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The chief purpose of this publication is to distribute information on aeronautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation.

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GREETINGS FROM THE CHIEF OF THE AIR CORPS

1. On July 29, 1939, we celebrate the thirtieth anniversary of Army Aviation. Thirty years ago on that day the Army bought its first airplane the first military airplane in the world. Nineteen-thirty-nine, then, writes "finis" to the first chapter, a chapter of accomplishment of which all you officers, enlisted men and civilian employees of the Air Corps who have made it possible should be proud.

2. All of us must appreach this new chapter, however, with a full realization that we have only begun. Competition throughout the world for air supremacy daily becomes keener. We must not fall behind as the race becomes sterner. To keep abreast of this sterner competition, team play and unanimity of purpose and action are more necessary than ever. The year nineteen-thirty-nine may prove a momentous one in Air Corps history.

3. May I give you then this greeting for the coming year. Let us march together, moving forward on a single, united front to our objective, a more effective air force for our national defense.

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H. H. ARNOLD, Major General, Air Corps. Chief of the Air Corps.

DROP-TESTING PARACHUTES AT RANDOLPHFIELD

The Parachute Department at the Air Corps Primary Flying School, Randolph Field, Texas, is manned by a complement of twelve men operating from two sepa-rate establishments - one on the Primary and the other on the Basic Stage. The two departments have their separate organizations and operate as distinct units coordinated by the Post Parachute Officer through Staff Sergeant Wilbur Lage, who exercises supervisory control over both departments. Each department is outfitted with identical equipment, floor space and drying facilities.

A total of 615 parachutes is cared for at the present time, this requiring the daily repacking of approximately ten 'chutes and the monthly drop-testing of slightly over fifty.

As a result of the past year's in-crease in the number of flying personnel, both student and permanent, and a not commensurate increase in the number of parachutes, the post is rather badly handicapped for parachute equipment at this date.

Whereas formerly each Cadet was issued an individual parachute, it has become necessary to ration out chutes to each flight, which then operates a pool for the Cadets! use. A certain amount of confusion is inevitable and considerable detail work and responsibility is given to the flight dispatchers in connection with the storing of the 'chutes when not in use and with accounting for each one as issued and received from the students for each individual flight.

The present system is working out with reasonable success, however, although resulting in greater wear and tear on equipment due to increased handling, strains arising from mis-fits, inade-quate storage facilities in hangars and, incidentally, nearly triple the use per 'chute than formerly encountered.

Randolph Field has a total of 21 jumps in its history, but the rate has been falling off lately. In the year since September, 1937, there has been only one jump, and that arose from a misunderstanding between pilot and passenger. It seems the enlisted passenger, with little flying experience, heard the pilot of the B-10 call the control tower on the radio, and being somewhat lonely and apprehensive out in the front gunner's cockpit, decided not to take any chances with an airplane out of control (the only word he heard) and forthwith made his exit from about 2,000 feet. -----

Twenty airplanes of the 94th Pursuit Squadron, Selfridge Field, Mich., flew to Langley Field, Va., recently to wit-ness a bombing demonstration.

RANDOLPH FIELD FLOODLIGHTS MOVED

The War Department has advised that \$2,000.00 will be allotted for the move-ment of the Northwest Flood Light in-stallation at Randolph Field to allotted for tion where they will not constitute for menace to taxying aircraft and yet for the dequate illumination for that for the dequate illumination for the for the deguate illumination for the for the form the building area will be for the deguate in the former for the deguate is a completely surfaced for area, clear of obstacles, on which yis i iting aircraft may be maneuvered to and from this hangar. On December 9th, specifications and

On December 9th, specifications and is blueprints furnished by the Material Division were turned over to Captain E.V. Dunstan, Questan E.V. Dunstan, Quartermaster Comparison will advertise for bids and property in the contract for the relocation will the sight lighting installation following v. the award, which will be made by the la rifles on the Quartermaster General. Country Cl

Notice was received from the morks id Progress Administration of the Jable course tion of Federal funds to the anomal jon tion of rederal funds to the anomat jer \$6,575.00 for waterproofing, fainthigh glazing and performing incidentable and 993 appurtement work on buildings as Ran 46 My dolph Field. The project regulate 3the of contribution of \$1,560.00 by the spondor for materials, transportation; stepsilor principal item in the project della for the painting of doors and steel sach 9612 tan hangars, seven having been dolla sted ten hangars, seven having been celle ted under a previous W.P.A. project 21 dedi 10 dedi ------

flight train.

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GLOSSARY OF FLYING CADET TERMINOLOGY By the Randolph Field Correspondent

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-evon end it Presented here is the first of a se-ries of artracts from a mythical com-pendium of Flying Cadet Phraseology. At Randblud Field, although the Flying Ca-det Datachment does not have the back-ground of generations of students as has the United States Military Academy, a true asprit d'corps has been built up and is continuing to grow daily. The language of the Cadets is dotted with Highly colorful expressions, new ones pethe added as the occasion arises. If is the purpose of this and subsequent extracts to keep the Air Corps in gener-al abreast of the latest phraseology, terminology, etc., for "It's the slang of today that's accepted tomorrow." Homing chewice -- A furlough or leave

Homing hevice -- A furlough or leave of absence.

Bit Ho! Silver! -- Used by mail orderly to immidunce collection of mail. Black Wednesday -- Calesthenics with rifles on that day.

Country Club -- Randolph Field. Bigd hagging -- When a lower classman dances with an upper classman's date. Get lager -- To strive to the utmost. Rate daily of lint that suddenly

appears on the floor; most noticeable when magadet is standing at attention during an inspection of quarters.

Spin ha - Go to bed, or take a nap. Rate of - To leave at a high rate of

Specifics: Ise Raugany Tr A name applied to anything that is dirty or in bad shape. Wash out --- To be eliminated from

flight training, or one who has been eliminsted from the Cadet Detachment. Washing Machine -- The Flight Command-er's Airplane. The first thost -- The Stage Commander's airplane of a named because it's the last plane one rides in before being washed out

plane one pides in before being washed out. Fush Button Pilots -- Those cadets who are assigned to Flights using PT-13's or PT-11's for training, as differentiated from those padets who train on the more elderly PT 3's. The PT-3's are consider-ed the more difficult. High Pockets -- Any Cadet in "A" Company Toda The "B" Company Cadets. "Bolt in your flaps" -- Stop talking. Signs report -- A letter from a Cadet's pirt friend. "Massing" -- Come here. "Minter" -- The name every Cadet is known by from the day he arrives at Randolma, flaid. "Minter" -- The series dealing with Flying Cadet hypepology. Solve the sentence belowicesimm. "Minter mail birddogeing and roll wo

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Mister Guit birddogging and roll up

your flaps. Let's take off for the Country Club, because we're not push button pilots, and are liable to wind up in the washing machine if we don't spin in early."

ARTILLERY ADJUSTMENT TRAINING AT KELLY

The Observation Section, Air Corps Advanced Flying School, Kelly Field, Texas, completed its customary training in artillery adjustment on December 9th. All of the 24 students undergoing instruction with this Section participated and received this valuable training.

The instruction was in direct charge of Captain Russell E. Randall, Air Corps, the Section Chief, and was held on the Stanley Reservation where the actual firing was conducted from Decem-ber 6th to 9th, inclusive. The Observation students operated from the Camp Bullis landing field. Splendid cooperation and assistance was given whole-heartedly by the officers and men of the 15th Field Artillery, which contrib-uted in a large measure toward the suc-cess of the mission. A total of 192 rounds of smoke shell and 1320 rounds of H F shell messer

and 1320 rounds of H.E. shell was expended in giving the Observation students adequate experience in this most important phase of their training.

PILOT "SCENTS" LANDING GEAR TROUBLE

Lieut. J.A. Morris, Air Corps, of the 79th Pursuit Squadron, was about 200 miles from his home station, Barksdale Field, La., enroute to Wichita, Kanas, when he detected the odor of hydraulic fluid in the inclosed cockpit. He immediately tried to extend his landing gear and found that the wheels remained In their retracted position, Lieut. Morris then correctly assumed that a hydraulic fluid line was broken.

There being no question about a "belly landing," the pilot returned to Barksdale Field, and he landed "wheels up." The propeller was damaged beyond repair, but otherwise the airplane escaped further damage save for a few bent cowlings.

The Curtiss airplane factory is fur-nishing new fittings for the hydraulic system which will eliminate the possibility of further accidents of this nature.

During the month of November the Engin-eering Department of the San Antonio Air Depot, Duncan Field, Texas, overhauled 1 airplanes and 99 engines, and repaired a total of 33 airplanes and 8 engines.

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ACTIVITIES OF LANGLEY FIELD PURSUITERS

The main body of the 33rd Pursuit Squadron, Langley Field, Va., is now engaged in gunnery qualifications at Valparaiso, Florida. A flight of ten PB-2A's, led by Major Russell L. Maughan, finally took off from Langley Field on the afternoon of December 5th, after being held up for two days by threatening weather along the route. Three other pilots; Captain Lane, Medical Corps, and twentyfour enlisted men accompanied the flight in a C-33 and a B-18. So rough was the air during the latter's flight that rumor reports only a few of the hardier men escaped the blight of air sickness.

The fledglings, who reported from the October class of the Air Corps Training Center, were left behind to continue familiarization work. Augmented by the arrival on December 5th of 2nd Lieut. C.O. Moffett, Air Reserve, who was detained at the Kelly Field hospital due to illness, this group has been "checking off" in the BC-1, under the direction of Captain Bodle.

The entire Squadron is eagerly awaiting the P-36A's, delivery of which was promised during December.

Once more the 35th Pursuit Squadron returned to Langley Field, this time from the gunnery camp at Valparaiso, Florida, where its "Warriors" qualified in aerial gunnery - yea, and they did it, for everyone qualified as "expert."

The selection by the 36th Pursuit Squadron of the range for tow target firing, just south of Virginia Beach, Va., proved to be a bad idea for the early part of December. No sconer had the firing started when the more enthusisstic game sportsmen of the outfit, spying the thousands of wild ducks floating leisurely and unmolested in the back bay below them, contracted the hunting fever. They could hardly wait to get back on the ground to gather their "shootin" irons" and shove off for the wilds of the North Carolina swamps.

DROUGHT CONTINUES AT RANDOLPH FIELD

The extended drought, which started in June, 1938, continues unabated at Randolph Field. Student training, while it has not been curtailed by the extreme lack of rain, has at least been made unpleasant, instructors on both Primary and Basic stages claim. Clouds of dust hang like a pall over all of the five auxiliary fields now in use, and when a group of instructors are on the ground, grading students on their accuracy landings, many approaches go unnoticed, due to the poor vision horizontally. Beginning with June every month exe

Beginning with June, every month except July has had less than the normal rainfall, and most of these months have had less than half the usual amount. During July, a total of 4. Geographics of rain fell, but since almost Geographics of this fell in one day, the remainder of the month was arid in the fertredeen Despite this dry spell, however effect training has gone forward by Aleens the bounds. The present class of othe Orningry Stage passed the 40-hour wark before the Christmas holidays started, tendoon the Basic Stage the class was supplied. ing the 80-hour mark. With the risual course on the Primary Stage liss state long spell of weather interfered the classes will finish their training the classes will finish their training the course on the Primary Stage liss state classes will finish their training the classes the class was expected the classes will finish their training the classes will finish their training the classes the class was expected the classes of the schedule.

RANDOLPH FIELD A FAIRYLAND OTSEIGHTSOl DURING CHRISTMAS. and sid abam

Dominated by its massive Admindetsei tion Building, an architecturil, gendeuring the day, Randolph Field Schmassed veritable fairyland of lights Schmassed the Christmas season nights. Concerted 1933 flood lights illuminate the Schwarz flood tower, enhancing the beauty of an chas ready highly praised creation of a schitectural perfection. Near the pinnasse of the building rows of Christmas these of the building rows of Christmas these thave been placed, the general appearance being that of a gigantic Christmas these. To further this theme, the powerful the volving beacon on the peak clasting building appears as the star of Bethlybergo blinking its message of the bodd up of the season.

Other public buildings of the mistio the Station Hospital, Air Corps marked houses, each of the six enlight? free for barracks and, finally, the officering quarters, all are gaily illuminatistic quarters, all are gaily illuminatistic both inside and out. Randokpty The Infihas numerous evergreen trees around the starious buildings, and there are being!) used as Christmas trees. igils ago Santa Claus arrived from the state of the state of the first state of the christmas, making his first state of the first hole on the afternoon of the first state this vantage point he summoned all mine children of Randolph Field to the parties presented with individual gif the subject has ago in the arrangements anoise in a support charge of the arrangements anoise in the support charge of the arrangements anoise in the support charge of the arrangements anoise in the support the support in the support in the support of the support charge of the arrangements anoise in the support of the supeometry of the super

Lieut. Colonel Clinton W. durser O. Air Corps, has been relieved from distribution and duty at Hamilton Field. Carry Stand detailed as a member of the General Staff Corps and assigned to the War⁹ Department General Staff, effective Jahuary 4, 1939. Colonel Russell⁹ B Staff Chief of Staff, Washington, M.C. Mon Chief of Staff, Washington, M.C.

SONS OF ARMY OFFICERS UNDERGO FLYING TRAINING

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Included in the membership of the present class undergoing instruction at the Air Cerps Advanced Flying School at Kelly Field, Texas, is Flying Cadet Clarence Leonard Tinker, Jr., 22, a student in the Pursuit Section, who is the son of Colonel Clarence L. Tinker, Air Corps, U.S. Army.

Cadet Tinker, who reported at Kelly Field last October, upon graduation from the Air Corps Primary Flying School at the West Point of the Air," was born at Schofield Barracks, Oahu, T.H., while his father was serving with the Infantry at that foreign service outpost. He : ceived his education at the Riverside He re-Junior College, Marin Junior College, and George Washington University, and while at the latter institution was affiliated for ayear with its ROTC unit. Prior to his appointment as a Flying Cadet, he made his home with his parents at Washington, D.C., where his father, Colonel Tinker, is on duty with the National Guard Bareau of the War Department. Colonel Tinker, who first entered the Bervice as a member of the Philippine Constabulary in 1908, was appointed a second lieutenant of Infantry, April 24, 1912. He was promoted to First Lieuten-and on July 1, 1916; to Captain, May 15, 1917; to Major, July 1, 1920, and trans-ferred to the Air Service on November 25, 1921; He was appointed Lieut Col 25, 1921, He was appointed Lieut. Col. (temporary), March 2, 1935, and received his permanent appointment in that grade on August 1, 1935. He was promoted to his grassent grade on August 26, 1936, and was detailed to duty in the Office of the Chief of the National Guard Burean of the War Department on December 17, 1936. He is a graduate of the Air Service Pilots' School (1921), the Air Service Observation School (1921), the Air Service Tactical School (1925), and the Command and General Staff School (1926) the is on the General Staff 1926) He is on the General Staff Corps Eligible List, and holds the aero-nautical ratings of Military Airplane Pilet and Airplane Observer. He is also the pessessor of the Soldier's Medal, which was awarded him in 1936 for heroism displayed in rescuing a fellow offi-

cer from a burning airplane. Flying Gadet Tinker, who expects to graduate from the Air Corps Training Center on February 15, 1939, has great aspirations of following in the footsteps of his illustrious father.

One of the prominent students now undergoing instruction at the Advanced Flying School, Kelly Field, is Flying Cadet John Huie de Russy, who is a member of the Attack Section and who is descended from a long line of military men. Cadet de Russy's father, Major Rene Edward de Russy, Quartermaster Corps, is now on duty in the Quartermaster Gener-

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al's Office, Washington, D.C. Before being commissioned in the Regular Army, Major de Russy served with the 71st Infantry, National Guard of New York, and accompanied that regiment to Santiago, Cuba, in April, 1898, when it was mustered into the Federal service. He entered the second Officers' Training Camp at Fort Myer, Va., and was commissioned 1st Lieutenant, Coast Artillery Corps, in 1917, serving with the 74th Coast Artillery in France.

Major de Russy is the son of Colonel R.E. de Russy, who was commissioned a Second Lieutenant of Infantry in 1862, and served with distinction throughout the Civil War and in several Indian campaigns. He was discharged for physical disability in 1886.

campaigns. He was discharged for physical disability in 1886. Colonel R.E. de Russy was the son of General R.E. de Russy was the son of this military family. General de Russy was graduated from the U.S. Military Academy in 1812, and was commissioned a Second Lieutenant of Engineers. He served with distinction through the War of 1812, the Mexican War, and the Civil War. He rose to the grade of Brigadier General and Chief of Engineers. He died in 1865, having been on active duty in the service of his country for 63 years. He served as Adjutant and Superintendent of the U.S. Military Academy, and as Chief of Engineers, during his career. Fort de Russy, the beautiful Coast Artilfery post in Kalia, Waikiki, in Honolulu. T.H. is named in his honor

and as Unlef of Engineers, during his career. Fort de Russy, the beautiful Coast Artilfery post in Kalia, Waikiki, in Honolulu, T.H., is named in his honor Cadet de Russy, who expects to graduate from the Advanced Flying School on February 15, 1939, was born in Baltimore, Md. He attended the University of Hawaii in 1932-1933, and the U.S. Military Academy in 1936-1937. He had prior service as an enlisted man, having served as Private in the 27th U.S. Infantry (Wolfhounds) at Schofield Barracks, T.H., from July, 1934, to June, 1935. He graduated from the Air Corps Primary Flying School, Randolph Field, last October, when he reported at Kelly Field for advanced training.

Upon successful completion of his course of instruction at the Air Corps Training Center, when he will receive his wings as Airplane Pilot and his commission as Second Lieutenant in the Air Corps Reserve, Cadet de Russy has aspirations of following in the footsteps of his illustrious great-grandfather as a commissioned officer in the Regular Army.

Approximately 50 airplanes and officers of the 1st Pursuit Group, Selfridge Field Mich., were led in flight, under the command of Major Lawrence P. Hickey, to Langley Field, Va., on December 13th, to witness a bombing exhibition.

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FLYING CADET'S REPORT ON AIRCRAFT ACCIDENT

A student of the Pursuit Section, ACAFS, who was involved in an aircraft accident recently while on a student navigation training flight, was instructed by his Chief of Section to write a report on his

accident. The student reported as follows: "Sir, the weather was cold and between Kelly Field and Tyler I lost my pipe. The P-12, as you probably know, Sir, is a very drafty airplane and rather cramped

to fly in. I tell you of this, Sir, in hopes of establishing my mental condition immediately proceding my unfortunate accident.

I sighted Oklahoma City and shortly following, the airport. I turned a little south so as to give myself a little more time to look over the field. Finally, I saw the wind sock and it was parallel to the Northwest-Southeast runway. with the small end of the sock to the Northeast. Being on the East side of the field I cut the gun and turned to land. All was well. I continued my glide and cautioned myself against going to slow and then settled down to the business of landing.

Am I going to clear that runway? Ah! I just will---thats fine---now easy does it-easy-easy...Ah! Down! Well, I'm glad that trip's over. Right there, Sir, made my mistake. I had finished flying and the ship hadn't. She started to the right and not being on my toes I applied too much correction. Around to the left I went. First the wing tip, then she kind of hopped and the wheel gave way with a sad crunching sound. The motor was still running so I turned off the gas, cut the switch and pushed the throttle forward and got out. Cars began to arrive, nobody paid much attention to me they were all around in front looking at the ship. I walked around to see how it looked. It sure was a sorry sight. Lt. Bundy reminded me of the Form 1 so I filled it out and went back to the line.

These ground loops are caused mostly by the location of your head. There are several secondary things that can cause them. First and most important is to be on your toes. When you get your tail down it gives you a false sense of security. Right then is when you start having trouble. Observing the direction of the wind is also very important. Landing into the wind is considered the best form. Next your choice of the place to land. When landing with a tail skid it is best to stay off the runway. If it has been raining in the past few days it is better to land on a higher part of the field. There is one school of thought that suggests pouring the coal to her when she

starts around. Personally the uppermost thing in my mind was to stop rolling. All of these things can be accume oted

with my first statement on the Location of your head so I figure it as nest most important method of preventing ground the . loops." signment is -----

MANY WEEK END VISITORS AT Litte nitwork Shirt States and Shirt Shir

John F. Wadu

Kelly Field, the venerable hous of an the Air Corps Advanced Flying School of usually plays host to many visitingdir Corps personnel, particulariyobyst week ends, when former "Grads" and staerson while on routine training navigusion mi flights head for San Antonio to tisit old friends and haunts in the elty.eta where "The Sunshine Spends the Winter"

Last week end (Dec. 16-19), where an usual crowded and busy one for mechanic ics and the like at Kelly. Insaldidion to the regular crowd of visitings planets from all points of the compassion thereas descended upon the old airdrome several flights of bombers from Hamilton, Chain nute and Langley Fields. A flight of J seven B-18's, Captain Julius of Fleet Commanding, arrived from Hamilton Bleid on December 17th and included a oral of twenty-three officers and entrated then. Another flight of two B-18 state bred on December 16th from Langley field with Major W.C. Goldsborough, commanding of and included a crew of fifteen afficers and enlisted men, who came down to good old San Antonio to bask is the sunshine and otherwise enfort the salub-rious climate. Another B-18 with salub-so the salub salue of salue salub-set away from its base to escape with salub-linois, arrived from Chantto Fisters pilot; Lieut. Williams, co-pilot salue salue also carried Colonel Cousing Major salue also carried Colonel Cousing Major salue also salue the salue salue salue salue salue salue pilot; Lieut. Musgrave and salue salue salue salue find out base By noon of December 19th; salue planes twenty-three officers and entrated wen.

By noon of December 19th; all planes and crevs were headed for home hand 5.6 Kelly Field was once again happy to to have played host to these as well and other groups of visitors top makers to to mention. Scoticn for

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Aerial gunnery practice has been been in the article by the 27th Pursultismadron. Selfridge Field, Mich. This is the their Squadron's first experience in first on aerial targets with its Part distri-planes and, says the News Intere Corr respondent, "we find it very different from the older type airplanes. They and

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KELLY FIELD FLYING CADET OFFICERS By the News Letter Correspondent

bEschmabss of Flying Cadets reporting at the dip Corps Advanced Flying School atithe Air Corps Advanced Flying School formtraining is supervised by a permanent Air Corps Afficer, who is the Commandant of the Flying Cadets. This important as-signment is now ably filled by Captain John F. Wadman, Air Corps. To assist him with details, Captain Wadman has a staff consisting of permanent commissioned and enlisted Air Corps personnel, and Flying Cadets from the class itself. These Fly-ing Cadets, who are especially selected for the ff Sutstanding qualifications, such Sat Satisfies, military service, abil-ity is detain, military bearing and nearness and personality, are announced neatness and personality, are announced in ardersifer the assignments and given theisitles of Cadet Captain and Lieuten-ants. of They perform duties within the Cadet. Unit, which their corresponding rank normally calls for. The Flying Cadet of-Titlers of the present class are Robert Divide mater Lieutenant). John Hule de Ticers of the present class are Robert Dight (Sadet Lieutenant), John Huie de Russy (Cadet Lieutenant), Thomas Fletcher, Jans (Cadet Captain), and Roy William Gustanson (Cadet Lieutenant). They have held these responsible positions since their assignment to the Basic Stage at the Air Corps Primary Flying School, and the added experience gained should serve their bod stead when they receive their permanent assignments. their permanent assignments. Gadet Captain Fletcher, 25, the senior Hyring Gadet officer, is from Scott,Ark., the Feeldence of his parents - Mr. and Mns: Thomas Fletcher, Sr. Fletcher grad-uated from Princeton University in June, 1934, 1914 an A.B. degree. He now holds a completion as 1st Lleutenant, Field Artillery Reserve, and is assigned to the Observation Section for training. "Meanington, D.C., the residence of his parents? Major and Mrs. Rene Edward de Russy, 2 Major de Russy is on duty in the Office of the Quartermaster General, War Department de Russy is named, attend-ed the Major of General R.E. de Russy, for them Fort de Russy is named, attend-ed the Whitersity of Hawaii in 1932-33, and the United States Military Academy at Mast Point in 1936-37. Cadet deRussy had had prior enlisted service as a mem-ber of the forma 27th U.S. Inferty their permanent assignments. had had prior enlisted service as a member of the famous 27th U.S. Infantry (Wolfhounds), with station at Schofield Barraous, H.H., from July, 1934, to June, 1935. He is now assigned to the Attack

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1935. He is now assigned to the Attack Section for training. Cadet Lieutenant Dick, 24, is from Tulses Okashoma. His father - Eldon J. Dickthampaides there. Dick attended the University of Tulsa in 1932-33, and the University of Cincinnati in 1933-37, gradiating from the latter institution with a Sachalor of Science degree in Martinautical Engineering. He has had one year adjudy with the 180th Infantry, Oklahoma National Guard; four years of ROTC work at the University of Cincinnati; and now holds a commission as second lieutenant in the Coast Artillery Corps Reserve. He is assigned to the Pursuit Section for training.

the Pursuit Section for training. Cadet Lieutenant Gustafson, 26, is from Seattle, Washington, where his parents, Mr. and Mrs. Henry Gustafson, reside. He graduated from the University of Washington in April, 1935, with a B.S. degree in Aeronautical Engineering. He has had four years of Naval ROTC work at the University of Washington, and until quite recently held a commission as Ensign (Class DV-G), United States Naval Reserve, which he resigned in order to become eligible for appointment as 2nd Lieutenant, Air Corps Reserve, upon the completion of his course of instruction at the Air Corps Advanced Flying School. He is assigned to the Observation Section for training.

Upon graduation, these young men will receive their "wings," the rating of "Airplane Filot," and will be commission ed as second lieutenants, Air Corps Reserve, and placed on extended active duty with tactical units of the Air Corps, where they will also have the opportunity to qualify for commissions in the Regular Army as vacancies occur. Graduation Exercises for this Class (39-A), the largest one in the history of the Air Corps Training Center, and consisting of four Regular Army officers, six National Guard officers, and 166 Flying Cadets - present strength will be held at Kelly Field, Texas, on Wednesday, February 15, 1939.

LIEUTENANT MACKEY COMPLETES REFRESHER COURSE

By the Kelly Field Correspondent

Second Lieut. Joseph Creighton Mackey. Air Reserve, who has been a student at the Air Corps Advanced Flying School, Kelly Field, Texas, since November 25, 1938, undergoing a refresher course of instruction for Air Corps Reserve officers (non-graduates of the Air Corps Training Center), successfully completed the course on December 23, 1938, with ten other classmates. He is being retained at Kelly Field for duty as a Flying Instructor at the Advanced Flying School.

ing School. Lieut. Mackey, who is 29 years of age, married, and whose home is in Columbus, Ohio, has had a very interesting and varied career in aeronautics, as evidenced by his many accomplish-

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ments. He has been most prominent as an air show and racing pilot, as well as flying instructor (commercial) sky writer and author

In May, 1936, he represented the United States in the Acrobatic Exhibition, held in Paris, France, and in December, 1936, he won the Freddie Lund Trophy for Acrobatics at a competition held at Miami, Florida - an invitational affair, partic-ipated in by five of the best known acro-batic pilots in the United States.

Lieut. Mackey was a team-mate of Colonel Roscoe Turner in both the Bendix Trophy Race (Los Angeles to Cleveland) in September, 1937, and the Thompson Trophy Race (at Cleveland) in September, 1938. He was leading the Bendix race when he was forced to drop out at St. Louis, due to engine trouble, his average speed out being 265 miles per hour. In the Thomp-son Trophy Race he placed fifth with an average speed of 247 miles per hour for In the Thomp-300 miles (30-mile course - ten laps), for which he was awarded a cash prize of \$1800.00. He piloted a Weddell-Williams monoplane, powered with a 500 horsepower Pratt & Whitney "Hornet" engine, in both races,

This young officer, who has had over 2500 hours' flying time as pilot and who attended the Ohio State University (1925-1926), has participated in every major air show held in the United States during the past five years, at each one of which he exhibited his famous bag of aerial tricks. He has in his possession about 25 trophies of all descriptions which he won at intersectional as well as National Meets.

He is the author of two well-known beoks-"Acrobatics" and "Sky Writing" both published by the Athens Aircraft Directory of Athens, Ohio.

He was appointed 2nd Lieutenant, Air Corps Reserve, in August, 1932, from civillan life, and has had several short tours of active duty. While at Kelly Field, he was assigned to the Pursuit Section for training.

FLEDGLINGS HOPEFUL OF EMULATING BROTHERS By the Kelly Field Correspondent

Four Flying Cadets, now undergoing in-struction at the Air Corps Advanced Flying School, Kelly Field, have brothers in the Air Corps and Air Reserve, and they are looking forward to their graduation from the Air Corps Training Cen-ter on February 15, 1939, when they can join their older brothers, who are serv-ing with Air Corps units at widely sep-arated stations. These Cadets are Frederick N. Philbrick of the Attack Section; and Marshall P. Camp, Gerhard J. Schriever, and Robert D. Van Auken, of the Pursuit Section.

Cadet Camp, 22, is from Arlington, Texas, where his mother - Mrs. Thomas J. Camp - resides. His brother, and Lieut. Wilbur D. Camp. Air Corper grad-uated from Kelly Field, in Rissustian-iation, on February 15, 1956 and shat now stationed at Barksdale FieldowLast Cadet Camp attended North Texas Agricultural College in 1935-37 baSHisaHilitary experience includes three of the Camps, 25 years with the Texas Mating Guard, and 15 years' ROTC work while a student at the North Texas Agrical tural College. Prior to his appointment as Flying Cadet, he held the posttion accountant.

Cadet Philbrick, 24, is from Brock-line, Massachusetts, the residence of his mother, Mrs. Elizabeth Manufalling & brick. His brother, 2nd Lieut, Hippi ard W. Philbrick, Air Reserve perguat-ed from Kelly Field, in Bombardment Av-iation, on June 16, 1938, and is now stationed at Mitchel Field dett Philbrick had no prior militarybadrybe upon his appointment as a Elying Cadet, being at that time employed and bre It was nece mechanic.

Cadet Schriever, 26, is from San Ar-tonio, Texas, where his nother water tonio, Texas, where his mother and Mass Elizabeth Schriever - resides. His brother, 2nd Lieut. Bernard Marsen iev-er, Air Corps, graduated from Merly f Field, in Bombardment Aviation, on Sine 29, 1933, and is now stationed at Han-ilton Field, Calif. Cadet Schrifever attended Texas AcM, St. Marv & Univer-sity, and the University of Sin Anton-io, intermittently during the Vers 1931-1938. He has had is years of ROTC work while a student at Texas AcM of Prior to his appointment as Anylog for det, he held the position of abetractor. Cadet Van Auken, 23, is from for caso, Illinois. His brother, 1st drawed for the student and the student at t

Illinois. His brother, 1st dieutonitan-lon H. Van Auken, Air Corps activitated from Kelly Field, in Pursuit Axiation, on October 12, 1929; and is and stand tioned at Randolph Field. His mother, Mrs. Howard R. Van Auken, residerent Fort Belvoir, Virginia, where another brother -1st Lieut. H. A. Wan Aukente Medical Corps - is stationed. Cadet Van Auken attended Guilford (1911) ere in 1933-35, and the General Motors Insti-tute in 1936-38. He had no proof ser-vice upon receiving his appointment as Flying Cadet, being engaged at the time in engineering training. In an article

in engineering training. Said Adiptronidit All four of these young hopeful emra bryo pilots reported at Kelly Fields in last October, upon graduation some the ir Corps Primary Flying School at Ran-Jolph Field. Upon successfule pomadetion of the course of instruction Atia the dir Corps Advanced Flying School (Continued on Page 10)

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AIR CORPS 4

AIR CORPS ACTIVITIES IN HAWAIIAN DEP'T.

"The Sound rom participated in the Joint Anti-Aircraft - Air Corps Eref Clse, held from November 5 to -1763 1938 Oand the results were highly "satisficatory. Returning to normal routime squadron personnel started looking Satward the holiday season.

-ingA askel -infleted Sombardment Squadron just completed Stranger of Bombardment Squadron just Antiskipperaft - Air Corps Exercise, 1938, add which was considered very successful. At this own the squadron is engaged in demonstration bombing, and it is stated that the squament section is really on the run.

-Moord flort Afred flort Afred

The both Reconnaissance Squadron was socalised upon to perform continuous suriveilignic fover two airports on Hawaii, and to track opposing forces of any size. It was necessary to plan on from seven -to nice theor missions to accomplish this, and buccessful results were obtained.

The new B-18 airplanes of the 50th and 4th Heconneissance Squadrons received their tactical baptism on November 1st, when the two Squadrons combined their forces for a day and night mission. As one setation, they conducted the Quarterly Load Test of Aircraft and made day and fight hombing attacks on objectives around Qahy

From November 19th to December 2nd, the th Recommands and the Squadron was engaged The denotify the bombing conducted by the Sthe BomBardment Group. All types of - using twice dropped, the weight of the demotify the domba varying from 100 to LHOO mounds. The targets used included PK are Gass hulls, slicks and other floating targets. This bombing was unique, incompation days it was the first time this Somedron days dropped demolition bombs since the wear 1934.

The month of November was a busy one for the Zord Bombardment Squadron. Upon the completion of the Joint Anti-Aircraft-Air completion of the Joint Anti-Aircraft-Air completion of the Joint Anti-Aircraftticipated in the 5th Bombardment Group Demolition Bombing Exercises. With bombing missions scheduled for the day and conpetitive tracking missions scheduled for each night, airplanes and crews have been pretty busy.

-Then Clatu Bombardment Squadron, Hickam Field 10 110 116 rehabilitation of the post, loons gain

recently completed one of the most important buildings on any post - a "Day Room." It is certainly a great improvement over the tent which was formerly used, declares the News Letter Correspondent. He adds that a number of pieces of new furniture have been obtained for the Day Room.

The 50th Reconnaissance Squadron settled down to normal operations on November 16th, after two weeks of strenuous exercises during the anti-aircraft maneuvers. From this Squadron's standpoint, the exercises were successful, and much valuable training was provided for its personnel.

for its personnel. Demolition bombing exercises commenced on November 21st, this Squadron being attached to the Headquarters and Headquarters Squadron, 5th Bombardment Group, for participation.

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NEW P-36's FOR 55TH PURSUIT SQUADRON

"Shuffle off to Buffalo" has been the theme song for all the ranking officers in the 55th Pursuit Squadron, Barksdale Field, La. Captain Nelson has made four trips; 1st Lieut. Sanders, three; and 1st Lieut. Saxton, one. The Squadron now has sixteen new P-36's, and it won't be long until each pilot in the Squadron will be an airplane commander.

Lieut. "Montana" Miller had his first experience as a "belly lander," when the pressure line on a P-36 broke as he tried to let the landing gear down for P landing at Oklahoma City, Okla. Very little damage was done to the plane, and no damage to "Montana."

The commissioned strength of the 55th Pursuit Squadron was increased by two Regular officers from the last graduating class of the Advanced Flying School at Kelly Field. These two officers, 2nd Lieuts. Ivan W. McElroy and Herold B. Wright, have completed their familiarization training on the P-36 and will be ready for full squadron duty when the holidays are over.

The enlisted strength of the 55th Pursuit Squadron has been materially increased since November 5th. From 64 men on that date it was brought up to 83 at the present writing. Sixteen of these new men in the Squadron have had previous service, and the other three are recruits.

Colonel Arthur S. Cowan, Signal Corps, who was identified with Army aviation in the early days and commanded the Signal Corps Aviation School, San Diego, Calif. in 1913, retired for age on April 14,'39 V-7933, A.C.

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BOMBING PRACTICE IN HAWAII

The News Letter Correspondent of the 5th Bombardment Group, Luke Field, T.H., reports that, after several years of fu-tile efforts to find suitable targets on which to drop live demolition bombs, this organization finally achieved success and has just completed a period of in-tensive bombing against a variety of water targets during which some 1,028 live bombs were expended. In addition to the regular allowance, fifty-two de-molition bombs, including 600, 1100 and 2000-pounders, were made available to Bombing was conducted on the Group eight days in accordance with a prearranged schedule.

Strange as it may seem, in this land of many islands, not one has been found that we can call our own as a bombing target, declares the News Letter Corres-Likewise, with all the miles pondent. of beach-line, not one foot has so far been obtainable for the placement of a water target for demokition bombs. As As a result, it was necessary to obtain targets which could be towed out to sea for use as aiming points. With the cooperation of the Transportation Section of With the cooperathe Department Quartermaster Depot, a vessel was made available to the Group, and with its assistance various targets were towed to the bombing area south of Oahu and cast adrift. Condemned flying Oahu and cast adriit. Oblight type boat hulls, a rectangular frame type target and a "sea serpent" type all were the type all were build at the serving success. The hulls furnished a good aiming point but were only good for a short period of bombing before being sunk. A frame type target before being sunk. made from a B-18 wing crate equipped with empty drums for additional flotation and covered with fabric had been built for use as a moored target for practice bombing. This was tried on day but found to be unsuitable. Due This was tried on one Due to its construction, it was difficult to tow out to the range and, as soon as the fabric was damaged by hits, was practically invisible.

As a last resort, the Materiel Section was called upon to design and build a target which could be towed out at a reasonable speed, could be seen without difficulty from bombing altitudes and which would stand up under demolition bombing. An additional requirement was that the target must be such that if broken up it would offer minimum hazard The result, designto surface vessels. ed and bailt with the cooperation of the Hawaiian Air Depot in about one and onehalf deys, resembles a monster of the deep. It consists of a steel cable about 100 fest in length, to which are attached at 3-foot intervals empty oil drums painted yellow. The assembly can be towed by one end, and when in position the ends fastened together. Its visibility is good, and it is practically immune to damage. On the last day of

bombing, direct hits with 2000-pound bombs caused the target to disapped Vfor 15 to 30 seconds. In spite of Ythe Stat would reappear, and was recovered on completion of the exercise. The Shily disadvantage of this type is that its does require the services of alloging vessel. This difficulty may be starcome by the use of condemned life staft sor flotation bags tied to a cable? STARS can be carried on the deck of a reday tively small boat and inflated justice-fore being cast adrift. With the stype a sea anchor would probably below below able to reduce drift if a limited area mary Fly was available for bombing. Results of the bembing have note that been tabulated, but it is believed that

they will be satisfactory, communications the limited recent bombing experiences fell by in the Group. ----000---von **toli**a

> dent at i Fledglings at Kelly Field egeq (Continued from Page 130 Fow nated km

they will be commissioned as sevened lieutenants in the Air Reserve, Tawarded their hard fought for "wings" as Alinplane Pilots, and ordered to extended active duty with tactical units of the Regular Army Air Corps, thereby taking their rightful place alongside that older brothers who, like themselves successfully completed the very laten-sive course of instruction given by Uncle Sam's very exacting Air 657941 190 ឧបល៍ទ Training Center.

-----Randolpo AIR CORPS CHIEF VISITS RANDOLPHAFIELD

Major General Henry H. Arnolouthief of the Air Corps, visited the frittery Flying School, Randolph Field, Texas, on December 10th, while enroute to Washington, D.C., from the West Coast. During the course of his informal inspection of the School, considerable time was spent in the Cadet Determinent area, particular attention better peid to the two new barracks under Construc-tion, the first of which will be con-pleted about March 10th, according to the contractor. the contractor.

Following the inspection, Veheral Arnold addressed the entire Studier Of-ficer Detachment. After welconing the officers to the Air Corps and The the ing, General Arnold reminisced of the ing, General Arnold reminisced of the early days of military aviation when, instead of the complicated instrument boards of the modern airpland, the only instrument was a piece of string aviach-ed to a strut. The string indfested, by its streamline, whether the pieces of olden days were flying straight, and level, climbing, gliding, of stringing. After remaining overnight as the guest of Brigadier General Barton K. Tourt, commanding the Training Center, General Arnold left for Bolling Field, D.C.

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bmog-0 TO IV STERAL DI SPATCHER STILL ON DUTY AT J PRIMARY FLYING SCHOOL.

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uc bais and Instructors may come and students and Instructors may go, but Sergeant Leonard stays on forever" is Sargeant Leonard stays on forever is a serieg on the Primary Stage at Randolph Field that is more truth than poetry. Sance September, 1923, more than 15 years sgo, the records of every student -opiled, Brriving with the hope of becom-oring angualified pilot, has passed through the wolfice of Sergeant Dale F. Leonard. Starting in the early days of the Pri-mary Flying School at Brooks Field, the weteran noncommissioned officer, who is weteran noncommissioned officer, who i tenow chief clerk on the Primery Stage, shapping more than 4,000 students come and go through the school. Many of the fell by the wayside, but almost every who is Many of them pilot now in the service, but almost every pilot now in the service, who was a stu-dent at Brooks or Randolph Fields, has a page in Sergeant Leonard's record book. Not one student in a hundred who grad-uated knows Sergeant Leonard personally, however, unless he has served with him after graduation, for only "Washouts" who report to the Stage House for their final ride with the Stage Commander have come in contact with him. The others Come in contact with him. The others who successfully completed the course may not know Sergeant Leonard, but he knows them for, in addition to handling shair records of various sorts, he sees the identification Boards covered with ight indual pictures almost daily, and this becomes accusinted with every one this becomes acquainted with every one of the 350 student pilots who report at Randolph Field three times each year. (1) Except for a short tour in Panama, Sergeant Leonard has been on duty con-1.0 timuously on the Primary Stage. He is (1) The short clerk on that Stage with a staff of 13 enlisted men. ----

JEBOU CLASS 39-A REACHES HALF-WAY MARK

eids refi-Jimmible present class now undergoing in-Batruction at the Air Corps Advanced Fly--Juring School, Kelly Field, Texas, has resolved its half-way mark in the course of instruction at this School, with satisfactory progress by all sections in both flying and ground school instruc-

hoth flying and ground school instruc-i) the structure of the subsended from Friday. All the craining was suspended from Friday. All the crain of the subsended from Friday. All the subsended for the subsended for the subsended of the subsended of the subsended of the subsended for the subsended

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KELLY FIELD VISITED BY COLD SNAP

On the morning of December 15th, Kelly Field residents awakened with the shivers, and one and all began to stir around and "take readings" of available thermometers. These registered this year's low of 22 freezing degrees. In downtown San Antonio (where the Sunshine cowntown san antonio (where the Sunshine Spends the Winter), the more fortunate residents of that fair city enjoyed more or less balmy weather of a mere 33 de-grees. As a result of this "freak" cli-matic condition, an unbelieving local press alternately described it in its columns as "unusual" and "phenomenon." In one of the city's newspapers, Mr. J Jarboe, local United States Meteorolo-J.H.

Jarboe, local United States Meteorolo-gist was quoted as saying that this freak and unusual "phenomenon" was caus-ed by "rapid radiation." According to the Kelly Field Correspon dent, what Mr. Jarboe had to say on the subject may be so, but it was mighty cold regardless, and all the personnel living on the field in the old, war-time, temporary quarters didn't need to read the articles appearing in the local press to learn about the said "phenome-non." All they knew and were concerned about was that there was no "radiation" present - but cold, YES! All concerned trust that the new quar-ters which are now being built at Kelly

ters which are now being built at Kelly Field will be completed before next winter so that they may afford the garrison a measure of protection against the vagaries of the "unusual" a la Los Angeles weather just experienced, as well as the annoying dust condition obtaining due to a seven month long Grade drought.

AERIAL GUNNERY PRACTICE FOR PURSUITERS

The 94th Pursuit Squadron, 1st Pursuit Group, Selfridge Field, Mich., started making preparations to leave on January 5th for Valparaiso, Florida, for gunnery practice, which is slated to continue until about March 1, 1939.

The advance echelon, consisting of eight trucks and one ambulance, transporting 110 men under the command of 2nd Lieut. Charles W. Stark, Jr., Air Corps, was scheduled to move toward Valparaiso on Jamary 2nd. Thirty P-35 and P-36A Pursuit planes were to proceed to Valpa-raiso on the same date, while four P-36A's are to remain home for Winter Test Exercises. The remainder of the lst Pursuit Group squadrons, consisting of the 17th, 27th and Headquarters Squadrons, will send flights at separate designated periods for attachment to the 94th Squadron. -000--

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THE ACHIEVEMENTS OF THE FLYING FORTRESS Submitted by 1st Lieut. D.M. Kilpatrick, Air C

The B-17 Flying Fortress is today universally regarded throughout the Air Gorps as a marvelously efficient bomberement airplane, and the once loud manufactes of pessimistic critics are emspicious by their absence. Some of the glib announcements of these prophets of doom were that the Flying Fortress was too much airplane for any but superpilots; that it could not be operated except from manmoth airdromes and under perfect conditions; that it couldn't be kept in commission; and that it would have a high accident rate.

We, of the Second Bombardment Group, take such pride in the achievements of our Flying Fortresses that we gladly run the risk of boring the readers of the Air Corps News Letter with a few statistics and historical facts.

The first B-17 was delivered on March 1, 1937, and the 12th B-17 on August 5, 1937. As of December 1st, these 12 airplanes have flown 9,293 hours over land and sea, in summer and winter, in fog and ice, and even in good weather on occasions. This total of hours corresponds to over 1,800,000 miles of flight, which is equal to 72 circumnavigations of the earth at the equator, or to about 122 circumnavigations of the earth on the route flown by Howard Hughes. Such a record proves that these airplanes can be and have been kept in commission a very large percentage of the time.

It is admitted that our accident rate has been high. So high, that out of the original 12 B-17's delivered to us, we have only 13 left. Furthermore, these airplanes are in as excellent flying condition today as they were when they rolled out of the Boeing Factory.

We likewise admit that we have not, as yet, operated from any cow pastures or cotton fields, but that we have landed and taken off from very ordinary airports with no trouble whatsoever. An examination of the following list of fields in which the Group Flagship, B-17 No. BB-10, had landed, will prove our contention that the B-17 airplane can operate from any field from which any other modern tactical airplane can operate:

Langley Field, Va. Municipal Airport, Miami, Fla. Randolph Field, Texas Fort Riley, Kans. Patterson Field, Ohio Fort Leavenworth, Kans. Mitchel Field, N.Y.

Hamilton Field, Calif. March Field, Calif.

ilpatrick, Air Corps	Capt. B.E.
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Sacramento, Calif.	Capt. C.E. Capt. F.H.
Coalinga, Calif. Sacramento, Calif. Bakersfield, Calif. Oakland, Calif.	- 14.12 - 14000 - 11.12 - 14000
Oakland, Calif.	
Seattle, Wash.	Of those
Newark, N.J.	the second se
- NATAWE STAR	folg D. Offol
Last Boston, Mass.	ton vasa ba
Brainard Field, Hartfo	ordge Sonnerit
Pope Field, N.C. Lowry Field, Denver, (Post Field, Fort Sill,	Major Bar
Lowry Field, Denver, (
Post field, fort Sill,	aisjoso
	-
Minneepolis, Minn.	Jaomor eW
Wright Field, Dayton, Santa Monica, Calif. Oklahoma City, Okla.	trati odil
Oklahoma City, Okla.	
Phoenix, Ariz.	hours and a
Scott Field. Ill.	The West-
Middletown Air Depot.	Aidul etomi.Pa.
El Paso, Texas	-VITOI DAL
Barkedela Field. LA.	BITI OUL
Biggs Field, Texas	Fla., to E
	all seturia
Lima, Peru	5036 miles_
Lima, Peru Buenos Aires, Argenti Santiago, Chile	lost in as
Albrook Field, C.Z.	The flig-
France Field, Panama,	Colombia. The inte
	SJNI 964
Aberdeen, Md.	about 650 The very
Orlando, Fla.	Joint Army
Tampa, Fla.	hours of f
Rocky Mount, N.C.	
Windlow Arte	an an an in the all
Bowman Field, Louisvi	1000Storioga
Our airplane commande	rstares and cle
Bowman Field, Louisvi Our airplane commande by seniority from all G except those whose gual	roup of Jacors,
xcept those whose qual	174 C4-1028 88

Our airplane commanders, are said cted by seniority from all Group of Acers, except those whose qualify Carlons, as staff officers require them, to function as such, and furthermore, every officer of the Group who attains the minimum required number of ypears and hours of flying experience is checked off on a B-17 at the first applet tunit; Our airplane commanders, at free to the rest of the group of the second terms of ter

Lt.Col.	Robert Olds 0 a tos 10	
Maj.	V.J.Meloy 181JIII (2) 51	
Maj.	H. L. Gootore Stoon 44 Mrs 62	
Maj.	C.V. Haynes date Judda 80	
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Cap .	A T A BALLER DBO BOLLER	
Capt.	C. D. ECDENIEL and along of	
Capt.	Se gan on Decension Decension	
Capt.	A.L. Harvey Mivig II 53	
Capt	D. H. ALKITO of the DI	
Capt.	N.B. Harding fitner 1 52	
Cant	F.J. Lauor antest 1.00	
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	E.R. McReynoland add gat	
Maj.	D WE ALL ST	
Capt.	B.W. Chidlew	
Capt.	J.S. Mills	
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lst Lt. E.L. Tucker lst Lt. W.H. Higgins Capt. R.E. Koon Capt. C.E. O'Connor Capt. F.H. Robinson Capt. R.F. Travis 1st Lt. C.E. LeMay 1st Lt. J.W. Egan lst Lt. W.A. Matheny lst Lt. W.C. Bentley lst Lt. F. E. Glantzbeng

Of those who have been transferred to other stations during this period, the following piomer B-17 pilots contribut-ed many noteworthy flights prior to their departure:

Major Barney M. Giles Major. John K. McDuffie

Captain Cornelius W. Cousland

Captain Archibald Y. Smith

We remember with pride the following achievements:

The East-West continental record by Lieut. Colonel Robert Olds of twelve

hours and fifty minutes. The West-East Continental record by . Butente Colonel Robert Olds of ten hours

and forty-six minutes. The flight of six B-17's from Miami, Fla., to Buenos Aires, Argentina, in two hops, with a total of 26 hours and 50 minutes flying time for the distance of 5036 miles. This time included time lost in assembly, landing and take-offs. The flight of three B-17's to Bogota,

Colombia, The interception of the liner REX about 650 miles from New York.

The very successful participation in Joint Army-Navy Exercise, requiring many hours of flight hundreds of miles at SAA.

The many hours of tactical operation above 20,000 feet in the recent Fort bedo Brage anti-aircraft exercise.

and the source and pride with Which we regard our Flying Fortresses. TOVO . eromre. -----attains the

ins also Lying Cader Detachment Notes nce is checked

Jinut Aunostical of the October class at the date forms Frimary Flying School, Randolph as the dig forms, have been fitted with the Of transers of the flying cadet uniform. a The initial issue consists of two pairs So of trousers and one blouse. To date Of about eighty blouses remain to delivered and about five pairs of trousers. Hope is was expressed that the initial issue of Flying Cadet uniforms would be completed a before the Christman holidays, which be-

All Flying Cadets are allowed furloughs during the Christmas holidays, which will during the Christmas holidays which will last until 6:50 p.m., January 2, 1939. Judging from the number of applications of furlough which had been submitted, And centions point to very few Flying Outers remaining at Randolph Field during the holidays.

MORE COMMENTS ON ARMY AERIAL PHOTOGRAPHY

Apropos of the rotaprint insert in the previous issue of the News Letter show-ing the reproduction of a photograph of an Army airplane in a banking position, and underneath same a guotation from the December issue of POPULAR AVIATION embedding the bits that Aviation embodying the hint that Army aerial photographers should display more sparkle in their "shots" of airplanes in flight, the following comment was re-ceived from POPULAR AVIATION:

"We are extremely well pleased to see that the Army Air Corps can take criti-cism in the light in which it is given. As you know, we have been so 'starved' for fine first-class aviation photographs that we have had to use an uncommon number of British pictures to adequately illustrate articles. There have been many times when we would have welcomed shots made by either Army or Navy photographers in this country. How-ever, you know exactly how much coopera-tion we have gotten along these lines in the past." POPULAR AVIATION expresses the hope that the comments new and emericanely

that the comments now and previously made on aerial photography will spur Air Corps photo sections into doing some-thing about the situation which will have the effect of "pepping up" aviation photographs. Its sister publication -POPULAR PHOTOGRAPHY - has expressed its willingness to pass on any advice or suggestions of a technical nature that might help Army photographers in making a better photographic showing to the public.

Class 39-4 Reaches Half-Way Mark (Continued from Page 11)

February 15, 1939, when graduation core-monies will be held at Kelly Field. The faculty of the Air Corps Advanced Flying School consists of the following Air Corps officers:

Commandant - Colonel Frank D. Lackland Assistant Commandant and Commandant of

Student Officers - Colonel E.H. Lohman Senior Flight Surgeon - Lieut, Colonel Lloyd W. Ballantyne, Medical Corps.

Secretary - Major Harvey W. Prosser. Director of Flying Training - Major

Isaiah Davies.

Director of Ground Training - Major Albert B. Pitts,

Bombardment Section - Major John V. Hart Obs. Section - Captain Russell E. Randall.

Pursuit Section - Captain Burton M. Hovey, Jr.

Attack Section - Captain Edgar R. Todd Commandant of Cadets Captain John F. Wadman

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Recently, in connection with cowl flap stops installed on A-17 and A-17A airplanes, the question of desired cylinder head temperatures during normal operation has arisen. Apparently some misinformation has become widely accepted to the effect that the minimum temperature for efficient operation is 200° C. Actually, 200° C. is too high for cruising temperatures. Desired temperatures should be from 140° to 180° C.

The reason for reducing the cylinder head temperatures below 200° C for cruising is not because of any difference in the efficiency of power of the engine, but to prolong the life of the cylinder head and to reduce the amount of carbon formation and sludging in the oil. There will be no measurable difference in power output of the engine, at the same r.p.m. and manifold pressure, with cylinder heads at 140° or 200° C. There is not enough difference in the temperatures of the internal parts of the engine to affect appreciably friction horsepower and, likewise, the temperature difference is not enough to cause noticeable difference in volumetric efficiencies. In other words, it makes little difference to the engine, as a power generating machine, whether its cylinder head temperatures are 140° C er 200° C, but it does make considerable difference with a number of individual parts. Obviously, cylinder head temperatures considerably below 140° C or considerably above 200° C would affect power.

Aluminum and most of its alloys have very poor high temperature characteristics. Their strength and fatigue properties drop off rapidly with an increase in temperature. For example, an aluminum casting will withstand 23,600 lbs./ min. (yield point, stabilized) at room temperature, but will withstand only 17,500 lbs./sg. in. when stabilized at 200° C. Similar values for 160° C. and 220° C are respectively 19,500 p.s.i. and 16,200 p.s.i. The drop in strength is not in direct proportion to temperature; it becomes more rapid at higher temperatures. As example, the decrease in strength in the 20° C rise between 200 to 220° C is 25 per cent greater than in a corresponding rise between 160° to 180° C. No actual values are available on the fatigue characteristics of aluminum castings at elevated temperatures. Experience indicates, however, that the fatigue limits will follow the same general trend as the tensil properties of specimens stabilized at elevated temperatures.

Commercial air line experience indicates that with normal cruising temperatures of 2000 and above, cylinder head plugs have ro ture to bury points. The plugs are ter

failures become much more frequent, thisn when the temperatures are held below 200° C. The longer the cylinder she in operation the greater becomes the frequency uency of failure. In some instances, in the interest of safety. HO per cont cylinder replacements were made after 1200 hours' operation.

cylinder replacements were made at terl200 hours' operation. Cylinder head temperatures in estimate of 200° C under some conditions must sof necessity, be accepted. In general two such temperatures in properly could installations will be of relatively short duration, such as during take off c finh and, in case of failure of an engine in multi-engined equipment, during operation these temperatures do affect the could inthese temperatures do affect the could inture that has the greatest effect. temperature in excess of that specified as maximum for take-off and clime for prolonged operation at that temperature will adversely affect the tensile affinder failure. Cylinder head temperatures in instruction

will all of the provided and the provide stalled in different airplanes in which the cooling in one has been satisfactory, and in the other unsatisfactory, non-est proved without question the introcase of difficulties to be expected in the intro-stallations that operate withouse them factory cooling.

The minimum cylinder head lemperatures, if ever specified, are principally forw the purpose of insuring that the spark -14- V-7933, A.C.

plugs have reached a high enough tempera- DISTINGUISHED VISITORS AT RANDOLPH FIEL ture to burn any accumulated oil off the points. The majority of present day plugs are termed "cold running," meaning that they are built to cool under adverse conditions of high power output, and therefore are not quite as efficient in the avoidance of fouling at very reduced termoratures Obviously too at very temperatures, temperatures. Obviously, too, at very low cylinder temperatures the oil on the cylinder walls would not flow freely and

gasket. The temperatures indicated by the spark plug thermocouples are usually less than the actual head temperatures which could only be recorded by more ac-curate thermocouple installations. This difference is recognized in choosing opstandard is in general satisfactory and provides a practical guide for safe operation.

In closing, it may be restated that the engine power output will not vary appreciably with cylinder head tempera-tures from 140° C to 200° C. Cylinder head temperatures of 200° C and above, if continuous, definitely reduce the op-erating life of the cylinder.

PUETLE HEART DECORATION FOR MARCH FIELD ENLISTED MAN.

t,

Sergeant James Barry, 8th Signal Ser-vice Company, March Field, Calif., re-ceived official notice recently that he ceived official notice recently that he will be awarded the Purple Heart on ac-count of a wound received in action, August 23, 1918, while serving as a pri-vate first class, Battery C, 108th Field Artillery. Sergenit Barry, in the face of heavy fire, rescued a wounded soldier. In ef-fecting the rescue he received a severe shoulder wound. Recently he has been recommended for the Soldier's Medal in commended for the soldier's Medal in

connection with heroic rescue work during the disastrous flood which swept over Southern California in March, 1937, -----

Under Special Orders of the War De-partment Special Orders of the War De-cent John Bollinger, of Base Headquar-ters and Second Air Base Squadron, Gen-eral Headquarters Air Force, is placed on the retired list at Mitchel Field, N.Y., Effective December 31, 1938, and will be sent to his home.

nes in which

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Randolph Field, Texas, the "West Point of the Air," received numerous distinguished visitors during the month of De-cember. Major General Henry H. Arnold, Chief of the Air Corps, dropped in for an overnight stay, which is described in detail elsewhere in this issue.

Two officers of the French Air Force, Colonel Paul J.J. Gama, newly appointed Commanding Officer of the Istres Air Training Center, France, and Lieut. Col Rene P.G. Weiser, French Air Attache in Washington, D.C., inspected the function ing of the Primary Flying School on De-cember 20th and 21st. A complete tour of both Primary and Basic Stages was ar-ranged by Brigadier General Barton K. Yount and Lieut. Colonel John B. Brooks. Commanding General of the Air Corps Training Center and Commanding Officer of Randolph Field, respectively.

Considerable interest was evinced by the visitors in the details of student training, the methods of instruction and the type of equipment used. Since the visitors spoke only French, Captain Donald B. Phillips, of Randolph Field, and Lieut. Joseph Conigliaro, Coast Ar-tillery Corps, a student officer at the Primary Flying School, acted as interpreters.

Congressman-elect Albert L. Vreeland, of the 11th New Jersey District, was another visitorat Randolph Field earlier in the month. He made a tour of the station, accompanied by General Yount and Colonel Brooks.

Another visitor was Brigadier General A.O. Seeman, Assistant Quartermaster General in Charge of Construction, who viewed the progress of construction of the two new Flying Cadet barracks which, according to the contract, will be com-pleted in the spring. General Seeman was accompanied by Captain E.V. Dunstan, Construction Quartermaster in this vicir. and Captain F.H. Kuhn, Randolph ity, Field Quartermaster Officer.

Senator Alberto Salinas y Carranza, of Mexico City, completed the list of dis-tinguished visitors for December. A preparatory schoolmate of Colonel Brooks at Manlius Academy, N.Y., during the years 1909-10-11, Senator Salinas y Carranza, shortly thereafter, went into aviation, taking his training at the old Hempstead, Long Island, N.Y., airdrome in 1912. After serving for several year as a Colonel in the Mexicon Army he way as a Colonel in the Mexican Army, he resigned his commission to become a senator

Cold weather service tests will be con-ducted at Selfridge Field and Oscoda. Mich., during January, on approximately 11 airplanes of various types. The tests will be conducted on newly developed equipment and standard aircraft equipmen Engineering and operating personnel will thus be familiarized with the problems involved in cold weather operation. -15-V-7933, ▲,C.

STATUS OF REFRESHER TRAINING OF AIR RESERVE OFFICERS.

Of the 19 Air Reserve officers undergoing the refresher training course at the Air Corps Advanced Flying School, Kelly Field, Texas, eleven were schedul-ed to complete same on December 23, 1938, and then be ordered to extended active duty with tactical units of the Air Corps. These officers, who are non-graduates of the Air Corps Training Cen-ter, are rated as "Airplane Pilots," and are:

and are:	Total
2nd Lieutenants	Flying Time
Armstrong, William C	1,000
Lakewood, Ohio	
Beckwith, James O., Jr.	2,500
Burlington, Vt.	2 200
Gibboney, Lawrence R.	2,700
Cincinnati, Ohio Hawkins, Walter L.	2,400
Oklahoma City, Okla.	2,100
Holmes, William W.	750
Mineral Wells, Texas	
Koster, Robert J.	1,600
Mt. Washington, Ohio	0 400
Langmack, Charles J.	2,400
Albany, Oregon	3 500
Mackey, Joseph C.	2,500
Columbus, Ohio McCurdy, Eugene	1,900
Quinton, Okla.	1,000
O'Quinn, Claud A.	700
Tifton, Ga.	
Postal, Frederick H.	700
Chicker 111	

Chicago, Ill. (Note: Lieuts. Armstrong, Hawkins and Mackey specialized in Pursuit Aviation and the remaining offi-cers in Attack Aviation. The

flying time is approximate.) The other eight Reserve second lieut-enants who are still undergoing training at Kelly Field (seven in Bombardment and one - Lewis M. Sanders - in Pursuit) are: Charles W. Maynard Alvin J.H. Mueller Luther E. Thomas Fred M. Morgan John A. Laird Lewis M. Sanders* Norman K. Warner wis M. Sanders* Luther E. Thomas rman K. Warner Cloyce J. Tippett *Sick at Station Hospital at Fort Sam Houston, Texas.

It is not known at this time when the above eight officers will complete the prescribed course.

The following Air Reserve officers reported at Kelly Field on December 19, 1938, for the advanced portion of the refresher course for Reserve officers: Second Lieuts. Don D. Cascio, Staten Island, N.Y. (700 hours) and John A.H. Miller, Coffeyville, Kansas (1600

hours.) ------

Major Charles M. Savage, Air Corps, has been relieved from duty at the Rockwell Air Depot, Coronado, Calif., and assign-ed to the 2nd Balloon Squadron at Fort Bragg, N.C.

CHARITY FAIR PROFIT MORE THAN HEZ 500.2

A profit of between \$7,500 and \$8,000 was foreseen for the Langley Field in was toreseen for the langley stelling of Charity Fair, held on December Side Srd and 4th, by officers of the Finance Com-mittee who are making a final report on the three-day event. They reported to that the receipts exceeded last year to Fair by \$2,000.

The expenses this year trebled those of the first Fair held last year subled those hangars were utilized instead of fire requiring increased arrangements, lighting and equipment. Although the 50,000 attendance was 10,000 above list year s, it was not as high as officials had and ticipated, because of the inclement of the Sildra weather. SORV

A large part of the expenses were at-tributed to the Charity Ball, which was held on December 3rd at the Langley of Field Gymnasium. This venture was said to have been one of the most impressive social affairs ever held on the for a solution of roi shot Peninsula.

Peninsula. Mayor James V. Bickford, of Hampton, announced that the total quote realized by Hampton, Phoebus and Elizabeth Oity county from the proceeds of the second annual Peninsula Charity Fair wasw \$1,551.00. Hampton and the county re-ceived \$1,034.00, and Phoebus was the recipient of \$517.00, to be distributed among charitable institutions, and for the aid of the needy at Christmassitims. York and Warwick counties each received ed \$200.00 as their share. Thei largest share - \$1,749.00 - was turned over toto the Newport News authorities. 12 × 529. 4 -----

1ST PURSUIT PILOTS IN GUNNERY TELERCISES U OW

The following-named officers of the 94th Pursuit Squadron, Selfridge Field, Mich., will participate in the forthcom-

Mich., will participate in the forthcom-ing gunnery exercises at Valparaise, Florida, for the periods indicated? From January 5th to 25th, inclusive? Captain John F. Egan and Ist Lieut. Winslow C. Morse, Air Corps; 2nd lieuts. Charles E. Trostel, Marvin L. MeNickle, Charles E. Grogan, Andrew D. Moore, Melvin F. McNickle, Dale D. Brannon, George M. MacNicol, Hamilton McClure, James R. Watt and Franklin H. MacNaugh-ton, Air Reserve. From January 26th to March 9th. Incl.

From January 26th to March 9th, Incl. 1st Lieut, Edward W, Anderson, 2nd Lieuts. John R. Ulricson and Morton D. Magoffin, Air Corps.

Magoliin, Air Corps. To remain entire gunnery period: Manor Harold H. George, 2nd Eleuts, William R. Clingerman, John G. Eriksen, Charles W. Stark, Howard F. Nichols, Edward P. Dinmick and Neel E. Kearby. Air Corps. อธาาม شقتن ------

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RANDOLPH FIELD HOST TO NEEDY CHILDREN

More than 120 needy and underprivileged children of San Antonio were guests of the six squadrons at Randolph Field, Texas a consult istmas Day for a turkey dianer with all the trimmings. The project was acceptate on the part of the enlisted personnel of the various organizations who, realizing that there would be many children whose Christman would be dull and dreary unless compone invited them to dinner, suggested that each squadron play host to a groups

to a group "The children arrived shortly after noon in bugses furnished by the Randolph Field Transportation Company and the Public Service Company of San Antonio. A special showing of technicolor cartoons in the Post Theater was first on the entertainment program. "Santa's Workshop," a whimsical cartoon, dealing with Kris Kringle working all year long at his home at the North Pole making toys for delivery on Christmas Day; "The Three Polar Bears," another color phentasy, and a third picture made up the movie program. Dinner was ready in the mass hells.

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Dinner was ready in the mess halls, which were decorated in honor of the visiting youngsters. At each table assigned to the children, several enlisted men were interspersed to lend assistance should it be needed. Bags of candy, fruit and muts were handed each child before leaving the dining room, but for the most part the bags went unopened, for every nock and cranny was already filled with roast turkey, mashed potatoes and mince pie.

A tour of the post and the hangar lines, where several airplanes were on display, wound up the program. "It is hoped," declares the News Letter Correspondent; "that this custom, started this year, will become an annual event at the West Poistof the Air.' The San Antoniobbranch of the Salvation Army offerred splendid cooperation in their selection of the children to be invited to the Christmas Dinner, also in their handling of the children during their stay at the field."

FLIDG ACTIVITIES AT SELFRIDGE FIELD

The 27th Dursuit Squadron recently completed on extensive period of training in interception. Much time was concentrated on improving methods of interception. While at this time the results have not peen made final, the belief is expressed that important improvements were made along this line. In the 94th Fursuit Squadron, the flying of cross-countries to Langley, Benning. Barkadale and Bolling Fields was

In the 94th Fursuit Squadron, the flying of cross-countries to Langley, Benning, Barksdale and Bolling Fields was supplemented by interception problems and aerial gunnery practice.

OBITUARIES

On the morning of December 22, 1938, while piloting a PB-2A airplane some three miles east of Oceanview, Va., on an instrument training flight, Second Lieutenant Gale E. Ellis, Air Corps, pilot, and Private, 1st Class, Charles S. Downer, Air Cerps, passenger, both of the 33rd Pursuit Squadron, GHQ Air Force, Langley Field, Va., were killed when the airplane crashed and burned. Parachutes were not used and the cause of the accident has not been determined. Lieut. Ellis was born in Pennsylvania on February 5, 1914. Following his grad uation from the U.S. Military Academy, West Point, N.Y., in June, 1937, when he was commissioned a second lieutenant in the Signal Corps, he was assigned to the Air Corps for flying training. He graduated from the Primary Flying School, Randolph Field, Texas, in June, 1938, and from the Advanced Flying School, Kelly Field, Texas, where he specialized in Pursuit Aviation, on October 5, 1938, on which date he was rated as "Airplane Pilot." Assigned to station at Langley Field, Va., Lieut. Ellis was on duty as Assistant Adjutant of the 33rd Pursuit Squadron since November 2, 1938.

Assistant Adjutant of the 33rd Pursuit Squadron since November 2, 1938. Private Downer was born at Pittsburgh, Pa., April 10, 1910. He enlisted in the Army Air Corps on December 11, 1929, and he served with the 99th Bombardment Squadron at Mitchel Field, N.Y., until September 27, 1933, when he was dischar ed by purchase. On March 4, 1932, he completed the course for aircraft armorers at the Air Corps Technical School at Chanute Field, Rantoul, Ill., and on May 15, 1932, he completed the course for parachute riggers at this same school. On August 27, 1934, he enlisted for service with the 37th Attack Squadron at Langley Field, Va., and he has been stationed at this field, performing the duties of aircraft armorer, since that time.

First Lieutenant Watson M. Frutchey, Air Corps, met his death on December 14, 1938, while engaged in aerial gunnery practice in the Hawaiian Department. The pilot preceding him having shot the sleeve target from the tow line, Lieut. Frutchey continued his gunnery practice by making diving attacks, firing at a reef about 500 yards off shore. Civilian witnesses stated that, after pulling out of one of these dives into a steep climb the airplane fell off after two or three hundred feet above the water and dived into the sea. The pilot did not use his parachute, and up to this writing his body had not been recovered.

hundred feet above the water and dived into the sea. The pilot did not use his parachute, and up to this writing his body had not been recovered. A native of Moorestown, N.J., where he was born on March 13, 1907, Lieut. Frutchey graduated from high school at Easton, Pa.; from Drake Business College and in 1927 from the Montclair, N.J., -17-V-7933, A.C. Secretarial School. After being engaged in the heating business for several years, Lieut. Frutchey enlisted in the Air Corps in June, 1930, and was assign-ed to the 7th Observation Squadron at France Field, Panama Canal Zone. Passing the examination for appointment as a Flying Cadet, he began training at the Primary Flying School, Randolph Field, Texas, with the March, 1932, Class. He graduated from Randolph Field on October 15, 1932, and from the Advanced Tlying School, where he specialized in Pursuit Aviation, on February 24, 1933, on which date he was rated as "Airplane Pilot," commissioned a second lieutenant in the Air Reserve, and assigned to extended active duty at Langley Field, Va., where he served with the 33rd Pursuit Squadron in various capacities. Relieved from active duty in January, 1935, Lieut. Frutchey enlisted as a Private in the Air Corps in order to take the examina-tion for a commission in the Air Corps, Regular Army. As an enlisted man he served for a brief period at Bolling Field, D.C., and then at the Boston Airport, Mass.

Appointed a second lieutenant in the Air Corps, Regular Army, August 1,1935, Lieut. Frutchey was assigned to Self-ridge Field, Mich., as Armament Officer, 57th Service Squadron. In the fall of 1936, he was assigned as student to pur-sue the Aircraft Armament course at the Air Corps Technical School, Chanute Field, Rantoul, Ill. Following his grad-uation from this School on June 30, 1937, he was transferred to the Hawaiian Department for duty with the 18th Pursuit Group at Wheeler Field. While on duty With this Group, he narrowly escaped death on February 7, 1938, following a mid-air colligion, and managed to reach the ground safely through the medium of his parachuta his parachute.

A distressing aircraft accident in the A distressing aircraft accident in the vicinity of Uniontown, Ala., late in the afternoon of December 23, 1938, resulted in the death of 1st Lieut. James D. Underhill, Air Corps; 2nd Lieut. John W. Pollard, Air Reserve; 2nd Lieut. John H. Hydle, 30th Infantry; Captain Fred Rueb, Jr., Medical Corps; Privates, 1st Class, Sheldon S. Johnson, Humbert D. Narro and Private Ben L. Jones, Air Corps. Private Ben L. Jones, Air Corps. Lieut. Underhill, the pilot, was fly-

ing a B-18 airplane about five miles southwest of Uniontown, Ala., when a line squall was encountered and the air-plane crashed. Up to this writing the cause of the crash has not been determin-

Lieut. Underhill was born in Kansas on April 26, 1910. After graduating from the U.S. Military Academy in June, 1933, when he was commissioned a second lieutenant of Infantry, he was assigned to the Air Corps for flying training. He graduated from the Primary Flying School, Randolph Field, Texas, June 30, 1934, and from the Advanced Flying School, Kelly

Field, Texas, where he specialized in Bombardment, on October 13, 1934, when he was awarded the rating of "Airplane Pilot" and assigned to duty with the 7th Observation Squadron at France Field, Panama Canal Zone. In January, 1937, upon the completion of his tour of service in Panama, he was assigned to duty at Hamilton Field, Calif. While station-ed at this field he qualified as a Dead Reckoning Navigator in the GHQ Air Force.

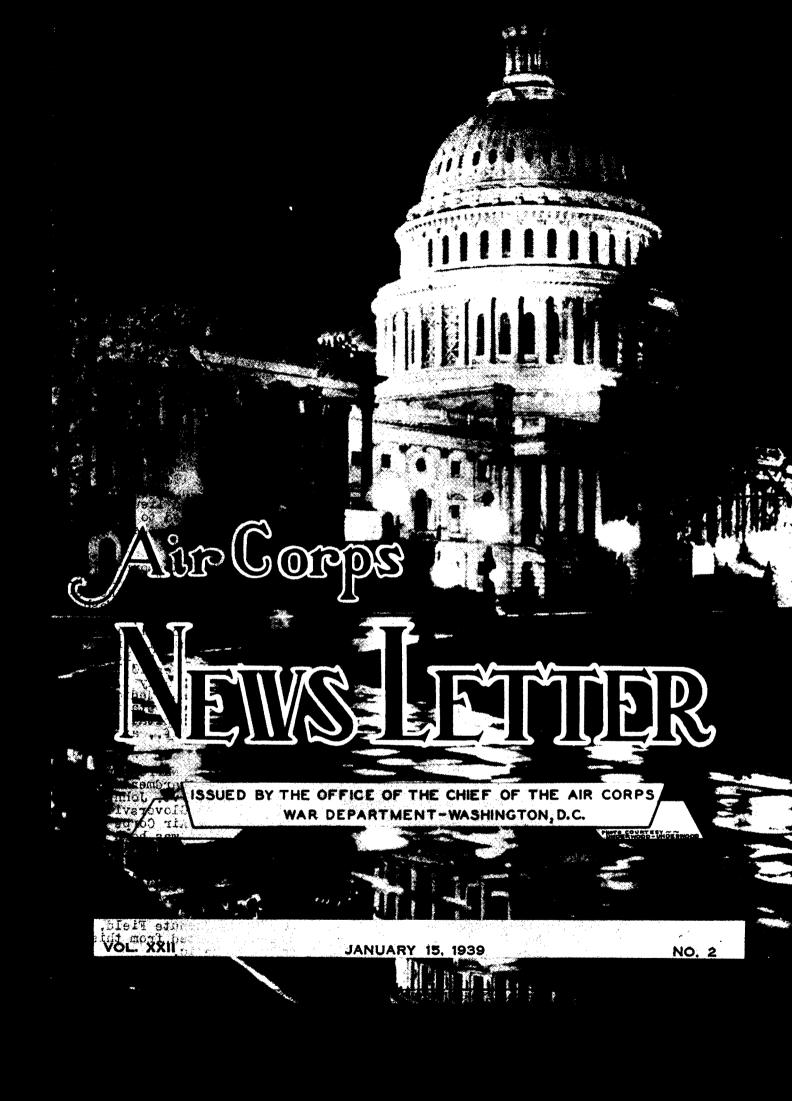
Lieut. Pollard was born at Medford, Ore. May 20, 1915. After graduating from hig. school and attending Fullerton, Calif., Junior College for two years, majoring in Aeronautics, he was appointed a Flyin Cadet in the Air Corps, Prior to this appointment he served as a Sergeant in the 115th Observation Squadron, Califor-nia National Guard. Following his grad-uation from the Primary Flying School, Randolph Field, Texas, February 23, 1938, and from the Advanced Flying School, Kelly Field, Texas, June 16, 1938, where he specialized in Bombardment he was he specialized in Bombardment, he was rated as "Airplane Pilot," commissioned (second lieutenant in the Air Reserve and assigned to extended active duty at Hamilton Field, Calif.

Lieut. Hydle was born in North Dakota, July 23, 1914. He received appointment as cadet at the U.S. Military Academy, West Point, N.Y., July 1, 1933, and upon his graduation therefrom on June 12, 1937, he was commissioned a second lieutenant of Infantry, and was assigned to the 30th Infantry with station at the Presidio of San Francisco, Calif.

Captain Rueb was born in Missouri, Feb-ruary 23, 1902. He graduated from the Uni versity of Illinois in 1926, with the de-gree of A.B., and in 1931 from the Washington University Medical School, with ington University Medical School, with the degree of M.D. He was commissioned a 1st Lieutenant in the Medical Corps Reserve June 9, 1931, and in the Medical Corps, Regular Army, September 10,1932. He was promoted to Captain, July 1,1934. In 1934 he graduated from the Medical Field Service School. He was stationed at the Lettermon Captain Hermital Proat the Letterman General Hospital, Presidio of San Francisco, Calif., at the time of his death.

Pvts. Johnson, Jones and Narro were all members of the 9th Bombardment Sqdn. all members of the 9th Bombardment Sqch. at Hamilton Field, Calif. Pvt. Johnson was born May 11, 1912, at Gloversville, N.Y., and enlisted in the Air Corps on Aug. 29, 1936. Pvt. Jones was born at Schlater, Miss., April 20, 1904, and en-listed in the Air Corps, Feb. 15, 1937. Pvt. Narro was born at Nogales, Ariz., October 19, 1911, and enlisted in the Air Corps, May 17, 1937. He graduated as Radio Repairer and Operator from the as Radio Repairer and Operator from the A.C. Technical School, Chanute Field, Ill. Fvt. Johnson graduated from this School as Airplane Mechanic. The deep sympathy of the Air Corps is extended the bereaved relatives. -18-

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The chief purpose of this publication is to distribute information on aeronautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation.

VACUUM OPERATED AIRCRAFT INSTRUMENTS By J. P. Callahan Materiel Division, Wright Field

The words "gyro instruments" have long since become familiar to those interested in aeronautics. Pilots have used them and have learned how to rely upon them in the form of bank and turn indicators, flight indicators, turn indicators, and automatic pilots. However, just what takes place inside of the cases of these instruments is mysterious not only to the lay person but also to many engineers. The gyroscope is essentially a spin-

ning wheel, the spin taking place at a high rotational speed. The two fundamental principles of gyroscopic action are those of inertia and of precession. The spinning wheel, if supported in a frictionless manner, will retain the di-rection of its axis in space, independent of the direction of the earth and of its magnetic fields. It is this ef-fect which is made use of in the Sperry automatic pilot, flight indicator and turn indicator. The second principle, that of precession, is made use of in the bank and turn indicator. When a force couple is exerted on a gyroscope in an effort to change the direction of its spinning axis, the gyroscope exerts a force and moves, unless restrained, in a direction at right angles to the ap-plied force couple. The movement is in a direction that tends to put the plane of rotation of the wheel in the same plane as that of the wheel in the same plane as that of the applied force couple, with the wheel turning in the direction that the applied couple would have it turn. In aircraft instruments the gy-roscopic element consists of a brass wheel, approximately 2 inches in diame-ter and one inch thick rotating at ter and one inch thick, rotating at speeds of approximately 12,000 r.p.m. These brass wheels are supported on the best bearings obtainable in an effort to have the absolute minimum of friction. The bearings in turn are supported in a gimbal or ring and this gimbal again is supported in the best bearings obtain-able for the same reason. If there is the slightest amount of friction in either the rotor or gimbal bearings, a gyro will tend to precess and the instruments will read incorrectly.

The above considerations have necessitated the use of air for driving the ro-

tors or spinning wheels. If electrica power were used, it would be necessary If electrical to carry wires across the gimbal bearings and probably to install commutators or slip rings in the rotor and brushes in the rotor housing. The friction of the brushes and the stiff. ness of the connecting wires across the bearings have meant that electrically driven gyroscopes in the past have been used without difficulty only in bank and turn indicators. If air under and turn indicators. If air under pressure were used, it would be necessary to remove every bit of oil infroduced in the air by the pump, as well as to include safety features in order to reduce the dangers of high pressure which might result from a stoppage in the system. Therefore, buckets have bee built into the periphery of the rotors and the rotors have been driven by air under vacuum which is pulled into the instrument through an orifice producing a jet of air which impinges on the buckets.

In the bank and turn indicator operating under a vacuum of two inches of mercury within the instrument case the velocity of the air in the jet is approximately 300 m.p.h. The peripheral speed of the rotor is approximately 60 m.p.h.

A large amount of development in vacuum systems for operating these instruments has taken place in recent years. In the first place the vacuum system is so designed that in case of engine or pump failure the instruments will continue to operate. In multiengine airplanes this is accomplished by having two vacuum pumps either of which has sufficient capacity to operate all of the instruments in the airplane. A manually controlled three-way vacuum selector valve is installed in such a way that the pilot may select either or both vacuum pumps to operate the instruments. At the present time there is no check valve which has a sufficiently low pressure drop to warrant its use in aircraft vacuum lines. The development of a suitable valve has been initiated. It is confidently expected one will be available in the near

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future. With two such valves, one in-stalled in the line to each pump, the pilot could set his selector valve to connect both pumps to the instruments. Then in case of the failure of one pump or of one engine, the check valve would automatically cut it out of the circuit and the instruments would operate with-

and the instruments would operate meta-out interruption. In the case of the single engine air-plane, the venturi tube has been used to furnish the alternate source of vacuum. However, one type B-4 venturi tube will decrease the high speed of an airplane equipped with a 1000-h.p. engine by 12 m.p.h. at 200 m.p.h. and 65 m.p.h. at 300 m.p.h. As higher speeds are being attained. it is obvious that the type attained, it is obvious that the type B-4 power venturi tube is too ineffici-ent to be used. It should also be re-membered that in order to enable aflight and a turn indicator to operate in an emergency glide of approximately 100 m.p.h., two such venturi tubes are neces-sary. Aircraft manufacturers are now sary. Aircraft manufacturers are now working on retractable venturi tube in-stallations so arranged that as the pilot selects his alternate source of vacuum, the venturi tubes will be thrust into the air stream.

The Air Corps specification for the installation of vacuum operated instruments requires that in single engine airplanes an alternate source of vacuum be provided for the bank and turn indicators only, on the assumption that the bank and turn indicator is the only es-sential gyroscopic instrument from the viewpoint of safety in descending through an overcast. The alternate source pro-vided should be either a small type A-3 venturi tube on the mation provided by venturi tube or the suction provided by the engine intake manifold. The latter the engine intake manifold. is at a disadvantage in that it is not available in case of engine failure. The type A-3 venturi tube has a drag of .50 pound at 100 m.p.h. as compared with 2,0 pounds at the same speed for the type B-4 venturi tube. This in turn means B-4 venturi tube. This is toth means that the decrease in high speed of an airplane powered with a 1000 h.p. engine at 300 m.p.h. is only 1.8 m.p.h. The use of the alternate source is manually controlled by the pilot by means of a four-way valve. The bank and turn

of a four-way valve. The bank and turn indicator is connected either to the pump as in normal operation or to the venturi tube or engine intake manifold. The Air Corps is now using one vacuum

pressure regulator which serves the double purpose of regulating the vacuum double purpose of regulating the vacuum pressure in the instruments and of re-lieving the pump when the line to the instruments is closed. It relieves and regulates. This regulator is installed not more than approximately 2 feet away from the pump and is adjusted to main-tain a vacuum pressure of 4.00 .25 inches Hg. in the case of the flight in-dicator for all engine speeds between 1000 r.p.m. and the maximum rated engine 1000 r.p.m. and the maximum rated engine

speed.

It is essential that a suchion gauge be used with each installation of vacuum operated instruments. The pilot has no other way of knowing when the instruments may be relied upon.

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LATEG

STAW -

The greatest difficulty encountered in the operation of gyroscopic instru-ments is that of bearing failure. Moisture and dust pulled into the in-strument from the surrounding air cause corrosion and pitting of the bearings. Filters are now standard equipment on all instruments but they keed mut the all instruments, but they keep out the dust only.

The Materiel Division is now working on a means of eliminating moisture as well as dust from the system . This development is being looked forward to by aircraft instrument engineers with eagerness, as it promises to increase the reliability and life of gyrbscopic instruments.

ACTIVITIES OF THE FIRST PURSULA GROUP

"It has been noted," says the Sulf-ridge Field Correspondent, "that several Air Corps officers are claiming fly-ing time in excess of 5,000 hours. Selfridge Field has the distinction of having one such officer, Major William R. Sweeley, Air Corps, who has 5160 hours pilot time. In addition, he has several hundred hours' Observer time."

1. The Cold Weather Equipment Tout, which started at Selfridge Field on January 2nd, was called off because of warm weather, and there was every indi-cation that there would be notes to weather in the immediate future. of However, on January 12th, three hours after all visiting units had returned to their home stations after the sus-pension of this test, it commended snowing, and this continued throughout the day, turning colder that evening,

During the absence of Major Harold R. Wells, Air Corps, Commanding Offi-cer of Headquarters Squadron, Ist Pursuit Group, Captain James E. Briggs, Air Corps, has taken over the Squadron Commander's duties,

113 Two second lieutenants of othe dime Reserve, James O. Beckwith and Williem C. Armstrong, were assigned to the 17th Pursuit Squadron as of January 12, 1939, upon the completion of student training at Randolph and Kelly Fields, Lieut, Beckwith hails from Burlington, Vt., and Lieut. Armstrong from Cleveland, Ohio. 10910 R25

Sergeant King and Private, 1st Class, Koch, of Headquarters Squadron, signed on the dotted line for another three years. "Could they be thirty-year men?" the News Letter Correspondent inquires. - V-7946, A.C.

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SOME DETAILS ON OFFICER IN WHOSE MEMORY LOWRY DIRDD WAS NAMED.

ion of where

Addition for the lieutenant.

He was fileut. Colonel Asa N. Duncan Executive Officer of March Field, Calif. one of seven surviving members of Lieut. Lought squadron still in the Regular

Anny nemation still in the Regular Anny nemation with bisut. Lowry was one of the crack flyers of the 91st Observation Squadron," Golarobucan said. "I never because inti-mately sequented with him because he - was stilled only a few days after I join-red the sequent on, but I remember well his being shock down.

being mhot down. 32 4 group of five planes had been sent 30 to obotograph bridges near Verdun. This was on the day the Argonne drive

was started. "We were flying French abservation type "planes. Walky companion and I were at the tail end of the formation on the left. Living and a chap with him by the name of -- Kelty were in the same position in the -groupinionly on the right." Columbinean said an anti-aircraft shell

struck howry's ship, splitting it in two. It fell apart in the air and crashed. The planes in the group had been flying at high altitude.

The Ninety-first Observation was one of the worst sufferers of casualties, Col. Duncan said. Its flights were all made over the front line trenches. Ger-managuns were constantly trained on this -igroup because of the crack flyers that composed it,

"An example of the way we were hit by casualtics;" Col. Duncan declared, "was by awn case. When I joined the Squadron Lawaseble roungest man in it. dayselater I was the oldest." Thirty Was one of the crack airmen in Uncle Sam's forces, adding that that was not only dais mainion but "the old-timers declaned just was one of the best." -u"Itals certainly a fitting tribute," ColorDuncan declared, "that the field school should be named after him as a lasting tribute. The Air School here appears to he destined to become one of apagers not the destined to become one of the structs great aviation centers." It (While st flowry Field, Col. Duncan was othe flest of Col. Jacob H. Rudolph, Lowry field Commendant. Col. Duncan was taken On all extendive tour of the field and manificeted great interest in the work being done C Col. Budolph remarked that he was planning to have painted at the School a huge picture of Lieut. Lowry and mag negotiating with officials in "Mathing to her with officials in "Mathing to be made. So the field

ACTIVITIES AT MARCH FIELD, CALIF.

Lieut. Colonels Benjamin G. Weir, Warner B. Gates, Majors Eugene L. Eubank, Walter R. Peck, Emil J. Kiel and Lucas V. Beau, Jr., left March Field for the Air Corps Tactical School at Maxwell Field, Ala., to pursue a thirty-day course in Naval Tactics, beginning January 9th.

Lieut. Charles M. Fischer, Air Reserve, recently announced plans to start production of a new safety air-plane for private flyers. The factory will be located in Glendale, Calif. The airplane will be known as the Fischer Air Coupe.

The old blunt-nesed B-18's are rapid-ly being replaced on the 19th Bombard-ment Group's line with the "shark nose" B-18A's.

Brigadier General Barton K. Yount, Commanding General of the Air Corps Training Center, arrived at March Field on January 4th in a B-18 for a short visit.

On Thursday, December 29th, March Field was honored in a fifteen-minute "salute to a National Institution" over the Columbia Broadcasting System.

The new 350-men barracks, nearing completion at March Field, will house the 19th Bombardment Group and greatly reduce the crowded condition at March Field.

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DROUGHT BROKEN IN SOUTH TEXAS

South Texas, suffering from a seven months' dry spell, finally got a re-spite when rain, which started falling spite when rain, which started lating on December 22nd, lasted through Christmas Day. Although the local dust problem has been alleviated, tempora-rily at least, a generalized dust storm swept down on the Primary Flying School at Randolph Field, and all of South Texas on January 5th.

Despite a cloudless sky, visibility was reduced to one-half a mile during most of the day, the local weather sta-tion reported, and for the first time this winter flying was cancelled be-cause of dust. Previous to the Christ-mas holidays, the outlying airdromes used for practice work both on Primery used for practice work both on Primary and Basic Stages were very dusty due to the lack of rain, but after weathering this unpleasant situation, the flying personnel were forced to curtail instruction when the generalized dust storm swept down from the northwest. ----000----

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The News Letter Correspondent from Randolph Field, Texas, presents herewith the second installment of Flying Cadet phrases, expressions, etc., which have either been originated in the Cadet Detachment at Randolph Field, or have been given special meanings by that organiza-tion. Their publication is for the gen-eral information of the Air Corps at large, that they may be acquainted with the phrases as they crop up from time to time.

Contribution of phrases which are pop-ular at various Air Corps stations are requested by the Public Relations Offi cer of Randolph Field, so that eventual-ly it may be possible to publish a com-plete glossary of Air Corps Terminology. Storm -- Name applied to the condition one is in when he is excited and doesn't

know what he is doing. Dawn Patrolling -- One is said to be dawn patrolling when he arises before reveille. Also noun, the Dawn Patrol;

also adjective - a Dawn Patroller. Dodo Tom -- The janitor of B Company, whose service dates back to 1922 at Brooks Field. For the information of former Flying Cadets, Dodo Tom is now on Civil Service status, but still has never been in an airplane.

Dodo -- The name given to a lower classman, which he retains until he is promoted to Basic Stage.

Gun -- Verb. To ask a waiter in the Mess Hall for a second filling of a dish. For example - "Gun the potatoes," mean-ing, have the potato dish replenished. - Gunner -- One of the lowerclassmen who sit at the end of the tables in the Mess Hall and is charged with heaving all Hall and is charged with keeping all dishes replenished.

- H,P, -- Abbreviation for Hot Pilot... one who is exceptionally good.

Gig -- The popular name for a demerit. Tour -- An hour of marching on the ramp with rifle and white gloves. Given

as a penalty. "6 and 20 Tootsie" -- Any bit of young enticing femininity who is responsible for a Cadet returning late from a week end leave - "6 and 20" meaning six demerits and 20 tours.

Power Birds of War -- Another name for

all Flying Cadets. City of Wings -- Derisive term for Randolph Field, used usually during rest periods of Infantry drill.

. Riding the beam -- Gazing at the ceiling after violating a custom in the Mess Hall.

Bunk Flying -- Talking aviation while in the barracks.

"Drive it in the hangar." ---"Let's stop bunk flying."

Cadet Widow --- A young lady who has

In all add known Flying Cadets for several carbons ∀ุเธมกษไ มา classes.

THEFT NA BUL

RANDOLPH FIELD SETS FLYING RECORD Add Lodzag FOR WINTER MONTH. iberoni no?

Amassing a total of 15,994:30 hours of flying time during the month of AJ' December, the Primary Flying Schools at Randolph Field set a record for time during a winter month. When and star 370membered that student training was cancelled on December 22nd for the Christmas holidays, the total number of hours presents an even more imposing appearance, Cheineers :

Only twice in the history of Mandolph Field has this figure of almost 16,000 hours in a single month been introassid. Last August, more than 16,500 diviers Last August, more than 10,500 moments is were flown, and during September that all time high of 17,373 hours meres of flown. At the time, it was toomputed / that Randolph Field airplanes flow as distance of more than three times i 20 around the world at the equator levery one of the thirty days of thest month? ----000---- '-{(a mewoo s

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SOLDIER'S MEDAL PRESENTED TOmis & tot . redilco RANDOLPH FIELD SERGEANT creant, as

To the strains of martial mult, Ser-geant Harry M. Hayes, of the strain Ser School Squadron, Randolph Ficht, Ser was presented with the Soldiers Modal at a review on January 7th of Resignation General Barton K. Yount, Companding General of the Air Corps Training Con-ter, presented the medal.

The entire command of Randolph Field was present to pay homage to Sergeant Hayes, who on July 2, 1938, Herebud the pilot and two companions from BLIC airplane which crashed into Mistiges airplane which crashed into applied artificial respirations. plied artificial respiration. Sergeant Hays then inflated the collapsible life raft and got the three men to the shore.

Sergeant Hays figured in the first on two occasions previous to his Heroic rescue in Panama. He made and emergency parachute jump from a disabled ai plane near Dryden, Texas, and ten years later made his second emergency later. time from a Bombardment airplane (2197) Sergeant Hays entered the service in 1026 of Vollar Head more are service in

1926 at Kelly Field, Texas, and most of his service has been at the Fraining Center and in the Canal Zone, S and at

V-7946, A.C.

PERFORMANCE AND DEVELOPMENT TRENDS IN MILITARY AIRCRAFT AND ACCESSORIES

In an address before the Society of Automotive Engineers at Detroit, Mich., on January 11, 1939, Major General Henry H. Arnold, Chief of the Air Corps, dis-cussing some recent trends in the fighting airplane and accessory development, stated that there is an insistent demand for incredible speeds in our late fight-ing planes. "It appears," he stated, "that no plane can be considered for futhat he plane can be considered for lu-ture development which will not have a speed in excess of 400 m.p.h., and our engineens are talking quite seriously of 500 m.p.h. as a practical possibility. They propose to reach these speeds pos-sibly in two ways. First, in what is called a delean up of design, ' as the engineers say, they are going to bring everything indoors and lock the door; nothing will be left projecting or hang-ing outside. The other method is by a ing outside. The other method is by a tremendous increase in the horsepower of the motive power plant. There are other accessories and adjuncts which will play vitel parts, such as propellers and fuels. The definite trend for the fighter is for a smaller and lighter airplane. It will be small and as light as pos-sible, bearing in mind that it must house a power plant of some 2-4,000 h.p., and there must be a gun platform, probably for a single small cannon of at least 37 mm caliber. It will have but a single mm. caliber. It will have but a single occupant, as the pilot will also serve the - gan, which will be electrically operated and controlled. There is but one slight wertation from this mighty little atomof Bilighters which I have just described and that may be the advent of the multisease fighter. There has been consider-able faciling of late that the modern air war is going to require a plane of the fighter fight which can carry more arma-menty perhaps two cannon and from two to four machine guns of 30-50 caliber, in order that it may engage in combat with the Flying Fortress on more equal terms. There has been consider-

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the Elving Fortress on more equal terms. "In this country we jumped to an early lead in this category when our engineers with the cooperation of the Bell Aircraft Company of Buffalo, produced the XFM-1, a multi-seater fighter with which we experimented last year and which has now been ordered in a service quantity of 13. Perhaps, no airplane produced last year called forth such widespread comment both at home and abroad as this so-called At home and abroad as this so-called Aircuda if A British magazine said of it is the U.S. Army Air Corps' new Bell Fighter, is the coming thing. The tech-pical department of every air force in the world, would give a lot to have 48 hours along with this machine.' This oversigned signature - it will have one other edge advantage - it will have a range which will permit it to accompany and defend our own bombardment formations on long air raids.

"Bombardment aviation is the basic subdivision of the flying arm just as the infantry is the basic ground arm. Upon bomber success will depend the eventual outcome of the air struggle. This knowledge has led us to concen-trate on perfection of this type. Mil-itary strategists of every nationagree that the modern bomber must have the range to reach any vital target in the enemy nation; it must have the speed to reach that objective in the quickest possible time for efficiency in the performance of its mission and as an aid to escape from hostile pursuit; it must carry a sufficient quantity of explosives to make its errand an economical one and to give it the capacity to

destroy any objective. "These superior requirements have led us to experiment with substratosphere and over-weather flying. During the past year we have had very actively in operation our own substratosphere plane, the XC-35, which has served as a high altitude laboratory. Our success with it indicates the early probability that giant bombers will house their personnel in sealed pressure cabins and that they will be designed and equipped to fly in altitudes in excess of 30,000 feet.

"Last September the President of the United States presented to me as Chief of the Air Corps the Collier Trophy, emblematic of the outstanding aeronautical development of the year, for the work our Corps did in developing and testing the substratosphere plane, the first pressure cabin plane ever suc-cessfully flown extensively anywhere in the world. This is a fair indication of the import of high altitude flying, both for military and commercial planes. It would not be surprising, therefore, if a considerable proportion of future air traffic will be beyond the sight and sound of terrestrial inhabitants. Necessity and economy will demand this innovation.

"The great increase in size and speed of air vessels has led to tremendous changes in the dimensions and types of airdromes. There is now a general feeling that we must concentrate on a reduction in airdrome requirements by building into our planes slower land-ing speeds. I believe that this research will continue with all variety of flaps and slots in an effort to obtain better control and to reduce land-

It is possible that during the next five years the airplane may take on an appearance considerably different, at least superficially, from its present Basically, the wing-body com-(Continued on Page 15). form. V-7946, A.C.

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DEATH OF PROMISING YOUNG PILOT

While piloting an A-17 airplane short-ly past noon on January 8th, 2nd Lieut. Wallace Embry Nau, Air Corps, was killed instantly when the plane crashed into rimrock some nine miles south of Trichere, Colo., during a snowstorm. The engine was torn from the airplane by the crash. The parachute was not used.

Lieut. Nau was hot used. Lieut. Nau was born at Cavalier, N.D., September 16, 1915. He graduated from Marshall, Jr. High School, Pasadena, Calif., in 1931, and from the Pasadena Junior College in 1935. Shortly after-wards he enlisted in the Air Corps and served as a private with the Station served as a private with the Station Complement at March Field, Riverside, Callf

Qualifying for appointment as a Flying Cadet, he graduated from the Air Corps Cadet, he graduated from the Air Corps Primary Flying School, Randolph Field, Texas, October 10, 1936, and from the Advanced Flying School, Kelly Field, Texas, where he specialized in Attack Aviation, on February 17, 1937. He was given the rating of "Airplane Pilot" and assigned to duty under his flying cadet status with the 95th Attack Squadron at March Field. He received his appoint-March Field. He received his appoint-ment as a second lieutenant in the Air Reserve on June 20, 1937. About a year later he passed the examination for a commission in the Regular Army, and on July 1, 1938, he was commissioned a second lieutenant in the Air Corps. On August 26, 1938, Lieut. Nau was transferred to Lowry Field, Colo., for duty as a student at the Denver Branch of the Air Corps Technical School At

of the Air Corps Technical School. At the Air Oorps Training Center, the deceased young officer proved an apt pupil and he was on the way to a successful career as an Air Corps officer.

The Air Corps extends its deep sympa-thy to the bereaved relatives of the deceased.

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WHAT'S IN A NAME?

A telegraphic report on an airplane accident at Randolph Field, Texas, gave the name of the pilot as Flying Cadet F.R. Pancake, a student at the Primary Flying School. The accident, however, was not due to a cause such as the name of the pilot would imply. He was engaged in night flying and struck some flood lights in taking off. The Cadet suffered no injury.

In the Army, as in other walks of life, there occur many instances where the name of an individual is peculiarly co-incidental with the nature of the occupation in which he is engaged. For instance, in the permanent commissioned personnel of the Regular Army such names are noted as Code, Patient, Ryder and Bridges. Now it just happens that Major James A. Code, Jr., is in the Signal

Corps; Captain William F. Patient' is. a medical officer; Major H.L. Ryder is a Cavalry officer, and Captel prime William C. D. Bridges is in the Oprosi-of Engineers. And while touching on a these interesting coincidences where v more appropriate name could there be an the Finance Department of the damay than Overcash? Actually an officer by that name has a Reserve commission in the that branch of the service. branch of the service.

AIR-MINDED CALIFORNIA Mi amon modern of

The Civil Aeronautics Authorit two of 18 the United States recently released statistics, as of October 1, 1938, 310 which show that 11 per cent for the circle 10,091 certified aircraft of the United States is registered in California, and 19.4 per cent of the 21,526 pilots of the nation are also in this State, 111 sqinal vod

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NOTABLE INCREASES IN AIR TRAFFTC sid Burear

Western Air Express, Burbanks, Galif., flew 665,000 passenger miles during November, 1938, to show an increase of nearly 60 per cent over the same month

last year, and thus establishing the all-time November passenger 'fecord' Nearly 2,100 passengers were carried on the Western Air Express' border to-border system during November' af com-pared with 1850 who flew Western 4100 Express during the same month an 135? a gain of 14 percent for November, 1938 November's mail load of 75,950 poinds represented an increase of 18 per cent over mail poundage carried thirthe No-vember, 1937. threaghout ----000----

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KELLY FIELD SOLDIER RECEIVES COMMENDA-TION FROM U.S. COAST GUARD. U.A. U. HUNW

Private, 1st Class, William M. Well Hewgley, 12th Air Base Squadron, the Air Corps Advanced Flying School, Kelly Field, Texas, was the recipient recent-ly of a letter of commendation from of Captain William J. Wheeler, U. Se Coast Guard, Commander, New Orleans Division, expressing appreciation for the states tance rendered following the eresh of a Coast Guard airplane at Boerine, shart Texas, on December 19, 1938, same lett ter follows:

"It has been reported to the Commander, New Orleans Division, U.S. Scoutton Guard, that Private first class B191 Hewgley, U.S. Army, attached 100 Bight Hewgley, U.S. Army, attached 100 Bight Detachment under your commandi fendered exceptionally fine assistanted in the operation following the crash of cost Guard J2W-1 airplane, V-157, at 380 Fine, Texas, on the evening of Detember 100 1938, which resulted in the semaric Va (Continued on Page 5) 210 A

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V-7946, A.C.

AN "EARLY BIRD" OF PUSHER SHIP ERA.

The dengers that beset aviation's vali-ant pioneers - stalwart flyers who risk-ed life and limb on every flight - are vivid memories for Clair G. Horton, of San Antonio, an "Early Bird," himself, who cheated death in the thrill-packed

ere of the pusher type planes. Today, Horton is rounding out more than 30 years! continuous experience in the aeronautics game. As general foreman of the aircraft shops at Duncan Field, he comes in close contact with the most medern of planes, but he's never piloted

any of them. In dant, he has never flown any plane but those of the old pusher type because his actual flying career extended from Lung, 1914, to March, 1915. But during Ethat period, and as a mechanic both before and after his pilot days, he saw unfolded, as part of his daily life, the hardships, the drama, the ingenuity and the perils and courage associated with early aviation.

Among his closest associates were such

Among his closest associates were such famous pilots as Charles Hamilton, Lincoln Beachey, Glenn H. Curtiss, Eugene Bly, Bud Mars, August Post, James J. Ward and John McCurdy. Horton's career began in September, 1908, When he obtained employment with the Glean H. Curtiss Airplane and Motor-cycle Co., at Hammondsport, N.Y. There he not only worked on aircraft but as-sembled metorcycles and tested them on Various thecks.

various tracks. In 1940 he joined the Curtiss Exhibi-tion Company at Baltimore, Md., as avia-tion mechanician, assembling, maintain-ing and disassembling exhibition air-planes being flown at various cities throughout the eastern and southern sections of the United States and Cuba.

Harton was in Havana in January, 1911, when J.A.D. McCurdy attempted to fly from Key, West to Havana, a distance of 98 miles. McCurdy ran out of oil 10 miles from his destination and dropped into the Gulf of Mexico. He was picked up six minutes later by the United States Navy torpedo best Paulding, one of five which had been stationed along the route for Just such an emergency.

The Curtiss biplane was kept afloat in the shark-infested waters by two safety tanks strapped to the lower surface of the plane, - a happy foresight, for sever-al sharks had collected by the time McCurdy was rescued from the top wing, where he had taken refuge. Horton recalls that in those days

Horton recalls that in those days pilots were lacking in number, and it was not unusual for a man to solo him-self without any previous flying experi-ence, Such a man was Lincoln Beachey, although it must be said that he previ-ously had been a dirigible pilot for several years. In his first take-off at Camp Columbia.

J. A. ANTON

Havana, Beachey flew into the wind and made a successful hop, but upon his re-turn trip he ran into disaster. When he set the plane down he mashed his front elevators and bamboo outriggers directly into the president of Cuba's French automobile,

Undaunted, Beachey developed into a daredevil and stunt flyer and in the same year, 1911, flew over Niagara Falls. Also in that year, during the Chicago Aviation Meet, he went up to 11,000 feet and won the world's altitude record.

Later, Beachey was drowned while fly-ing at the California Panama Pacific Fair in San Francisco. The wings of his plane folded up when he was coming out of a vertical dive.

"The year before Beachey was killed," orton said, "I had seen him flying in Horton said, a 60-mile gale, dive 5,000 feet straight for the earth and, when 300 feet from the ground, push forward on his elevators and throw the pusher plane bottom up and fly with the wind for a quarter of a mile. Then he would for a quarter of a mile. Then he would pull the elevator back, dive down again until he came right-side-up and come in and land.

"The plane he used in his trick had no horizontal or vertical stabilizer whatever; there was no fuselage to restrict the maneuvers and I doubt if modern planes could maneuver in as close as he did," Horton said.

Horton remembers James J. Ward, while at Cienfuegos, Cuba, flying a plane with a propeller that was patched to-gether with ordinary glue. Every once in a while the propeller would fly apart and each time it would have to be glued together again. He recalls the coest of

He recalls the coast-to-coast air race which Ward and Calbraith P. Rodgers entered in 1911 for the \$50,000 prize money offered to the first man to fly from New York to Los Angeles. After Ward had spent about \$20,000 trying for the \$50,000 prize, his backers decided to call it a day, and he went back to exhibition flying. Rodgers finally landed at Pasadena on

Nov. 5, after numerous forced landings. The race had started Sept. 17. On Rodgers' last run out to the edge of the Pacific Ocean, some sea gulls became lodged in the chain and sprocket of his elevator controls and he dove into the beach and was killed, Horton said.

Horton, himself, was nearly drowned twice in accidents involving his hydroplane, once in Lake Winnipeg, Canada, when a strap became emmeshed in the plane's mechanism, throwing the craft but of control and into the lake, and again when the plane overturned in storm-lashed Lake Ponchartrain, La. In the latter accident Horton was under the water more than two and one-(Continued on Page 8).

For the purpose of acquainting visiting Air Corps personnel with the accom-medations and facilities available to

transient aircraft visiting the Municipal Airport at Medford, Oregon, the following information is submitted:

Personnel: (Minth Corps Area Air Corps Detachment):

Staff Sergeant Willie M. Daws - N.C.O., In Charge - Airplane Mechanic.

Sergeant AM 1st Class William T.

Wheeler - Airplane Mechanic.

Private AM 2nd Class Joseph V. Mendrala-Airplane Mechanic.

Corporal AM 1st Class Allen P. Cross -Radio Operator In Charge WYQ. Private AM 2nd Class Pete H.Christian-

sen - Radio Operator.

Private AM 2nd Class John E. Nagley -Radio Operator.

Private AM 2nd Class Raymond W. Kalbfleisch - Radio Operator

Accommodations and facilities:

There is always an ample supply of government contract gasoline (92 octane) and oil (120) available. Should more than our normal storage capacity of 2000 gallons of gasoline be required, one or more tank trucks can be sent out from the city in approximately twenty to thirty minutes. Airplanes can be serviced at the rate of about 28 gallons per minute.

Air Corps supplies are very limited but, should the need arise, spare parts can be ordered and delivered by air from the Air Corps Depot in approximately three to four hours.

The municipally-owned hangar has ample storage space, being 100' x 110' inside, and is in excellent condition.

The Air Corps Detachment is equipped with a Chevrolet Reconnaissance Car (8passenger), which assures ample transpor-tation to and from the city, which is about three and one-half miles from the airport. Additional staff cars and trucks can be secured from the Medford District Headquarters of the CCC, should they be required.

Two mechanics are on duty daily, including Sundays and Holidays, from 8:00 a.m. to 4:30 p.m., and arrangements have been made with the Department of Commerce Radio Operator on duty to call the Air-port Superintendent, Mr. T.A. Culbertson, Jr., (2nd Lieut., Air Reserve) and one of the mechanics, should any aircraft arrive after closing hours. The men on duty meet and service all aircraft assigned the Air Corps, the Marine Corps, Navy, National Guard and the U.S. Coast Guard.

There is maintained at the Airport a weather bureau, teletype station, and Department of Commerce radio station in addition to the Army Airways Communica-The Department of Comtion Station. merce radio station (KCX) operates on

263 kcs and stands-by on 3105 kcs. con-tinually. The Army Airways Communica-tions Station (WYQ) operates on 4220 kcs to aircraft and stands by on 3105 kcs from 7:00 a.m. to 5:00 p.m. daily, including Sundays and Holidays, but as including Sundays and Holidays, but yet has no facilities for receiving weather reports. Pilots approaching should call the Department of Commerce Station (KCX) for weather and field conditions.

There is no restaurant at the privil. the nearest one being approximately two miles. There are three good hotels and three good theatres in the city is light which have very reasonable rates is all

Several pilots have expressed sales prise at finding a detachment of the Air Corps on duty at this Airport and the News Letter Correspondent states: "It is believed if the informations herein is distributed generally thru the medium of the Air Corps Rews Letter more personnel will take advantage of the excellent accommodations and facil-ities at this field. It might be well ities at this field. It might be well to stress the fact, too, that this is a regular stop for United Air Times and the runways (one approximately 63800' x 150' and one 2800' x 100') are 1 lways in excellent condition." the yearsh

"Early Bird," From page 7. White west half minutes before he could free himself. He had a passenger with him on both occasions. In the latter accident a control cable became lodged between the back of his neck and the upper ex-tension of his life preserver. It took the last bit of Horton's strength to pry the cable loose.

Horton, who remembers many other thrills and tragedies of the "Early" Birds," has been a civil service enployee since 1917, and has been at ployee since 1917, and has been at "Incan Field for the past 19"years. "The greatest change in airpland de-sign from 1914 to the present,"

said, "is that in early models no instruments or flight indicators, engine gauges and other such things were used. They had 90 horsepower engines with top speed of 55 miles per hour difference modern planes have 1,800 to 5,600 to horsepower, 40 or more instruments, fly from 300 to 400 miles for thousand - San Antonio NEWS 911 and

Commendation for Pvt. Hewgley (Fr. P.6.)

death of two Coast Guard officers, a Coast Guard petty officer and as army non-commissioned officer. dynom and non-commissioned officer. The assistance rendered by Private first class Bill Hewgley, U. 98 Army, is very much appreciated, and 10 16 re quested that record be made divisine." V-7946, A.C.

WE THINK SO, TOO!

The Kelly Field Correspondent submit-ted the following article, which appear-ed the the San Antonio Evening News of December 30, 1938, and which he believes should be of interest to Army Air Corps personnel who formerly served at Kelly Field: "Zooming over the Airdromes By T.D. Higgins 'Veteran'

An interesting character out Kelly Field way is Mrs. W.E. Rowe, who has op-erated a little cafe just off the air-drome for the past 21 years, during which time she has seen thousands of Uncle Sam's soldiers and student pilots come and so

Uncle Sam's soldiers and student pilots come and go. Mrs. Howe has operated her cafe in a modest two-room frame building since 1987; the same year that construction was started at the present Kelly Field No. 237; She was there even before the soldiers arrived. Mrs. Howe is very proud of the 'boys' who have called Kelly Field their home during the past two decades. 'There have never been any better boys at any: post in the country than those

at any post in the country than those who have served here through the years,' she will tell you with conviction. She has seen many of them retired from the Army at Kelly Field, she has seen others leave never to return, and she has wel-

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comed others back after they had been transferred to other posts. Just the other day a soldier who was a private at Kelly Field when he was trans-ferred away 14 years ago, paid her a vis-it as one of his first acts in returning to the sindrome. to the airdrome. And he came back as a first sergeant.

The enlarged classes at Kelly Field, which necessitates more flying, doesn't bother Mrs. Rowe in the least. She sai She said there was lots more flying during the World War. The noise of the airplane motors then was so great one had to shout to carry on a conversation in the

Shopu to the cards from the Mrs. Rowe receives cards from the Tboys! from many distant points. This Christmas she heard from some in Panama and Hawait. They never forget her. And while they come and go with the years, Wrs. Rowe remains in her little cafe -Mrs. Howe remains in her little cafe -in the same building she has occupied the past 21 years."

We think so, too, Mrs. Rowe!

The 74th Attack Squadron, Albrook Field, Banama Canal Zone, is planning a mass flight to Guatemala City late in the month of January, and preparations are being made for a flight to the States. The date of departure of the Albrook Field pilots on this flight has not yet been announced not yet been announced.

REFRESHER RESERVE OFFICERS LEAVE FOR NEW STATIONS.

The following-named second lieuten-ants of the Air Reserve, who satisfac-torily completed the refresher course of instruction for Air Corps Reserve officers at the Air Corps Advanced Fly-ing School on December 23, 1938, de-parted from Kelly Field on January 4, 1939 for their new stations:

1939, for their new stations: William C. Armstrong and James O. Beckwith, Jr., to Selfridge Field, Mich.

Lawrence R. Gibboney, Walter L. Hawkins, Robert J. Koster and Eugene McCurdy to Barksdale Field, La.

William W. Holmes to Brooks Field, Texas.

Charles J. Langmack to March Field, Calif.

Frederick H. Postal to Langley Field. Va.

Second Lieuts. Joseph C. Mackey and Claud A. O'Quinn were assigned to the Advanced Flying School, Kelly Field, for duty as flying instructors, the former with the Pursuit Section and the latter with the Attack Section. ------

RADIO MEN GRADUATE FROM TECHNICAL SCHOOL

Twenty six Air Corps enlisted men were graduated from the Radio Repairers and Operators class of the Air Corps Technical School, Chanute Field, Rantoul, Ill., on December 16, 1938. These graduates were sent to the

following stations: Scott Field, Belleville, Ill., 1; Kelly Field, San Antonio, Texas, 2; Selfridge Field, Mt. Clemens, Mich., 4; Barksdale Field, Shreveport, La., 4; Barksdale Field, Shreveport, La., 4; Fort Sam Houston, Texas, 1; Langley Field, Hampton, Va., 4; Hamilton Field, San Rafael, Calif., 4; Fort Leavenworth, Kansas, 1; March Field, Riverside, Calif., 1; Mitchel Field, Long Island, N.Y., 3; Chanute Field, Rantoul, Ill., 1. Since October 7, 1938, there have been 174 men graduated from various

been 174 men graduated from various courses taught at the Air Corps Technical School. The number of graduates and the courses from which they graduated are as follows:

Radio Repairers and operators, 45; Airplane mechanics, 58; Aircraft machinists, 6; Aircraft welders and sheet metal workers, 12; Instrument specialists, 13; Propeller specialists, 13; Carburetor specialists, 11; Electrical specialists, 12; Parachute riggers, 4.

RANDOLPH FIELD ASSUMES ROLE OF ALMA MATER.

Randolph Field, home of the Air Corps Primary Flying School, played host to 1079 visiting aircraft during the calendar year 1938, a recent survey of Post Operations Office records disclosed.

"Although these figures do not compare in volume with some of the stations in the east and north, they indicate that the 'West Foint of the Air' has assumed the role of Alma Mater to an increasing number of graduates, who are beginning to look on the Training Center as more than another school in the United States Army system, for it was at the Primary Flying School that their future careers were moulded," the Air Corps News Letter Correspondent declares.

Correspondent declares. During the last 15 days of December, pilots and crews from 21 fields in a total of 49 airplanes dropped in at Randolph Field, either for service or for an overnight stop. Among the fields which furnished visitors during this period were;

Adams Field, Little Rock, Ark. Anacostia, D.C. Barksdale Field, La. Bolling Field, D.C. Chanute Field, Ill. Hamilton Field, Calif. Hartford, Conn. Hensley Field, Calif. Hartford, Conn. Hensley Field, Texas. Langley Field, Va. Maxwell Field, Va. Maxwell Field, Ala. Margh Field, Calif. Miller Field, N.Y. Newark, N.J. Moffett Field, Calif. Mitchel Field, N.Y. Lambert Field, Mo. Lowry Field, Denver, Colo. Quantico, Va. Pensacola, Fla. Wright Field, Ohio.

LOW FLYING TO READ SIGN POSTS

Just outside the main gate of Randolph Field there are a series of small arrow type road signs, with the mystic directions "Inner B," "Outer B," "Inner J," "Outer J," "Inner H," "Outer H," and many others of a similar nature. Their purpose is to direct the operators of the radio equipped trucks, used in connection with the Instrument Landing System to the proper stations, depending upon wind conditions.

Finally, one afternoon, a young lady of San Antonio asked her escort as they passed through the gate, just what was the meaning of all these mysterious road signs. He was experienced in the ert of anewoning questions of a technical nature, and for fear of becoming involved should he attempt to describe the intricate workings of the Instrument Landing System, he merely passed the question off

with: "Oh, they're just used Officentection with Instrument Landings." Puzzled for a moment over this shawer,

NEW DAY ROOM DEDICATED AT MITCHEL FIELD

The 2nd Air Base Squadron at first tensi Field, L.I., New York, dedicated iss new Day Room on December 22, 1958, 199 Colonel T.J. Hanley, Base Executive officer, and Major James W. Hampond Com manding Officer of the 2nd Air Base 10 Squadron, were among those present during the festivities. First Sergeant Russell Highley delivered an address. during the course of which he presented the Day Room to the members of the organization. Refreshments were the selves.

Serves. The new Day Room is located in the basement of "A" Barracks and comprises approximately 3000 square fet df floor space. It is equipped with the howt ultra-modern chrome trimmed upholstered furniture and indirect lighting fixe tures. A fire place, floor lamps, card tables and magazines make this one of the "homisst" day rooms to be found throughout the Army.

the "nomices of army. Members of the 2nd Air Base Stuadton extend their invitation to visiting enlisted personnel to spend their spare time taking advantage of this comfortable Day Room.

MORE FUNDS FOR IMPROVEMENTS

The Quartermaster General of the Army has advised the Commanding Officer of Randolph Field, Texas, that the President has approved a supplemental State W.P.A. Project in the sum of \$27,390.00 to effect various; inprovements at that field. The sum of \$9,907.00 is provided for the renovation of twenty double sets of noncommissioned officers' quarters, \$1,003,00 for painting sash and exterior trim of twelve officers' quarters, \$1,673,00 for for termite eradication in staty tho buildings and \$14,807.00 for excavating, hauling and spreading top soll and backfilling around buildings and curbs on the post.

Upon the completion of their tours of duty in the Panama Canal Department, 2nd Lieuts. Harry L. Donicht and Ladson S. Eskridge, Jr., are to proposed to the d Air Gorps Technical School for duty, the first-named at the Denver Branch at Lowry Field, Colo., and the last-haned at Chanute Field, Rantoul, 111-960. - 10- V-7946, A.C. SARBANE OFFICER ADOPTED BY INDIAN TRIBE

Warrant Officer Harrison Billingsley, of the 4th Air Base Squadron, March Field, Riverside, Calif., was recently adopted by the oldest tribe of the Hopi Indians in secret ceremonies conducted in Riverside. He was the 126th white man to be adopted by the tribe. Among his "pale-face" brothers are: a relative, Colonel Billingsley, who for 17 years

Colonel Billingsley, who for 17 years has been closely associated with the Hopi indians and acts as their interpre-ter, and United States Senator Ralph M. Cameron, of Arizona. "Mr. Billingsley now goes by the name of Lartieo-kee (Fox Claws), and strides is and trim his office "tepee" (Air Corps Supply), with the dignity and calm beritting is exalted place of honor in one of immerica's "first families." "If the tribe his exalted place of honor in one of the tribe of the initial ceremonies, two very hospitable chiefs the tribe in its native Arizona. "If the tribe in its native Arizona." "If the is a visit," they urged. "Come and see us and stay for a year." "If the table in its native for the istol shot, "To the them the use of modern is the table invited Mr. Billingsley, who has won many medals as an expert pistol the San Blas Indians of South and Cen-tral America while on a tour of duty in Panama: The secret tribal order of the

tral America while on a tour of duty in Panana, The secret tribal order of the Hopi traces its history back to the ancient pyramid builders of Central America who lived in 2000 B.C.

As an obligation of membership, Mr. Billingsley is to attend a gathering for the administration of higher degrees at Mesa, Arizona, in February. -----

TROFT COLONEL PIRIE REVEALS OLD AMBITION

Touching upon the visit to March Field, Touching upon the visit to March Field, Calified M January 9th, of Colonel John H. Warke Air Corps, Commanding Officer of Marwell Field, Ala., the News Letter Correspondent relates that the Colonel, who formerly commanded March Field, was met upon his arrival by a host of friends, all eager to offer hospitality during his stay. However, to their ear-nest place that he be a guest in one of their homes, Colonel Pirle turned a deaf "Boring all the time I was Commanding "During all the time I was commanding officer of March Field, I assigned many a visiting officer to the guest quarters in the Officers' Club, where they had the opportunity of taking a bath in the beautiful black-tile bathtub installed there. "Now it's my turn - and I mean 'on the officers of material for the News

JE Soperioutions of material for the News Letterare solicited from Hamilton, Scott, Mitchel, Lowry and Chanute Fields. -11-

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AIR CORPS' LARGEST POST HAS MINIMUM OF AUTOMOBILE ACCIDENTS.

The Randolph Field Correspondent de-clares that if a city of almost 3,500 persons went through an entire year persons went through an entire year with only four minor automobile acci-dents, consisting of scratched and bent fenders, it would in all probability be nominated as "the nation's Safest City." If this city had an automobile population of one car for every two and a fraction persons, this record would be considered even more remarkable.

"The 'city' of Randolph Field, Texas," he says, "is boasting of this record. which was disclosed in the annual inwhich was disclosed in the annual in-spection of records in the Provost Marshal's office. The official popula-tion of Randolph Field is 2,980 per-sons who actually live on the post. It is estimated that an additional 500 civilians are employed on the post either on the construction of the two new Flying Cadet barracks, or as civilian employees in various capacities.

"The Provost Marshal's office reports that 1,018 automobiles are registered on the post, but this number does not include the cars operated by the tempo-rarily employed civilians. In addition to the automobiles permanently registered, there is a steady flow of visitors to the 'West Point of the Air, ' but despite the 'down town' traffic congestion that occasionally arises, only four minor traffic accidents have been reported in the year 1938."

VETERAN NONCOMMISSIONED OFFICER RETIRES FROM ACTIVE SERVICE

Sergeant Hubert Jones, veteran of more than thirty years' service, re-tired at Randolph Field, Texas, on the last day of December, 1938. War De-partment Orders, dated December 20, 1938, authorized the retirement. A member of the 47th School Squadron since April 23, 1931, Sergeant Jones was presented with a sporting rifle at a dinner tendered him by his celleagues in the Squadron prior to his retire-ment. He plans to make his home in or near San Antonio. near San Antonio

Sergeant Jones! service dates from August 28, 1904, when he enlisted in Company M, 29th Infantry. He served with the doughboys until January 8, 1915, when he transferred to the Medical Corps. After another short tour with the Infantry, he transferred to the Air Corps on November 13, 1923, when he was assigned to the 46th School Squadron. He transferred to the 47th School Squadron on April 23, 1931, and Served with that unit until his retirement,

V-7946, A.C.

RETIREMENT OF TECHNICAL SERGEANT MOORE

Orders were recently received from the War Department placing Technical Sergeant John Henry Moore, 46 years of age, of Kelly Field, Texas, on the retired list of the Army, effective December 31, 1938, after more than 30 years' active service

Sergeant Moore, who was a member of the Medical Department (Veterinary Service), first enlisted in the Regular Army on October 19, 1909, at Columbus Barracks, Ohio, during which enlistment he served with the 15th U.S. Infantry ("Can Do" Regiment) in the Philippine Islands and in China. During subsequent enlistments he served with the 20th, 8th and 31st regiments of Infantry, both in the States as well as in the Philippines and in Siberia, and in the Medical Department at a number of military posts. During the World War, Sergeant Moore served with the American Expeditionary

During the World War, Sergeant Moore served with the American Expeditionary Forces in Siberia. He recalls that his service in that far-flung outpost of Uncle Sam was probably the most unpleasant in his career, due to the extremes in temperature. At Vladivostok, where he was stationed, the thermometer registered 110 degrees in the shade (AND NO SHADE) in the summer of 1919, and during the winter of 1918-19 it registered 63 degrees below zero - where for three days and nights the men of his organization were unable to leave their billets due to the severe cold, and of necessity wore practically all their clothing and bedding to keep from freezing. The most pleasant moment of his service in Vladivostok, according to the Sergeant, was the day he led the Armistice Day Parade in that city - which was participated in by all troops of the Allied Armies when he was Drum Major of the 31st U.S. Infantry Band.

Infantry Band. While in the Philippines, Sergeant Moore took personal care of Major General Omar Bundy's favorite mount, and upon receiving his discharge from his then current enlistment was given the very unusual distinction of having his discharge certificate signed personally by General Bundy.

In reminiscing over his happy 30 years of interesting and varied active service, Sergeant Moore looks back to the most pleasant service he enjoyed while serving two tours of duty with the 15th and 20th regiments of Infantry at Fort Douglas, Utah. He reiterated, however, that his more than nine years' service in the Philippines, China and Siberia were probably the most interesting and diversified.

This splendid noncommissioned officer, who has served his country in the far corners of the earth, somehow or other managed to serve at intermittent periods in the San Antonio area for about 10 years. Sargeant Moore owns a home on Monterrey Street in San Antonio, where he and his wife intend to live part of the time. He also owns a small form at Cotulla, and he expects to divide his time between these two places, as he has a number of relatives living in both localities.

Sergeant Moore, who is retiring at an unusually young age, entered the service at the age of 17. He benefitted considerably through the double time credit he received for foreign service. He was born and raised at Friendly. West Va. He recalls that after leaving his Friendly home he proceeded to Kentucky to win fame and fortune. He found work there, but states that it did not come up to his expectations, and looking to other fields he decided that the Army was the place for him. He thereupon enlisted, and he has served his flag continuously ever since. The Sergeant received the grade of mechanical Sergeant on December 2.1938.

The Sergeant received the grade of Technical Sergeant on December 2, 1938, and is the proud possessor of the World War Victory Medal with Siberia clasp.

During his earlier days in the service (1913-1915), he recalls with pride that he was a member of a detachment at Fort Bliss that escorted General Macado of the Mexican Army and his army of 5,000 men from Marfa, where the General had surrendered to a detachment of the 15th Cavalry, to Fort Bliss, and then to Wingate, New Mexico, for confinement at a detention camp. According to the Sergeant, when the initial muster was made of the Mexican prisoners, some 5,200 were counted, but after about a week, when the word went the rounds of how well the American Army fed its prisoners, an additional thougand prisoner to the stockade of the prison

prisoners managed somehow or other to "crash" the stockade of the prison. "All of Sergeant Moore's discharge certificates bear the notation of "Character - Excellent," and he has been the recipient of numerous commendations for his meritorious service, the latest being the one received hest August from the Quartermaster Supply Officer, 8th Corps Area General, Depot, for the efficient manner in which he performed his duties as assistant to the Veterinarian of that Depot during the conduct of the Third Army Maneuvers.

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TEMPORARY PROMOTIONS

Special Orders of the War Departmental recently issued, announced the fermorery appointment as of January 30,1939; of Lieut. Colonel John B. Broeks, JAirj Corps, to the rank of Coloned; Majer Joseph H. Davidson, Air Corps, Sonthai rank of Lieut. Colonel, and Gaptein Everett S. Davis, Air Corps, to statist rank of Major.

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COL MYERS TRANSFERRED TO HAMILTON FIELD

Special Orders of the War Department, recently issued, relieved Lieut. Colonel David A. Myers, Medical Corps, Flight Surgeon, from duty in the Office of the Chief of the Air Corps, Washington, D.C., and assigned him to station at Hamilton Field, San Rafael, Calif. Colonel Myers, D.C., Field, San Rafael, Calif. Colonel Myers, who has been on duty in the Medical Sec-tion. Office of the Chief of the Air Corps, since February 20, 1935, became Chief of that Section on October 17, 1938, upon the relief from duty as Chief Flight Surgeon of his predecessor, Lieut. Colonel Malcolm C. Grow, Medical Corps. A native of Cambria, Wis., where he was born on June 16, 1876, Colonel Myers graduated from high school at Marshfield. graduated from high school at Marshfield, Wis He then attended the University of Minnesota for two years, and in the year 1898 he graduated from McGill University, Montreal, Canada, with an M.D.C.M. de-

gree. During the World War, Colonel Myers, an October 19, 1918, was appointed a Captain in the Medical Corps, U.S. Army. For several weeks he was on duty as an instructor at the Medical Officers' Training Camp at Camp Greenleaf, Fort Oglethorpe, Ga., following which he was transferred to Payne Field, West Point, Miss, where for a period of about six mention he was on duty as Assistant Post

Miss, where for a period of about six menths he was on duty as Assistant Post Surgeon and later as Post Surgeon. After a period of duty as a student officer at the Medical Research Labora-tory at Hazelhurst Field, L.I., New York, which was then the School for Flight Surgeons, and following his grad-wation therefrom, he was, on July 25, 1919, transferred to Post Field, Fort Sill, Okla, for duty as Flight Surgeon. On October 18, 1919, he was transferred to Kelly Field, Texas, for duty as Flight Surgeon in connection with the Mexican Border patrol. In April, 1922, he was assigned to duty as Flight Surgeon with the 13th Observation Squadron at Fort the 13th Observation Squadron at Fort Bliss. Texas.

For nearly three years, from April, 1933, Colonel Myers was on duty in the Hawailan Department as Senior Flight Surgeon, with station at Luke Field. Upon his return to the United States in May, 1926, he was assigned to duty at Crissy Field, Presidio of San Francisco, Calif., as Post Surgeon. Four years later, he was transferred to Mitchel Field, L.I., New York, where he served until April, 1933, when he was assigned to station at Fort Screven, Ga., where he served as Post Surgeon, also as Dis-twict. Sargeon, C.C.C., for the States of Florida, Georgia and South Carolina, un-til his assignment to duty in Washington 1935, in February,

Itumas during the year 1926, when Col. Myers was stationed at Crissy Field, Calif., that he and Lieut. Colonel Wm. C

the introduction of instrument flying It had instruction in the Air Corps. been firmly established that individuals who were blind-folded, placed in a revolving chair and rotated for a few turns, invariably replied after the chair was gently stopped that they had started to turn in the opposite direc-tion of prior motion. The tendency of an individual's senses to play him false in a situation of this kind is the result of induced vertigo.

Colonel Myers gave this induced vertigo test to Colonel Ocker to ascertain what the mental reactions of an oldtime pilot would be when he discovered he could not tell whether he was turning or sitting still. Following the test, Colonel Ocker departed without comment of any kind, but soon returned with a view box which he carried in his hand. Colonel Ocker had realized the fallibility of the human senses as a true barometer of the actions of an airplane in flight, when the vision of the pilot was cut off by fog or other conditions. He and Colonel Myers designed a small box with a bank and turn indicator and other instruments which was intended to be used in connection with the testing of pilots in the re-volving chair, in order to demonstrate the fallibility of the human senses when contact with the earth by means of sight was no longer possible.

With the view box in his possession, Colonel Ocker was again examined by Colonel Myers. The revolving chair test was repeated in all combinations of rotation, using the unlighted box to cut out the light and thus remove sight from the equilibrium senses. There was the usual induced vertigo, with the usual inability to tell correctly which way the body was turning. One of the instruments, a gyroscope, was then started, and the Bank and Turn Indicator was put into action. A flashlight bulb installed in the view box was turned on and the tests were repeated. This time every answer was correct as to direction of motion, Even the confustopping and starting. sion of reversals was absent. The sensations were felt the same as before, but by giving the answer shown by the indicator needle on the Bank and Turn instrument instead of the answer prompted by his senses, it was found impos-sible to confuse him.

This demonstration started the research into blind flying. It was immediately recognized that here was the answer to the inability of pilots to perform blind flying without a visual reference to gravity. By lighting the box, the equilibrium senses were re-stored to a coordinated action, Merely restoring sight to the equilibrium Calif., that he and Lieut. Colonel Wm. C. sense is not enough, however. There Ocker! Air Corps, conducted certain ex- must be something within the pilot's periments and research work which led to range of vision that will act as a ver-V-7946, A.C. -13tigo stopper and tell him what position his ship is in with relation to the earth's surface; in other words, allow the pilot mentally to visualize "where is the ground," and to establish his spatial position. The needle on the Bank and Turn Indicator will accurately show motion in either direction, right or left, and will come to a dead center and remain there when there is no rotation.

Constant repetitions of demonstrations with the Ocker-Myers "Vertige Stopper Box" finally convinced pilots that it was a real lie detector and that, on the ground at least, they could not tell which way they were turning, provided there was no visual reference on which the mense of sight could depend.

With Colonel Ocker at the controls, Colonel Myers spent many hours in the air as a "Blind Flying" observer in a hooded cockpit in which no instruments had been installed. By means of strings he communicated to Colonel Ocker what he (Colonel Myers) thought Colonel Ocker was doing with the ship from time to time. Colonel Ocker kept notes of the various maneuvers the airplane was put through, and upon returning from these flights the observations of Colonel Myers on the actual performance of the plane were checked. Invariably Colonel Myers was unable to tell with accuracy what maneuvers the plane had gone through or in what position the plane was at a certain specified time.

The value of the Ocker-Myers view box became generally recognised as the only means available of instructing pilots and prospective pilots while on the ground in the sensations they would experience and the reactions they would have if they attempted to do blind flying without an artificial horizon. The definition given for "Artificial Horizon" is set forth in the original manuscript reporting on this research work, and is as follows:

"Any instrument or combination of instruments which will quickly, easily and reliably give the pilet information which he may mentally visualize in terms of where is the ground."

Alluding to Colonel Myers as the silent partner of Colonel Ocker in working out the faulty reactions of pilots and the necessity of learning to fly by instruments, a high-ranking Air Corps officer made the statement that if it had not been for Colonel Myers' work it is doubtful whether much progress would have been made in this connection.

Colonel Myers is the author of many articles which have been published in medical journals. Following his graduation from McGill University, he was engaged for several years in post graduate work in medicine at St. Louis, Chicago and Cleveland. He was house surgeon

both at St. Mary's Hospital at Oshkosh, Wis., and St. Agnes Hospital at Hondidu Lac, Wis.; Surgeon at the Southwestern Hospital, Lawton, Okla., and Consulting Surgeon at the Kiowa Commancher Indiano Hospital, also at Lawton, Okla., He was also Surgeon with the Southwestern Bell Telephone Company and with the South western Electric Company. For a period of eight years he was Assistant State Health Officer for Oklahoma, and other civic positions he filled were those of City Physician of Lawton, Oklahoma, and County Physician, Commanche County, and Oklahoma,

Colonel Myers is a member of the American Medical Association and a Reklow of the American College of Surgeons, the served as assistant professor, Medicak Jurisprudence, Oklahoma University, also as president of the Oklahoma State Medical Association; president; and vicepresident of the Commanche County Medical Association, and vice-president of a the Southwestern Medical Association; of

A NEW CRASH BOAT REACHES ALBROOK FIELD

A new crash boat, designated as the P-18, was delivered to the Transportation Officer at Albrook Field, Banama Canal Zone, late in Decembers having d been shipped from the States aboard the Army Freighter LUDINGTON. The open if rescue boat is a 35-foot cruises, with t in Freeport, Long Island, N.F. and is capable of speeds up to thirty miles a per hour.

per hour. A larger boat, which is being mebuilt from a Navy hull, will, when completed, be turned over to the A & R Being mebuilt at Albrook Field and placed at the disposal of post personnel for recreation purposes.

AN ERRAND OF MERCY IN THE CAMAL ZONE

On the afternoon of December 20th, at the request of the Commanding Officer of the Fleet Air Base at Coco Solo, Canal Zone, an aerial search massinity tiated for a Naval officer. Ceptain Sherman, who was overdue at Coco Solo, enroute from David, Republic of Panama. Before the search planes had taken the air, a report came in by telephone of the forced landing of the ship, type there is an auxiliary landing field on the David route. Two A-17 sports of the field, with Lieut. Colonel Woodp Sp Woolford, Medical Corps, to massofor the injured pilot and return himstoentserp station.

The plane had been crashedsingaforged landing and the pilot, sufficient from a broken leg and brokensitby had been brought in on horseback from the - V-7946estas0f

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DEPURCHASE DATE OF FIRST ARMY AIRPLANE. AOWEI

A reader of the Air Corps News Letter, Colonel Charles deF. Chandler, who was affiliated with Army aviation in its sarly days from the very beginning, and who is now on the retired list, takes exception to the statement in the New Year greating of the Chief of the Air Corps in the January 1st issue to the offect that July 29th is the anniversary date of the purchase of the first Army airplans: He states that that date is a bit too soon according to the official - records, adding that the demonstration of the cross-country feature and speed test for the Tright airplane by Orville Wright was not conducted as part of the official trials at Fort Myer, Va., until July 30th, one day after the date referred to - an the greeting as the purchase date. He - adds further that after all of the tests had been completed, the Aeronautical Board held a formal meeting on August 2, 1909, which proceedings recommended the acceptance of the Wright machine. The proceedings of the Aeronautical Board were approved by the Chief Signal Officer on the same date.

Colonel Chandler contends that because of that action on the second of August, it would seem that date is the proper one to use as the beginning of Army Aviation.

The News Letter expresses its appreciation to Colonel Chandler for bringing its attention to this matter and gladly accepts the correction.

Colonel Chandler was Commanding Officer of the first Army Aviation Schools at College Park, Md., and Augusta, Ga., during the years 1911 to 1913. He was a member of the Board of Officers conducting the Wright airplane trials at Fort Myer, Va., in 1909. During the World War he served overseas as Chief of the Balloon Section, A.E.F., from November, 1917, Ito February, 1918, and was then ordered to Washington for duty as Chief of, the Balloon and Airship Division. UNITERO

Trendsin Military Aircraft and Accessories Elst (Continued from Page 5.).

ा धनः poments will probably change but little, as thexears molded by inflexible laws governing the contours, designed to pass readily, through a fluid medium. But in general arrangement, several recent de-velopments or more properly speaking, revival of old ideas - have begun to exert quite a large and disturbing influ-ence. Whe first is the reincarnation of the hose wheel, the same in principle as the die used in 1908. The second revival the che cased in 1906, The second revivel is still some distance off, but it is yethamore radical change; that is, the tailefirst arrangement. This consists inflossing the horizontal tail surfaces absolute the wing and thus utilizing all of the tail surfaces in a lifting effort. It goes without saying that we must im-

prove our aerodynamic cleanness of design and this entails smooth contours, low drag power units, thin wings, com-pletely retractable landing gear, no interference, the absolute minimum of cooling drag, and the general absence of all bumps such as exposed rivets, lap joints, tail wheels, exhaust stacks, air intakes, aerials, and a host of other parasites. A smooth finish is requisite to reduced skin friction drag and all openings must be carefully sealed to prevent leaks and subsequent interference losses. Grew accommodations and arrangement must be reduced to the minimum dimensions consistent with efficient fulfillment of the military mission."

With respect to aircraft engines, General Arnold stated that no matter how aerodynamically clean aircraft may become in the near future, cruising speeds of 300 m.p.h. and above for bom-bardment aircraft, and high speeds of between 450 and 500 m.p.h. for pursuit planes will mean great increase of horsepower with a considerable stepup in the unit size of engines. Motors of from 3-4,000 h.p. no doubt will be built and engines of larger size will be constructed if these prove satis-factory. He added that "since in all factory. He added that "since in all probability we have already attained the maximum size in the individual cylinder, the problem becomes one of grouping a multiple number of cylinders in an arrangement that creates the minimum amount of aerodynamic drag, airplanes grow larger we undoubtedly shall bury the engines completely within the wing. Mechanical layout, cool-ing, balance, firing order distribution, and supervising should all be thorough-ly analyzed with a view to great improvement.

"Engine development and fuel development have progressed hand in hand. The improvement in anti-knock value of fuels has been largely utilized by present aircraft engines in obtaining increased power output. In this conincreased power output. In this con-nection the engine of today burns its own weight of fuel in a four-hour flight at cruising speed. For long range airplanes one can readily see where low specific fuel consumption will become more important than specif-

ic weight of engine. "The long range airplane will be of little value unless its power plants are able to function for long periods of time under minimum fuel consumption conditions. Such engines must be designed for extreme reliability and durability far in excess of anything available today. It is quite probab. that both the aircraft structure and It is quite probable the propeller will have to be insulated against the abaormally severe vibrations that breed in the engine. "It appears to me that engine devel-opment at the present time is lagging

V-7946, A.C. -15behind many other aeronautical features and accessories and that there must be early stimulation of engine development to provide us the airplanes we require."

carly summation of engine development to provide us the airplanes we require." Pointing to the possibility of the aluminum industry being seriously handicapped in supplying all the needs of the aircraft industry in the event of amajor emergency, General Arnold stated that the Air Corps is now investigating the manufacture of airplanes made of materials other than aluminum; that bakelite propellers and pulleys have been known for years and instrument boards and cases are now being satisfactorily molded. There is the possibility of molding wing spars and ribs and fuselages from thermosetting plastics reinforced by wood and wire. "The industry," he said, "can be expected to investigate this possibility fully in the very near future, with what may perhaps be startling results. "We are today flying a small quantity of spot-welded stainless steel wings and predict that the weap of supt

We are today flying a small quantity of spot-welded stainless steel wings and predict that the use of spot-welded stainless steel is on the up grade. More of it will be used, particularly around the engine nacelles to reduce the fire hazard. Perhaps we shall make a complete airplane out of stainless steel eventually.

ally. "The spot welding of aluminum alloys is also on the increase, and may within a few years take the place of flush rivets on exposed surfaces. The Air Corps has one pair of aluminum wings flying today which are entirely spot-welded."

Declaring that the modern airplane requires materials having a high strengthto-weight ratio, General Arnold added that other factors, such as fatigue strength, yield strength, notch sensitivity, ductility, impact strength and corrosion resistance, are of importance and must be considered in designing airplane parts.

plane parts. "At the present time," he said, "aluminum alloys constitute between 75 and 85 percent of the structural weight of many military airplanes and approximately 50 percent of the weight of the engine. There is room for improvement in the ability of these alloys to resist fatigue. Forging alloys of aluminum have a fatigue strength of only 25 percent of their ultimate, whereas in the forging alloys of steel the fatigue strength approaches 50 percent of the ultimate. Perhaps some brilliant metallurgist in the near future can rearrange the grain structure, or perfect a forging technique to develop further this very important physical property.

physical property. "Recent developments of an alloy of magnesium-aluminum-zinc and manganese have improved the resistance to corrosion. It appears that other metallurgical improvements may extend the application of magnesium in aircraft construction.

"The heat-treated low-alloy steels are standard materials for highly stressed airplane and engine parts. The use of SAE-4140 and 4340 steel is increasing be-

"The development of austenitic, steels and the nickel-chromium-iron alloys, as well as the nickel-molybdenum-iron alloys, as loys, will probably continue intian offort to get a more suitable material for exhaust stacks. We are lowing for something which will resist confront and scaling and yet have a high strength at elevated temperatures, is in the "The use of paint-type coatings for

"The use of paint-type coatings ion? the exterior surfaces of metal forward airplanes will probably decrease it is doubtful if the weight added by paint finishes, their cost of application and maintenance, especially with the difficulty of maintaining the coatings on leading edges of high speed sirplanes and the cost of removal and reflecting after a period of service warrants with return to painted surfaces on Theore aircraft.

"The replacement of rubber material, which is a strategic material, withrubber-like synthetics is being rapidly accomplished. Synthetic hose for fuel, oil and prestone lines has proved superior to the rubber hose, and the use of synthetics is rapidly extending to tires, tubes and balloon fabrics?"

"We expect in the near future to fabricate our parachutes out of man made material which promises in every respect to exceed the performance and properties of the fiber made by the silkworm. We are doing everything possible to utilize materials made in America. Research and development will continue with the objective of making ourselves self-sufficient so that we will not have to rely upon a foreign source of supply for an essential raw material in a time of national emergency."

in a time of national emergency " Pointing to the prospective increase in horsepower, together with the planned increase in high altitude fiving as requiring a considerable acceleration in propeller development, General Arnold stated that the solution of propellers for the smaller airplanes will probably be found in the design of propellers having four and finally six blades of relatively small dismeter mounted either in a single hud or divided equally between two hubs which revolve in opposite directions about the same center of rotation. For the farger airplanes the solution wift be found in the development of properiers of three, or possibly four, blades having a diameter upward of 20 feet. The primary design problem here necessitates the satisfactory development of 16011 J100070 ll i datri gread vilov

blades much lighter in weight than pre-

sents types while still maintaining sat-isfactory blade efficiency, endurance and perfect safety. Hollow steel, hollow durate magnesium, and plastically impreg-nated wood all seem to be possibilities. Because of the high efficiency and flexibility of operation of the control-lable propeller as it exists today, it will be many years before any other means of propulsion, such as rocket or jet propulsion, can be expected on a large a calies

airplane, either civil or military."

EXPANSION OF AIR MAIL OUT OF LOS ANGELES

According to statistics compiled by the Los Angeles, Calif., Chamber of Com-merce, air mail originating in that city has shown a stoady growth year after year. Based on official records, the figures reveal that beginning in 1933, during the era of the spacious tri-motored airplanes, the total poundage originating at the Los Angeles post of-fice during that year was 494,661. By the and of 1934, the poundage had grown to 501168 for that period. For the year 1935, the air mail increased to 910,355 pounds; for 1936 to 1,230,730 pounds; for 1937 to 1,468,579 pounds, and for 1938 to 1,556,772 pounds. Thus, the air mail poundage in 1938 was three and one fifth times that of 1933.

THE REAL PROPERTY AND ALBROOK FIELD

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Construction work on the proposed run-ways at Albrook Field, Panama Canal Zone, commenced on the morning of Decem-ber 20th last. It is reported that only one-third of the landing area of Albrook Field is being used at the present time, the remainder being marked off with area area

REBUTTAL Anonymous)

Last night deep in the pages of a slick papered publication which I buy each month to look at the pictures I chanced upon the discreet and dignified advertisement of a dignified insurance firm for his text the adwriter had chesen the calm efficiency of modern flying and mentioning no exceptions declared that olden days of glory and adventure have passed away in this great industry and that calm precision is the byword of the air with pilots raising kids and chickens instead of hell becoming pillars of their communities as it were the message was put across in fine style and quite convincingly but none the less was somewhat erroneous for there is no little of the old harry in everyone who has shaken hands with a stick and I wondered if that adwriter would get canned if some joe forgot his manners momentarily and snap rolled a douglas full of debutantes and other important people no doubt there would be a stink the thought is far fetched yet amusIng and it serves my point for I'm certain mister adwriter would qualify his statement with a little asterick denoting certain air corps activities were he privileged to see a p twenty six being properly maltreated in aerobatic maneuvers for there can be no calm precision when you're tail up in a loose belt and hanging onto a throttle quadrant wondering behind which cloud the ground is hiding. ----

u.e. Arky air corpe general officers









ALIGUSTINE W ROBINS BRIGADIER GENERAL CHEF-MATENEL DIVISION





BARTON K YOUNT BRIGADIER GENERAL CORPS TRAINING CENTER



WALTER H FRANK



ARNOLD N KROGSTAD



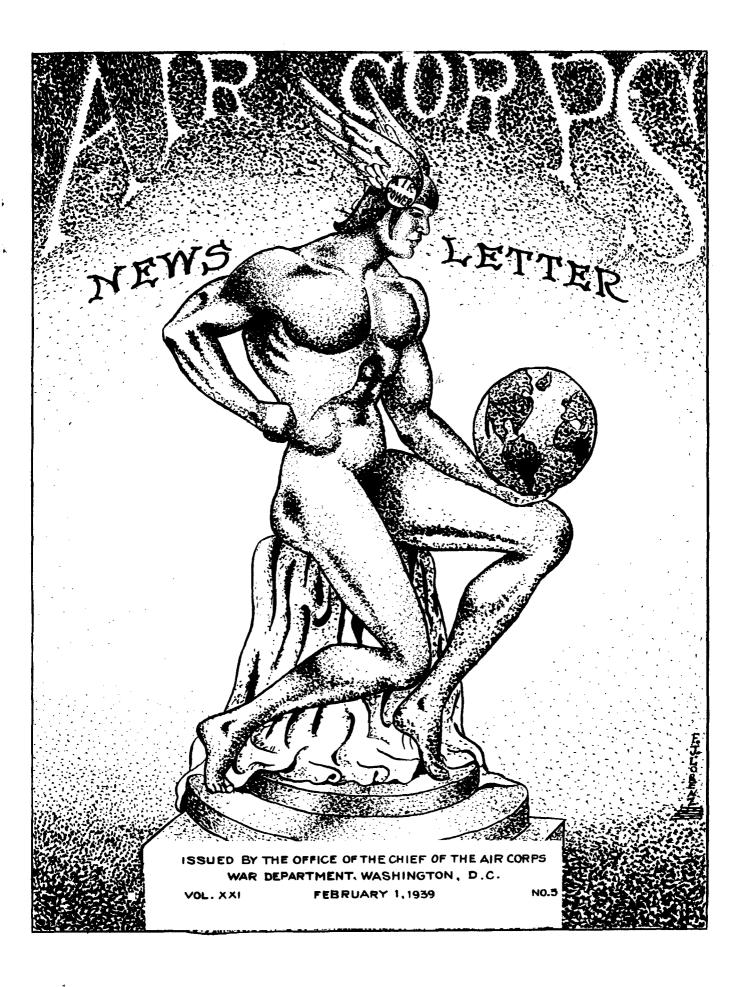
FREDERICK L. MARTIN BAGADIER GENERAL COMMANDING BOWING



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The chief purpose of this publication is to distribute information on aero-nautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation,

KELLY FIELD GRADUATES ITS LARGEST CLASS

Graduation exercises for the present class (39-A) at the Air Corps Advanced Flying School, Kelly Field, Texas, were set for Wednesday, February 1, 1939. This class, which consists of 4 Regular Army officers, 6 National Guard officers and 161 Flying Cadets, is the largest to graduate from Kelly Field in the history of the Air Corps Training Center. Plans originally called for the gradu-ation to be held on February 15th, but due to the excellent weather during the first three months at the class

first three months of training, the class was enabled to complete the prescribed flying hours and ground school far in advance. Only 62 days were lost due to inclement weather (including Friday, January 20, 1939).

The roster of students who are expected to graduate is given hereinafter.

Colonel Clarence L. Tinker, Air Corps, who is en duty in the Office of the Chief of the National Guard Bureau, War Department, Washington, D.C., was an-nounced as the principal speaker for the graduation ceremonies. His son, Flying Cadet Clarence L. Tinker, Jr., a student in the Pursuit Section, is expected to graduate with this class.

The graduation exercises will include the customary Aerial Review by the graduates, followed by ceremonies to be held at the Post Theatre, where Colonel Tinker, after introduction by Colonel Frank D. Lackland, Air Corps, Commandant of the Air Corps Advanced Flying School and tem-Porary commander of the Air Corps Training Center, will address the class and

present each graduate with his diploma. Included in the reviewing party, in addition to Colonels Lackland and Tinker, will be Colonel E.A. Lohman, Air Corps. Assistant Commandant of the Air Corps. Advanced Flying School; Colonel John B. Brooks and Lieut. Colonel Edwin B. Lyon, Air Corps, Commandant and Assistant Com-mandant, respectively, of the Air Corps Primary Flying School, Randolph Field, Texas; Lieut. Colonel Coleridge L. Beaven, Medical Corps, Commandant of the School of Aviation Medicine, Randolph Field; and Major John R. Morgan, dir Corps, Director of Flying, Air Corps Training Center. These officers will also occupy seats on the rostrum at the Post Theatre, as well as Colonel Edmond J. Griffin, Post Chap-

lain, and Major Harvey W. Prosser, Air Corps, Secretary of the Advanced Flying School.

Other events scheduled for the day are listed, as follows:

7:30 a.m. - Assembly of Flying Cadeta to accept their commissions and accom-plish oath of office as second lieutenants in the Air Corps Reserve. 8:30 a.m. - Graduates of the class

report to their respective sections.

8:55 a.m. - Flying Cadets from the Basic Stage at Randolph Field to form as a guard of honor, and to witness the review, in front of Post Operations Office.

9:00 a.m. - Graduating class to take stations in airplanes.

9:05 a.m. - Airplanes to taxy out on the field.

9:10 a.m. - Take-off. Promptly at 9:30 a.m. the Aerial Review will begin.

9:45 a.m. - Various types of air-planes used at the Air Corps Advanced Flying School will be on display in front of Post Operations Office for the inspection of spectators.

10:30 a.m. - Arrival of graduating class at Post Theatre,

10:45 a.m. - Beginning of graduation exercises

In addition to the thousands of spectators, a large number of distinguished military and civilian guests are expected on that date.

Upon receiving their wings as airplane pilots and their commissions as second lieutenants in the Air Corps Reserve, the Flying Cadets will be placed on ac-tive duty at Kelly Field for their initial active duty period. It is expect-ed that they will remain at Kelly Field until February 15th, by which time it is anticipated permanent orders will be received, and they will then proceed to their new stations in their extended active duty status.

The four Regular Army officers will be transferred from their present branches to the Air Corps and will be ordered to duty with tactical units of the Air Corps.

The six National Guard officers will, upon graduation, proceed to their home stations in accordance with instruc-V-7967, A.C.

tions of The Adjutants General of their respective States.

ROSPER OF PROSPECTIVE GRADUATES Regular Army Officers

Atmore, Ala. Broadhurst, Edwin B. ** Inf. Madison, Fla. Sebastian, Henry A. * Inf. Geinesville, Texas * 1st Lieut.; ** 2nd Lieut. All of these officer Nall, Eugene* Cav. Kelly, Colin P., Jr. ** Inf. Broadhurst, Edwin B. ** F.A.

Military Academy, West Point, N.Y., Lieut. Sebastian in June, 1934; Lieut. Nall in June, 1935; Lieuts. Broadhurst and Kelly in June, 1937. All of them specialized in Bombardment Aviation.

National Guard Officers - 2nd Lieutenants

Moline, Ill. Railsback, John Benjamin University City, Mo. Philadelphia, Pa. Hughey, Robert Jerome Huston, Vincent George Dunning, John Affleck Cantrell, Raymond Lee San Antonio, Texas Spokane, Wash. Spokane, Wash. Jones, Robert Lee

All of these officers specialized in Observation Observation and are members of Air Corps National Guard units of the States as hereinafter indicated, viz: Lieuts. Huston and Rails. back, Pennsylvania; Dunning and Hughey, Missouri; Cantrell and Jones, Washington.

Flying Cadets

Attack Aviation

Ellison, Holden Fowler Yarbrough, Eugene Terry Breckenridge, John Preston Galusha, Henry Leslie Terry, David Dickson, Jr. Gilmore, Jean Dowell Hall, Byron Eugene Lanford, Wm. Archibeld Oliver, Ralph Lorimer Smith, Weldon Halliwell de Russy, John Huie Carmack, John Edgar Allen, Frank Holt, Harry Joseph Lewis, Dwight Francis Coyle, Lawrence William Thornbrough, George Wayne Barrow, Leonard James, Jr. Philbrick, Frederick Neil Birchard, Glen R. McClure, William Allen Compton, Keith Karl McKee, Seth Jefferson Bloszies, Raymond Fred Gutru, George Henry, Jr. Saunders, Jack William Johnson, James Allison Von Tungeln, Herbert A. Willsie, Harold Giannatti, James Teats, Edward Charles Looke, Cecil James, Jr. Crabtree, Martin P. Sneed, Charles Roy Jenkins, Jack Simmons Lane, William, Jr. Dunn, Frank Lowry King, Henry Preston Hubbard, William Edward II

Altoona, Ala. Guntersville, Ala. Paragould, Ark. Little Rock, Ark. Little Rock, Ark. Anderson, Calif. Campbell, Calif. Wood Lake, Calif. Palo Alto, Calif. Berkeley, Calif. Washington, D.C. Decatur, Ga. Chicago, Ill. Great Lakes, Ill. Corning, Iowa Coffeyville, Kans. Lakin, Kans. New Iberia, La. Brookline, Mass. Bay City, Mich. Royal Oak, Mich. St. Joseph, Mo. Illmo, Mo. Omaha, Nebr. Newman Grove, Nebr. Athens, N.Y. Wagoner, Okla. Norman, Okla. Asher, Okla. Uniontown, Pa. Pittsburgh, Pa. Austin, Texas Decatur, Texas Evant, Texas Levelland, Texas Marshall, Texas San Antonic, Texas San Marcos, Texas Marshall, Texas Ian Antonio, Texas San Marcos, Texas Sweetwater, Texas Waller, William III -2-

Barksdale, William S., Jr. Mathewson, Philip Lembeth Hindson, William Simms Wrigglesworth, William J. Stinson, William Immett Potter, Philip Orville

Bombardment Aviation

Chaffin, Harold Newt Sheffield, Charles Paul Ford, Ernest Gordon McCauley, Clarence V. Wilson, Harold Frederick Manson, Hugh Boyd, Jr. Peffer, David McNair Holsteen, Theodore F. Neely, Clarence Arthur Frice, Bruce Burns Berry, James Dean Crouch, Robert Edward Stansbury, William G. Schofield, Parker F. Dougherty, John Eugene Harman, Harold M. Spencer, Truman A., Jr. Doerr, John Joseph Heber, Malcolm McMillan O'Neill, Brian Busse, Raymond Joseph Gould, Campbell Henderson Keiser, Donald McKay McNeal, Thomas Carl Worley, Earl Wilson Stiles, Joseph Erhart Aylesworth, Theodore R. Chiles, Clarence Shipe Smelser, Harold Caldwell Morgan, Maurice Allen Banks, Wilson Harper Barksdale, Ralph 1. Bogan, Charles William Glober, George Edward Busch, Chester Charles

Fletcher, Thomas, Jr.

Bichmond. Va. Oeld Hill", W. Va. Eau Glaige, Wis. Sao Paulo, Brazil Fort Smith, Ark. Mt. Ide, Ark. Pacific Beach, Calif. Armona, Calif. Los Angeles, Celif. Jacksonville, Fla. West Lafayette, Ind. Burlington, Iowa Se Ames / Lowe Sac Gity, Iowa Gridley, Kans. Mt. Washington, Ky. Malden; Mass. Minnespolis; Minn. Gredits, N.M. Carrigozo; N.M. Poughkeepster N.Y. White Plains, N.Y. Yonkers, N.Y. Glenburg N.D. Toledo, Ohio Whitemb, Ohio Cleveland, Ohio Littlestown? Pa. Red Lion, Pa. Knozville, Pa. Corryton, Tenn. Nashville, Tenn. Austin, Texas Brownfield, Texas Gainesville, Texas Milein, Texas San Angelö, Texas Lenosha, Wis. Observation Aviation 1 Scott & EArk. Berkeley; Galif.

Chicago, Ill

Chicago, Ill.

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Randolph, Va.

Edwards, Albert Benton, Jr. Babb, Harold Thaddeus 15 IC Daltion, Ge. Goomarge, Ga. Holbrook, Thomas Harber Chicago, Ill. Jarek, Frank William Setchell, James Frederick Wiltjer, Clarence P. Humfeld, Harold Emmett Matseka, III. Anthony: Mans. Louistille, Ky. Wright, Adolf Milton Ritzabeth, N.J. Rochester, N.Y. Buffald, N.Y. Cleveland Netghis, Ohio Dechaene, Andre J. Rouse, John Albert Schroeck, Franklin E. Tucker, Theodore W. Carter, Roy Milton Britton: Okla. Veatch, Bernard W. San Antonio, Texas Seattle, Wash. Grafter, W.Va. Gimble, Sidney Bruce, Jr. Gustafson, Roy William Marshall, Charles S. Pursuit Aviation Gray, Leon Welton Parker, Kingsbury E., Jr. San Francisco, Calif. Atlanta, Ge. Chicago, Ill. Chicago, Ill. Turner, Sullins Preston

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Wilmot, Woodrow Burton Beightol, Willis Eugene Van der Zee, John Jacob . 34 Mayden, Jones Daniel McNay, Joe Kenneth Mcore, Paul L.G. Howard, James Alva Hardy, Otha Bennett, Jr. Bourgoin, Reoul Joseph Barnathy Temes Alex Bruce James R., Jr. Evans, John Scringeour Randelly Heman Ward, Jr. mon Mualler, Robert Burl Americong, George Herbert Morrissey, Robert Lawrence Romborg, Edgar Allen Tendnich, Charles Nelson Radell, Raymond Frank . BROWA Delmer Norris Brownership John L. DeBolts Arthur Ray Cleveland Heights, Ohio Lakewood, Ohio Grambe, Frederick C. Newmang-Mail Arnold Opeil: Charles Martin Rowland, Robert Richard Spurgeon Raymond R. Brewer, Paul M., Jr. Dicke Newton Robert Jacksony J. Garrett Storm, Leonard Boston Summers, Thomas B. Baggler a Robert Lee Ciars; Sugene Louis Compiliershall Pyron Smillershall Columbus FaulknerawGecil Lee Strightende Eugene L. Gayle, Gharles Afton Henry, John Bailey, Jr. Bond, Charlie R., Jr. Riddle, Kyle Loyd Jenkins, Härry Albert . Schriever, Gerhard John Tinker; Clarence L., Jr. • Wansachen, Robert D. Monver; William Wallace L. Giblum, Virgil Monroe Marcunt Jake McDonald . ansMooreodArchibald Woodrum Muffell fu Garrell T. Softh a Thomas Cullen Weitman Sohn William Whatenans Harold Jennings Wood Custis Edward 9984 shis listed above who hold commissions in the Reserve of other branches of the service are 11sted below, as follows: Infentery Ist Lieuts. Cellini, Fendrich, 2nd Lieuts. Busch, Ford, Gould, McCauley, McNay, Riddle, Worley. Cavalry: List Ment, Harman, 2nd Lieuts, Thornbrough, Field Artillery: Ist Meuts, Fletcher, Von Tungeln, 2nd Lieuts. Gerratt, Neely, Schroeck, Schwind.

Duchap; Ill. Webster City, Iowa Iowa City, Iowa Junction City, Kans. Louisville, Kans. Wichita, Kans. Bowling Green, Xy. New Iberia, La. Frenchville, Me. Detroit, Mich. Seginaw, Mich. St. Paul, Minn. St. Paul, Minn. St. Joseph, Mo. Billings, Mont. Tecumseh, Nebr. Lincoln, Nebr. Staten Island, N.Y. Buffalo, N.Y. Devils Lake, N.D. Bexley, Ohio Columbus, Ohio Cleveland, Ohio Lodi, Ohio Cincinnati, Ohio Oklahoma City, Okla. Tulsa, Okla. Altus, Okla. Norman, Okla. Weatherford, Okla. Ardmere, Pa. Clairton, Pa. Arlington, Texas Brownsville, Texas Bellevue, Texas Arlington, Texas Bellaire, Texas Charlotte, Texas Dallas, Texas Decatur, Texas Montalba, Texas San Antonie, Texas Cumberland, Va. Arlington, Va. Fort Belvoir, Va. Seattle, Wash. Shinnston, W.Va. Hamlin, W.Va. Huntington, W. W. Barrackville, W.Va. Marlinton, W.Va. Rowlesburg, W.Va. Selem, W.Va. Huntington, W.Va.

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Coast Artilleryh

2nd Lieuts. Barksdale, Wm. S., Jr.; Dick, Mayden and Teats.

When this class started training at the Air Corps Advanced Flying School, it comprised 176 members. The reduction by five students at graduation time is accounted for by the fact that one Flying Cadet (Ferrell Duglas Hooks) was killed in an airplane accident; three Cadets were discharged for failure to make the necessary progress, and one lost so much time due to illness that he will probably be held over for the next class.

The State of Texas has by far the largest representation of native sons in the graduating class. The Texans in this class number 26. The States of Ohio and Illinois have 11 students each; California and West Virginia 10 each; Oklahoma, 9; New York and Pennsylva-nia, 8 each; Kansas, 7; Arkansas and Iowa, 6 each; Virginia, 5; Georgia, Kentucky, Michigan, Nebraska and Washington, 4 each. Other States represented have three or less students.

Chicago, Ill., with 7 students, leads the cities represented in the graduating class. Her nearest competitor is San Antonio, Texas, with 3 students.

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NEW CARGO PLANES FOR KELLY FIELD

The Correspondent of the Air Corps Advanced Flying School reports that information was recently received at Kelly Field to the effect that ten Lockheed C-404 airplanes are being assigned this School for student twin-engine training. He adds that all personnel at this field, and particularly the Bombardment Section, are looking forward with a great deal of interest to receiving this modern type airplane from the Lockheed Aircraft Corporation, Burbank, Calif., at an early date.

KELLY FIELD INLISTED MEN TRANSFERRED TO COMMUNICATIONS SQUADRON.

Orders were received recently from the War Department directing the transfer of the following-named enlisted men from the 12th Air Base Squadron, Kelly Field, Texas, to the 3rd Communications Squadron. All transfers were made without less of grade and/or Specialist or Air Mechanic rating, viz:

Staff Sgt. Francis Le Doux Sergeant AM 1st Class Kenneth W. Klise Sergeant AM 1st Class Jess R. Guthrie Private Spec. 2nd Cl. Oliver D. Gassett Private 1st Class, Specialist 4th Class, John H. Carswell Private 1st Class, Specialist 4th Class, Charles M. Toon Private 1st Class, AM 2nd Class, Bruce T. Canady

Private, Specialist 6th Class, Walter M. Mayer

Private 1st Class, Specialist 1st Class, Bertran Chedester.

These men will remain on duty at KellyField. V-7967, A.C.

AIR CORPS ACTIVITIES IN HAWAII

With the beginning of a new year, many things new and different are to be noted. The major change resulted from the 1sau-The major change resulted from the issu-ance of General Orders No. 1, Headquar-ters 18th Wing, Air Corps, for 1939. In accordance with this order, the commands of Luke and Hickam Fields are combined under the Commanding Officer, Hickam Field, and the Headquarters of the 5th Bombardment Group moved to Hickam Field. Colonel Shepler W. FitzGerald took

over the combined command on the first of January, and Lieut. Colonel Walter F. Kraus assumed command of the 5th Bombardment Group on the same date. The move-ment of the Group Headquarters to Hickam Field will facilitate administration, since prior to this time the "administra-tive" section operated at Luke Field and the operations and materiel sections functioned from Hickam Field.

The new year also finds the training program of the Group accelerated and enlarged. Schools in Navigation, Bombing and B-18 Transition for new officers and in Bombardment and Reconnaissance Aviation and Air Force for all officers will occupy at least four afternoons per week for the next three months. Much progress is being made toward the end that every mission will include dropping of some bombs.

The 72nd Bombardment Squadron is now busily engaged in preparing for the training of personnel in Aerial Gunnery. The Squadron recently completed its training of personnel in record bombing. Very satisfactory results were obtained from this bombing training.

During December, the 50th Reconnais-sance Squadron continued dead reckoning navigation. Practice bombing was con-

ducted jointly with navigation, using the Morse Field and Anue Point targets. On December 14th, the Squadron held a unit exercise with two airplanes and crews attached from the 4th Reconnaissance Squadron. The problem included reconnaissance search and patrol methods at sea, combat bombing and gunnery, and a test of squadron communications facilities.

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Lieut. Colonel Coleridge L. Beaven, Medical Corps, is relieved from duty at the School of Aviation Medicine, Randolph the School of Aviation Medicine, Randolph Field, Texas, effective about February 15, 1939, and assigned to duty in the Office of the Chief of the Air Corps, Washington, D.C. Colonel Beaven returns to familiar stamping ground, as some years ago he served a tour of duty in the Medical Section of the Office of the Chief of the Air Corps Chief of the Air Corps.

COMBINATION INERTIA AND DIRECT CRANKING STARTER. The 2nd

Laboratory tests at the Air Corpe Hateriel Division, Wright Field, Devich, Ohio, have been completed on a new type combination inertia and direct cranking starter. This starter is di-signed to operate either as a straight inertia starter, a straight direct of cranking starter, or a combination of both. It is of the inertia type: that is, the flywheel is energized either by hand or electrically, and the switching arrangement is such that, after the flywheel is energized, the starter the flywheel is energized, the starter can be meshed with the engine and the cur-rent held on the motor. The energy stored in the flywheel breaks the shi-sing loose and brings it up to cranking speed, from which point the starter is sufficiently large to continue the cranking. On warm engines the inertia principle need not be used. The switch can be thrown "full on" and the pers-tion of the starter will start immedi-ately. oranking starter. This starter fordaately. TOW STRO

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"WEST POINT OF THE AIR" IN STATE OF TEXAS MOVIE. .9311 -1

Texas' exhibition at the coning World's Fairs, both at New York and San Francisco, will be a continuous showing of a full length technicolor motion of a full length technicolor motion picture, depicting the beauty spots of the Lone Star State. The Air Corps Primary Flying School, one of the show places of the State, undoubtedly will play a prominent part in the production, for a three-man camera crew from the Fitzpatrick studios, in Hollywood, pro-ducers of the film, visited Randoppi Field on three occasions to record in full color the story of Randolph Field, the Flying Cadets, and the 300 sizethe Flying Cadets, and the 300 airdent training.

dent training. The finished picture will be shown in two specially constructed theaters, one at each fair. According to estimates of the Texas State Fair Countission, the picture will be viewed by more people during the two Fairs than it would be were it released on a national basis. "In connection with the publicity value of this picture to the Air Coups generally, there have been numerous news pictures published from time to

generally, there have been numerous news pictures published from time to time in papers throughout the nation concerning Randolph Field." the Navs Letter Correspondent states, and he makes the request that such clippings regarding Randolph Field as come to the attention of Air Corps personnel be forwarded to the Public Relations Offi-cer at that station. cer at that station,

V-7967. A. G.

The 2nd Observation Squadron, Air Corpse Nichols Field, Rizal, P.I., con-ducted its annual 15 days of field train-Corps Nichols Field, Highl, P.1., con-ducted its annual 15 days of field train-ing during the period from November 28 to December 12, 1938. Del Carmen, Pam-panga, about 75 kilometers north of Manila, was the base of operations. The strength of the command in the field was 9 officers, 96 enlisted men (6 of whom were strached) and 9 airplanes. These Planes comprised 6 0-46's and 3 0-19's. The trip to Del Carmen was made by airplane and truck convoy. The commis-stoned personnel were housed and messed in the Fampanga Sugar Central Club. The enlisted men were quartered in a large boddes (warehouse) belonging to the Central, Administrative, Supply, Opera-tions, Radio, Photographic and Mess Sec-tions, were established in the immediate vicinity, and all departments functioned satisfactorily. The Del Carmen landing field, located about a mile from the Squadrot headquarters, was utilized for landings and take-offs. Reconnaissance cars were used to transport personnel to and from the field. With the exception of one day of rain. and from the field.

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With the exception of one day of rain, and a typhoon threat which did not mater-ialize, the weather was ideal. All fly-

sive defense in the field were adopted. These included dispersion and conceal-ment on and near the landing field, ca-moutries and organization for anti-air-craft defense. Camouflage nets were used in wone cases incident to airplane con-cealment. While in the field the organization was inspected on December 7th by Major General John H. Hughes, Commanding Gen-eral, Philippine Department; Lieut, Colonels Ralph Royce, Department Air Of-ficer, and William H. Crom, Commanding Officer of the 4th Composite Group. All expressed themselves as highly pleased with the encampment and the efforts that had been made for the care and comfort of the enlisted personnel.

Some of the Squadron athletic equipment had been brought from Nichols Field, in-cluding golf sets, volley ball and in-door baseball. In addition, the Nichols Field Post Exchange operated a branch adjacant to the bodega where the men were

quartered, and all sundries were available without leaving the area. ry was also provided. A libra-

General Hughes was also enthusiastic in his comment regarding the shower baths which had been devised prior to the maneuvers for use in the field, and he said that was field soldiering de luxe.

The officials of the Pampanga Sugar Central cooperated to the fullest extent in making the camp a success. Their two golf courses were available to all. They installed telephones where needed, provided electric power for the radio section when the Squadron plant was temporarily out of commission, etc. They also furnished guides for those who expressed the desire to be conducted through their huge plant to observe the mechanics of sugar making. Many took advantage of this opportunity, and it was a never-to-be-forgotten experience

Officers on the maneuvers were Major Lloyd C. Blackburn, Squadron Commander Captain Alden R. Crawford, Adjutant and Operations Officer; 1st Lieut. Tom W. Scott, Engineering Officer; 1st Lieuts, Charles B. Harvin, Assistant Engineer-ing Officer; Harry N. Burkhalter, Jr., Assistant Operations Officer; Henry B. Fisher Percebute Officer: Andrew Assistant Operations Officer; Henry B. Fisher, Parachute Officer; Andrew Meulenberg, Photographic Officer; 2nd Lieuts. James R. Gunn, Mess Officer; and Edward W. Maschmeyer, Assistant Mess Officer. Second Lieut, Carl K. Bowen, Jr., of the Squadron, was unable to participate in the maneuvers, he being a patient at Sternberg General Hospital convalescing from a leg injury sustain-ed in September. Incidentally, he re-cently returned to duty and resumed his office as Assistant Operations and Communications Officer.

MORE GRADUATES OF REFRESHER COURSE

The following-named second lieutenants of the Air Reserve (non-graduates of the Air Corps Training Center), who have been undergoing a course of in-struction for Air Corps Reserve offi-cers at the Air Corps Advanced Flying School, Kelly Field, Texas, satisfacto-rily completed the course in Bombard-ment on January 21, 1939, and are awaiting permanent assignment orders: Norman K. Warner, Cloyce J. Tippett and Charles W. Maynard.

Seven additional refresher students are pursuing the course at Kelly Field and are expected to complete same at an early date. These seven students are specializing in the various branch-es of combat aviation, as follows: one Attack, 2 Purguit, and 4 Bombardment. -000---

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Chanute Field was visited by the red tongue of Demon Fire on Sunday, January 16, 1939. At about 5:15 p.m., an explosion was heard in the Air Corps Supply Warehouse, Building #53, and immediate investigation disclosed that the building was afire.

The fire was discovered in the east end of the building amid dense smoke that prevented fighting the flames from the inside of the structure. It was believed to have originated in the vicinity of the clothing or rubber storage. At-tempts to reach the blaze from the outside quickly spread the fire throughout the old frame structure, and within a comparatively short time the building

was ablage. The local fire Department immediately responded and made heroic attempts to save the property, but were unable to cope with the situation, due mainly to the age of the building and the type of its construction. This was one of the original buildings erected at Chanute Field during 1917. The fire quickly jumped the intervening space between the Air Corps Supply and the Fire Station-

Guard House, and shortly thereafter the latter building was on fire which was soon also out of control. Upon arrival on the scene, Major William A. Worley and Captain DeWitt T. Mullett, Quartermaster Corps (Fire Mar-shal and Assistant Fire Marshal, respec-tively) requested the assistance of the shal and Assistant Fire Marshal, respec-tively), requested the assistance of the Rantoul, Paxton, Champaign and Urbana Fire Departments, and all of these re-sponded. These fire companies function-ed under Major Worley, and largely through their splendid efforts it was possible to confine the blaze to Build-ings Nos. 50 and 53. On numerous occa-sions the Post Headquarters Building was en the point of bursting into flames, but on the point of bursting into flames, but a timely wetting saved the structure. All property had been removed from Head-quarters and the Photo Hut, and crews were standing by to evacuate Hangars Nos. C, 8A, 9A and the Technical School Headquarters Building should they be endangered.

The loss of the Air Corps Supply is a serious one, and provisions have been made to house this important activity in a metal hangar pending the completion of the new construction recently authorized by an act of the last Congress. The new construction is rapidly taking shape, but the warshouse cannot be occupied until such time as the heating plant is completed and in operation. The thanks of the command are due the

Fire Departments and City Fathers of Champaign, Urbana, Paxton and Rantoul, and are cheerfully given. It is doubt-ful if the fire could have been successfully combatted without the valuable asSlying Ga

sistance given by these gentlement sistance given by these gentland As usual in most disasters, the tale-phone operators maintained that the tions throughout the fire. The switch-board is located in Post Headquartars and great clouds of smoke shroudad the structure for more than two hours, wat these operators managed to carry on and maintain communications. At one point it was impossible to remain on duwy more than two minutes without relief. These men are especially descrying of commendation for their devotion to commendation for their devotion dto dash duty:

Sergeant Floyd Brickson, Signal Corps, Privates Merle Yard, James Keylsh

B.L. Benson, Signal Corps, and Signal Private Dale Rotz, Air Corps, student, Class 10, Radio, 2d Trans. Squadren, and Middletown Air Depot.

No estimate has been made of the loss, as practically all records were destroyed. A board, composed of Majera James B. Carroll, Roy A. Camblin and Captain Edgar T. Noyes, Air Corps, has been ap-pointed to report upon this matter. ----000----แสรณวิช สวัน

"PEA-SHOOTERS" PLEASE LANGLEY PURSUITERS

The 35th Pursuit Squadron, Langley Field, Va., is very much pleased with the performance of the pea-shooters (P-36A's). The ships, it is stated, are exceptionally fast and are set handled, which is what the Squadron has been wishing for all along, for y three have been received so far, but the others are expected in the werk near others are expected in the very near future.

future. The Correspondent of the 25th Purshit Squadron, Langley Field, states that every member of this organisation. from the lowest ranking private to the Com-manding Officer, has a feeling of superiority each time he sees a new P-36A rolled into the hangar for perma-nent assignment, for, he adds, "it has been quite a while since the 36th has had reason to beast of having real had reason to boast of having real. honest to goodness Pursuit airplanes and new ones at that. And there is a possibility that we will soon haven enough for each pilot to be assigned to one. This, we know, will greatly in-crease the efficiency of the Soundron, as we have been operating with only half the number of airplanes, we needed."

----000----- EA", brawepH During the month of Decembers, 1938, the Engineering Department of the San Antonio Air Depot, Duncan Field, Texas, overhauled a total of 10 airplanes and 51 engines, and repaired 48 singlanes and 11 engines.

ation Meda V-7967-10C.

ATTA YATAN

KELLY FIELD CADET LOSES LIFE IN CRASH

Vlying Gadet Ferrell Duglas Hooks, 22, of Lamasco, Kentucky, a student in the Bombardin at Section of the Air Corps Advanced Flying School, Kelly Field, Texas, was the victim of an unfortunate airplane Actions which occurred about twelve miles Southeast of San Antonio, Texas, on Saturday morning, January 14, 1939. Cadet Hooks mad been on an instrument test flight with his instructor, 1st Lieut. Laurence B. Kelley, Air Corps, in a BT-2 airplane, when the crash occurred that claimed this student's life, According to Liedt "Kelley's account of the accident," he moticed that his student, who was under the base of clouds about 4500 feet when he moticed that his student, who was under the hood, had placed the plane in a gentle climb. He instructed the student, yis interphone, to nose it down a bit to avoid getting into the clouds when, without warning, the plane made a sudden lange into a vertical nose dive. The instructor remembers that he reached for the plane. Lieut Stick and throttle, without Sticks, and was catapulted forward out of the plane.

Lisut Relley descended safely with his chute and saw the plane continue in its vertical dive and hit the ground with terrific impact. The plane did not catch fire.

catch fire. It is impossible to determine the cause of this accident, due to the demolified condition of the airplane, declares the News Letter Correspondent. Ne adds that Cadet Hooks was considered an "Batove average" student, particularly in his flying under the hood. This student attended Western Kentucky

This student attended Western Kentucky Teachers College from September, 1935, to February, 1938, before going to Randolph Field for training. He reported at Eelly Field on October 8, 1938, for advanced training, and was scheduled to graduate with the present class on February 1, 1939. He is survived by his parents, Mr. and Mrs. Luther B. Hooks, of Lamsson, Kentucky. The personnel of Kelly Field and the entire Air Corps extend their sympathy to his parents in their bereavement.

their bereavement. Fundral services for the deceased Flying Cadet were held in the Hanovan Fundral Parlors, San Antonio, Texas, at HOO Dim., January 16, 1939, and were attended by the faculty of the School while all evailable members of his class. The remains were escorted to Eddyville, Kentucky, by Flying Cadet James Alva Howard, Air Corps, who was Cadet Hooks' classmate at Western Teachers College as well as at Randolph and Kelly Fields. ---000----

Lieut Colonel Fabian L. Pratt, Medical Corrections been relieved from duty at Hamilton Field, Calif., and assigned to duty as Commandant of the School of Aviation Medicine, Randolph Field, Texas, concessing Lt. Col. Coloridge L. Beaven.

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REUNION OF KELLY FIELD "GRADS"

Plans were projected for the holding of a reunion of the February, 1929, class, which graduated from the Air Corps Advanced Flying School at Kelly Field, Texas, in February a decade ago. This class, which consisted of 4 Regular Army officers and 82 Flying Cadets, Air Corps, on its day of graduation on February 15, 1929, has been invited by Colonel Frank D. Lackland, Air Corps, Commandant of the School, to hold its Reunion at Kelly Field. Incidentally, this is the first "home coming" of its kind to be held at that field, First Lieut. William L. Lee, Air Corps, for-... mer Chief of the Fhilippine Army Air Corps, and a member of the February, 1929, class (who is new stationed at Kelly Field), was placed in charge of making all the arrangements, and from all reports the Reunion should prove a huge success.

huge success. The program includes the attendance of the "Grads" in a body on Wednesday, February 1, 1939, at the graduation aerial review and ceremonies of the present class now undergoing instruction at Kelly Field; several short business sessions - at which time the election of class officers will be held - a reception, and several other very interesting events.

The hope was expressed that all visiting "Grads" will be accommodated in the Visiting Officers' Quarters during their three or flore days' stay at the home of their "Alma Mater," where just ten years ago they, like the youngsters of the present class, experienced the thrill of a lifetime when handed their graduation diplomas and "wings" upon the completion of the very stiff course of instruction at the Army's very exacting Air Corps Advanced Flying School.

The present class, No. 39-A, consists of 4 Regular Army officers, 6 National Guard officers, and 161 Flying Cadets the largest class in the history of the Air Corps Training Center.

Lieut. Lee was successful thus far in locating all but 30 of the 86 members who graduated with him, and from all indications a large representation will arrive by air and other modes of transportation to attend the Reunion, during the course of which it is expected that a great deal of reminiscing and "hangar flying" will be the order of the day.

a great deal of reminiscing and "hangar flying" will be the order of the day. It is interesting to note that 37 of the graduates are still in the Regular Army Air Corps, serving at far-flung posts throughout the United States and en foreign service; one is now serving in the Cavalry, having transferred to that branch due to physical disqualification for flying; nine have lost their lives in airplane crashes after graduation; two resigned from the Army to pursue civilian occupations; one retir-(Continued on Page 9). V-7967, A.C.

RESERVE ACTIVITIES AT OAKLAND AIRPORT

The 92nd Training Group (Air Corps Re-serve), operating at the Oakland Municipal Airport, Oakland, Calif., with Cap-tain George E. Henry, Air Corps, Unit Instructor, and twenty enlisted men from the 9th Corps Area Air Corps Detachment doing the chores for 165 Reserve offi-cers, 23 Enlisted-Air Reservists; 7 BT-9 airplanes, 2 BT-2 airplanes and an 0-47A airplane, which is assigned to the Comairplane, which is assigned to the Commanding General, 9th Corps Area, takes a breather and reports:

breather and reports: That from July 1, 1938, to December 1, 1938, 40 Air Reserve, Group I pilots com-pleted tours of active duty of 14 days each. The 40 pilots on active duty flew approximately 1410 pilot hours during their tours of duty, in accordance with the training program in effect at this station, and this flying time was dis-tributed as follows: tributed as follows:

Basic instrument flying under hood . 241 hours Radio Orientation under hood 191 H Ħ Instrument flying instructor 431 Aerial gunnery on ground . . . 192 u targets . Night flying proficiency and navigation tt 204 152 Ħ Formation A total of 70 Air Reserve pilots en-gaged in inactive flying training at this station during the period from July 1 to December 31, 1938, flew a total of approximately 1323 pilot hours on missions listed below: Pilot proficiency Air Navigation, Radio 350 hours 215 a . . . Air Navigation, Miscella-Ħ neous. 314 • • • • • • Formation Flying 11 143 Instrument Flying under hood and Instrument Instructor 302 The total aircraft hours flown during active and inactive training during the period from July 1 to December 1, 1938,

Was:

Active duty trainees . . . 1082 hours Inactive training 1095 "

The calendar year 1938 passed on with-out any injury to flying or ground per-sonnel. Aircraft damage totaled but one damaged wing and two scratched wing tips on account of ground loop as the result of pilots quitting flying before their airplanes were safely in the hangar.

In concluding the above summary of the flying activities at the Oakland Airport the News Letter Correspondent states:

"This operative would not dare to re-fer to climatic conditions of this part of the country or to a new Island located in San Francisco Bay, called 'Treasure Island, ' where, according to reports, there seems to be much activity and feverish resolve of exhibitors and fan dancers to start off with a bang on Feb-ruary 18, 1939, to open what is called 'The California World Fair, 1939.' It is

anticipated that numerous Air Corps pilots on radio air navigation training flights will be anxiously listening for 'OA' and discover that they will just have time to 'take in' the Faff? They can then return back East and inform the people around New York City to Go West and see a Fair. ' (No pite for Treasure Island meant, but OUR Tair is going to be something no one should miss)."

.930700 ----000---ismute!

KELLY FLYING CADET IS PROMINENT ATHLETE By the Kelly Field Correspondent

It's a long way from knocking a puck around on a Canadian ice hockey rink to around on a Canadian ice nockey rink to winging your way across the skips in one of Uncle Sam's Pursuit ships that that is the road traveled by 'Flying' Cadet Raoul JosephBourgoin, 'Flying' Cadet class.

Back in 1933, when Bourgoin strapped on his skates for the last time for St. Joseph's University of Moocton, N.B., Canada, he little dreamed that today he would be looking forward to replacing those silver skates with a patr of Uncle Sam's coveted silver wings,

Bourgoin, who is a native of French-ville, Maine, attended St. Joseph's University for three years. He then enrolled in the Madawuaska Normal Training School and two years later left there to continue his studies at the University of Maine. He was graduated from the University with a Bachelor of Science degrae. Science degree.

Science degree. During his toils for an education, Bourgoin took time out for athletics and probably earned letters in more sports than any other Cadet now train-ing at Kelly Field. In addition to being active in the sports tommonly known to the American youth such as football, basketball, baseball, then is and track - he participated in flugdy, ice hockey, and the winter carnity is that are so dear to the hearts of those in the north. in the north.

In the winter carnivals he won honors in the ski jumping, racing, and cross-country events. He was an eager parti-cipant in the snowshoe obstacle rate, ice skating, and the sprints is a first After graduating from college Bour-goin accepted the role of testing and coach in a high school at Dover the Foxcroft. Maine. Here he manned Boren

coach in a high school at Dover-Foxcroft, Maine. Here he earned a repu-tation by coaching both his football and basketball teams to chamilonedips. During the summers he worked as a field Cross examiner. One summer, while talking over old times with an atoma Tau Omega fraternity brother, he learn-ed of the "West Point of the first at Randolph Field and the training given young men by the United States Governyoung men by the United States Govern-(Continued on Page 9.) V-7967, A.C. -8-

Major Walter K. Burgess, Commanding Officer, Headquarters Squadron, 1st Wing, recently had an opportunity to remember and, use tricks of horsemanship he learn-132 ed during his youth in the cattle country of Eastern Oregon. This time, however, Major Bargess' horse was an automobile, and the object of his pursuit a large

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Returning to March Field from Riveraide one day not long ago, Major Burgess noticed a covote run across the highway and enter a large, unfenced stubble field near which some sheep were grazing. Driving off the road, through the shal-low ditch and into the field, Major low ditch and into the field, Major Burgess took up the pursuit, riding off-side on the swiftly running coyote, and soon getting him into a mill. For the first three minutes of the chase, the coyets's speed was 30 miles an hour, ac-cording to Major Burgess' speedometer. Running in wide circles, the coyote kept looking back over his shoulder. He would feint a turn in one direction, but execute it in the opposite direction, while always the automobile would stav while always the automobile would stay to the rear and the left of him, forcing him into tighter and tighter circles. After six minutes the coyote's speed dropped to 20 miles an hour. This grad-ually decreased until, at the end of 20 minutes, he was running about 6 miles an hour.

During all this time, Major Burgess kept in the off position to the left side and in the rear of the animal, closing the mill until the circles were not over a hundred yards in diameter. At the end of twenty-two minutes, the covote, still gamely trying to elude his pursuer, had slowed down to a mere stag-ger. Then, his tongue hanging out, his body exhausted, he fell directly in front of the oncoming car. Thrilled by the covote's game efforts adding. Major Burgess was sorely

Thrilled by the coyote's game efforts to escape, Major Burgess was sorely tempted to let him go, but the fact that coyote have done so much damage to poultry and small domestic animals on farms in the vicinity of March Field, prompted him to run over the prostrate animal. Thus, the coyote died, a victim of the very method employed by it in slaying sheep and other small animals. The coyote, which weighed more than 35 pounds, was turned over to Major Bower.

pounds, was turned over to Major Bower, March Field Veterinary. When Major Burgess called the Riverside County Sheriff's Office, hoping to collect the 56.00 hounty generally paid for coyotes, he learned that payment had been discon-tinued last year due to lack of county

funds. This method of forcing the coyote into a mill while the pursuer stays on the Outside of his circle, pushing him in

tighter and tighter, is also used by two or more stockmen in running down and rounding up bands of wild horses and other wild animals. But this is probably the first time that an automobile has out-mastered a coyote at its own game. -----

Kelly Flying Cadet is Prominent Athlete

(Continued from Page 8)

ment. He resolved to take the exition for entrance, and arrived at Randolph Field last March. He is He resolved to take the examina-He is now a student in the Pursuit Section of the Air Corps Advanced Flying School at Kelly Field, and will soon be grad-uated. His ambition is to obtain a regular commission in the Air Corps and fly the latest Pursuit ships. ----000----

Reunion of Kelly Field Grads (Continued from Page 7).

ed from the service due to injuries received in an airplane crash; four are now flying for Transcontinental and Western Air Transport Company; and two are on extended active duty as Air Corps Reserve officers. It is believed that several are flying in one capacity or another in foreign countries

Very anxious to locate the thirty unaccounted for members of the class, Lieut. Lee has spread the word around that they communicate with him so that he may personally acquaint them with all of the details of the reunion. The entire personnel of Kelly Field anticipated with a great deal of pleas-

ure the honor and privilege of serving as host to the first Class Reunion of the Regular Army Air Corps.

KELLY FIELD OFFICERS DELIVER LECTURES TO MEDICS.

Four Air Corps officers on duty with the Air Corps Advanced Flying School, Kelly Field, Texas, were selected to deliver lectures at the School of Aviation Medicine, Randolph Field, Texas, as follows:

January 21st - "Organization and Employment of Observation Aviation, " by

Ist Lieut. Robin B. Epler. January 23rd - "Attack Aviation," by Captain Edgar R. Todd. January 24th - "Pursuit Aviation," by 1st Lieut. Marvin F. Stalder. January 26th - "Bombardment Aviation," by Captain Delmar T. Spivey.

NO CHENEY AWARD FOR YEAR 1938.

So high a standard of valor and selfsacrifice has been set in previous instances, when officers and enlisted men of the Air Corps and Air Reserve officers were presented with the Cheney Award, that the Board of Air Corps officers appointed by Major General Henry H. Arnold, Chief of the Air Corps, to select the person or persons most meriting the Cheney Award for the year 1938, decided after most careful consideration that the award for the past calendar year should not be made, and that the award fund should be maintained in the custody of the trustee.

The Cheney Award, which is given each year for the most outstanding act of valor or extreme fortitude or selfsacrifice in a humanitarian interest, not necessarily of a military nature, but which shall have been performed in connection with aircraft, was established twelve years ago in memory of 1st Lieut. William H. Cheney, Air Corps, who was killed in an air collision at Foggia, Italy, on January 20, 1918. The donors of this award are Mrs. Mary L.C. Scofield, of Peterboro, N.H., and Mrs. Ruth Cheney Streeter, of Morristown, N.J., the mother and sister, respectively, of the deceased officer. They have jointly set aside a trust fund of \$15,000, the interest accruing therefrom to be used to make the award, which is bestowed annually by the Chief of the Air Corps. The sum of \$500.00 goes to the recipient, along with a bronze plaque bearing the engraved name of the individual receiving it, together with a certificate of award.

Except for the years 1930, 1934 and 1937, when no awards were made for the same reason as that prevailing in the year 1938, the Cheney Award has been made annually since 1927. In the excepted years there were no acts or incidents which seemed exactly to fit the terms of the grant or distinctly to merit it.

Thus far, twelve individuals have been honored through the bestowal to them of the Cheney Award. Master Sergeant Harry A. Chapman, then of the 19th Airship Company, Langley Field, Va., was the first to receive this award, and it was in recognition of his heroism, presence of mind and extreme fortitude during the great catastrophe on February 21, 1922, when the Airship Roma crashed and burned. Sergeant Chapman received the award in 1927, and in subsequent years the honor has gone to Captain Uzal G. Ent, Air Corps, for 1928; to Captain William A. Matheny, Air Corps, for 1929; to 1st Lieut. Robert D. Moor (posthumously) and to Private John B. Smith, Air Corps, for 1931; to Private Arden M. Farley, Air Corps, for 1932; jointly to the late Lieut. W.L. Bogen and to Staff Sergeant Doy D. Dodd and Sergeant Thomas J. Rogers for 1933; to the late 1st Lieut. Robert K. Giovannoli for 1935, and to Major Frederick D. Lynch and Staff Sergeant Joseph L. Murray, Air Corps. for 1936.

Although the income from the trust fund exceeds \$500.00 per year, which is the amount of the cash donation which goes with the Award, unawarded sums are placed in a sinking fund for possible use in case more than a single individual in any one year is selected for the award, as was the case in several instances in the past.

COOPERATIVE MISSIONS WITH THE U.S.

On January 12th, under operations orders issued by the 19th Wing, ifr. Corps, airplanes of the 44th Reconnaissance Squadron at Albrook Field, and of the 7th Reconnaissance and 25th Bomoardment Squadrons at France Field, Panama Canal Zone, conducted the opening phases of a three-day mission in cooperation with the war vessels of the United States Fleet, en route to Caribbean waters for maneuvers. The long range reconnaissance planes reported the entry of the fleet into Panamanian waters and acted as a covering patrol as the ships made their way to the Pacific entrance to the Fanama Canal to await transit on the following day.

the following day. On the 13th and 14th of January, the 24th and 29th Pursuit Squadrons, and the 74th Attack Squadron took up, the covering mission at daybreak, reporting the passage of the fleet through the Canal. Constant patrols were maintained over all sections of the Canal throughout the daylight hours.

The chief purpose of the mission was to test existing communication facilities and to provide training in the use of codes. The fleet was scheduled to remain at anchor in Limon Bay on the Atlantic coast until January 19th, on which date planes from the 5th Bombardment Group at France Field ware scheduled to cover the sortie to one hundred miles at sea.

Flight Lieutenant R.A. Cameron, of the Royal Canadian Air Force, was a visitor at Kelly Field, Texas, January 5th and 6th, inspecting training methods and installations at the Air Corps Advanced Flying School. He came to Kelly Field after a tour of inspection of other Air Corps stations in the San Antonio area, and while at this field he was a house guest of Lieut. Vance.

Major Claude E. Duncan, Air Corps, was transferred from Mitchel Field, N.Y., to the Office of the Chief of the Airo Corps, Washington, D.C. V-7967, A.C. a niti sa

For some time the use of a pertion of the flying field on Sundays and holidays has been offered to the many Model Airplane Clubs in the vicinity of Moffett Fleid, Calif. As a result, hundreds of model builders, with their various types of airplanes, frequent Moffett Field every clear Sunday. One lad is doing outstanding work in model building. His name will not be mentioned but a description of the ship

One lad is doing outstanding work in model building. His name will not be mentioned, but a description of the ship he has designed, its flying characteristics, and future developments are here given.

given. First, it should be understood that this airplane has been completely conceived, plans drafted, and all construction actually done by its owner. It is of monocogue design, its wings being a slight modification of the gull-wing. It has a tricycle landing gear, which has sayed much damage to the airplane by preventing nose-overs and ground loops. The powerplant is a fifth horsepower notor and is very compactly placed in the nose of the ship. Fuel for the motor consists of a mixture of gasoline and seventy grade oil. The plane usually carries about two minutes' fuel; however, much more than this could be carried if there were some means of controlling the ship in flight, and thereby prevent drifting. The young designer is working on radio control in order to eliminate this trouble. Now for a brief description of the flight.

Now for a brief description of the flight. The minute engine is started and adjusted to an unbroken hum. Although the gusty wind would be dangerous to models having the conventional landing gear, the tricycle gear on this ship keeps it perfectly straight on the takeoff. A short run of fifteen yards and the plane leaves the ground, starting a slow, climbing turn to the left, for which it has been trimmed. A gust of which it has been trimmed. A gust of which drops a wing and the ship slips toward the ground, but the balance and right has been so well engineered that the slight amount of speed picked up straightens the ship immediately. Because of the strong wind, only 60 seconds of fuel has been put into the small tank, and after reaching an alti-

Because of the strong wind, only 60 seconds of fuel has been put into the small tank, and after reaching an altitude of about 75 ft., the motor stops. Breath is held and fingers are crossed in till the small craft starts its glide, and good reason too. Many model owners have watched their creations perform beautifully until the glide, and then have seen them start a dipping motion because the glide is slow, and at the last moment dive into the ground. Or, Derhaps one wing is slightly heavy, causing a steep spiral glide until the ship crashes in on one side. The owner of this ship apparently knew of these difof ficulties and by careful designing and construction prevented them, for his

By the Materiel Division Correspondent

Few people know or realize the degree of precision in design and construction necessary for the production of a satisfactory watch. The design, except for certain details of construction and materials, is very well standardized. Besides fine workmanship, however, detailed care in adjustment and regulation are required to enable the watch mechanism to give correct time indications.

The heart and brain of the watch is the escapement, which is controlled by the balance wheel. This little part does not weigh much, but every bit of that weight must be in a particular predetermined location. The design must be such that temperature and the "state of wind" of the mainspring will not affect an absolutely uniform rate of movement. This uniform movement insures accurate timekeeping.

In addition to the design and workmanship, the materials must resist wear to an unbelievable extent. All conventional watches are designed for 5 beats or ticks per second. In a day this means that the balance wheel has ticked off 432,000 beats, while in a year the number of beats is well over one hundred and fifty million. It is not uncommon for a pocket watch to indicate accurate time after twenty years of use. To enable it to do this it must, of course, have been cleaned occasionally. At the end of twenty years, the balance wheel has moved through the staggering total of over three billion beats. Accuracy to within a few seconds a day is usually expected.

onds a day is usually expected. Not only the precision built into a watch originally, but also the parts of a particular type of watch, must be interchangeable with any other of that type manufactured by the same company. To make this possible, all parts are made in machines or tools that must maintain the shape and size of the part to very close limits.

Very few people accord their watches the care required to insure a long and accurate life. Fortunately, watches are so constructed that they will withstand the shocks and jars incident to ordinarily careful handling.

The primary necessity for periodic cleaning is to remove the gum residue remaining after evaporation of the oil. The watch should be correctly oiled after having been thoroughly cleaned. The watchmaker knows that too much oil is as bad as no oil at all, because the oil may run throughout the movement and cause contacting parts to stick, or seep onto the hairspring and cause two coils to stick together. The result will be that the watch rate will change entirely.

entirely, (Continued on Page 12.) V-7967, A.C.

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Major George C. Kenney, Air Corps, Commanding Officer of the 97th Observa-tion Squadron, (Corps and Army) Air Corps, based at Mitchel Field, L.I., New York, has introduced to the Second Corps Area a system of flag signals in amplification of and as a possible substitute for the use of panels and pick up messages. This type of air-ground communication was originally used at Fort Benning, Ga., before being introduced in the Corps Area by Major Kenney.

During the past summer it was tested by the 97th Observation Squadron in field cooperative missions with various ground arm units, and appears to fulfill all the requirements of good air-ground communications.

Flag signals are executed by means of the semaphore code. If no flags are on hand, they may easily be improvised. Messages are sent from the vicinity of the identification panel of the sending

unit. Four signals only are required: (1) a dot, made by executing "D" of semaphore code:

(2) a dash, made by executing "R" of semaphore code;

(3) "End of Word," by chopping flags

vertically above waist; (4) "End of message," by moving the flags horizontally in front of the body from a dash position and back to the "dash" position several times in fast succession.

One man is required to send the message and another to read the message to him. In an emergency, one man will suffice.

From the air, procedure involves lo-cating the identification panel, receiv-ing the message, and dropping a written answer along with message received at panel station.

Flexibility and simplicity make the flag system more desirable than panels in many cases. It is much faster, and with very little preliminary training permits a speed of transmission of six to eight words a minute. A detail of two men can replace the six or eight men normally required for efficient panel communications. As a substitute for obtaining messages formerly received through the method of pick-up, it is superior in most instances. Troops on the march can signal from moving vehicles. Messages can be sent from almost any place, whereas pick-up requires open fields and clear approaches, often at a considerable distance from the Com-mand Post. Flag signals also avert the danger from the suspended hook to the ground troops involved,

A recent training circular of the lat Division at Fort Hamilton, New York, has described the system and designated the Division Air Officer and Division Signal Officer as the coordinating officers for

further testing and training in its use by all 1st Division units during airground communication cooperative mis-sions in the current training year. In addition, the 97th Observation Squadron has forwarded a description of the system to all Corps & Army squadrons and National Guard Observation units, with request that it be service tested and that a report of findings and recommendations be returned for use in determination as to the final adoption of this or other methods of communication. ---000----

Timepieces (From Page 11), J

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Care must be taken to prevent placing the watch in a strong magnetic field. If the watch has been inadvertently mag-netized, it will be noted that the nate is considerably off. It should that be placed in a demagnetizer or alternating current field to remove the magnetism. ---000---. si in2* .02

losi? Model Airplane Flying (From Page M1)

1.39T 20 airplane settled into a very stable glide. The landing was interesting to witness because of the new type landing gear. The forward wheel touched the ground first, then the ship settled on the two rear wheels. And, although the landing was made in a strong cross of wind, the tricycle gear prevented even a slight tendency to ground loop. The ship rolled to a stop, making the . flight so perfect that it was hard to realize there had been no pilet except

design and construction. And the provided and the second s controls on the ailerons and elevators.

Several men in the squadrons at a Randolph Field, Texas, have taken up model airplane building with surprising results, Among a half dozen motor jobs already completed, one hoasts an endurance record of 45 minutes in the air,

As a matter of fact, this spare time hobby has grown to such proportions that it has been necessary to curtail model airplane flying, due to the closeness of the hangar line and the inabil-ity of controlling the flight of a ---000---model in the air.

Major Romeyn B. Hough, Jr. having been found by an Army retiring board incapacitated for active service on ac-count of disability incident, there to, has been retired from active service, effective January 31, 1939. He has been on duty at Bolling Field, B.C. V-7967, A.C. -12-TAS SHITLIST OF NONCOMMISSIONED OFFICERS QUALIFIED FOR MASTER SERGEANT, AIR CORPS Effective January 1, 1939 Effective January 1, 1939 -ais evit

LIET OF MORCHARTSHOMED OFFICERE QUALIFIED FOR MASTER SERGEART, AFR CORFS Histories Junnary 1, 1938 1. Address, Hurshell B. 6. Schmidt, George E. 1. Classoper, Dank J. 1. Classoper, John E. 1. Classoper, Classoper J. 1. Classoper, Classoper J. 1. Classoper, John E. 1. Classoper, John J. 1

Cayhue, Arthur H. Brees, William M. Gossett, Henry Akers, Thornton 230. 202. 216. Brown, George D. 231. 203. 217. Scott, Grover B. 218. *Axford, Leo W. 232. 204. Tomberlin, George D. Hewitt, Albert G. 233. Dryer, Howard H. Gerton, William E. Grey, Joseph R. 219. *Harmon, William T. 205. Foster, Edwin C. 206. Croy, William D. 220. Crawford, Wallace W. 234. 207. Hamilton, Robert E. 221. *Hart, Herman 235. 236. Fulkrod, Benjamin F. 237. *Johnson, Lloyd W. 238. Totman, Theodore C. 239. *Mannion, Martin B. 240. *Johnson T. 208. 222. Field, Charles B. Grossman, Paul 209. Callaghan, George 223. Dozier, John 224. Schooler, Oscar H. 225. Philapy, Russell L. 226. *Holt, Jewel A. 210. Waytulonis, Victor M. *Adams, James R. Gray, Henry H. 211. *Johnson, Leonard G *Hudson, Littleton J 240. 212. 241. 213. Herman, Leo I. 227. Siebenaler, Frank J. *Hartman, Ferdinand E. 228. *Hahn, Richard W. 242. 214. Mitchell, Gregory A. 243. *Burke, Harry M. 229. *McKenna, Linus F. 215. Housen, Syle W.

Note: Asterisk preceding name indicates rank of First Sergeant. Remaining songcommissioned officers hold grade of Technical Sergeant. stani ofel Technical Sergeant Hurshell B. Adams was appointed to the grade of Master due Sergeant since January 1, 1939, as were Master Sergeants Kurutz and Richter. Nut c The list of qualified Staff Sergeants eligible for promotion to the grade of Technical Sergeant will be published in the next or succeeding issue of the the Air Corps News Letter.

RANDOLPH FIELD NCO CLUB HOLDS ANNUAL ELECTION By Wallace H. Williams, Secretary and Treasurer

The Noncommissioned Officers' Club of Randolph Field, Texas, held its annual election of Club officers for the ensuing year at the West Club Building on Thursday, January 12th. The election was held prior to the regular Thursday stag dimmer. The popularity of our genial President, Master Sergeant B.D. Booth, was obvious by the unanimous vote of the body for his reelection without further solicitation. Master Sergeant Joe Daly, of the School of Aviation Medicine, was elected Vice President; Tachnical Sergeant Wallace H. Williams, Secretary-Treasurer; Sergeant J. Story, Chairman of the Enter-tainment Committee; Staff Sergeant Ralph L. Andrick, House Director; and the members at large constituting the Executive Board, Master Sergeant W.H. Smith, Technical Sergeant Grover B. Scott and Staff Sergeant Hubert V. Valentine.

At the present time there are affiliated with the Club over two hundred active members, and its record of achievement for the past year is one of which all must be justly proud. The entire membership attributes this success in no small measure to the loyal devotion and work accomplished by Master Sergeant Booth.

Not to be outdone by the mere male, the ladies of the Club held their monthly 'Get-together Family Supper' in the East Club Building and, according to reports, was enjoyed by all.

The entire club membership extends an invitation to all noncommissioned officers of the Air Corps to visit our club buildings while traveling Texas way. There you will find and enjoy the good fellowship known to this fair land and may partake of the southern hospitality practiced at our beautiful command. ------

Master Sergeant Harvey H. Hewitt, Air Corps, Sergeant Major at Luke Field, Hawaiian Department, and for many years Sergeant Major at Selfridge Field, Mich., was appointed a Warrant Officer, U.S. Army, effective February 1, 1939.

TRAINING AT RANDOLPH FIELD AHEAD OF SCHEDULE

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Thanks to an almost uninterrupted spell of perfect flying weather since the present classes at Randolph Field started training on both Primary and Basic Stages last October, the student training at the Primary Flying School is well ahead of schedule. As the Christmas holidays ended, a series of wet northers, dust storms and, finally, soggy airdromes; curtail-ed the instruction to some extent. Despite this setback, however, both stages plan on completing their program well before the nor-mel date, which is usually the third week of February.

Acrobatics constitute the main item of instruction on the PT-13's, with final checks by the flight commanders being sandwiched in. Due to the unusually long spell of flying weather without the usual interruptions found in the winter class, a high percentage of cadets are still on the Primary Stage, more. than 60 percent remaining.

Basic Stage reports that their present ment flying, some phases of nevigation and formation flying left to be cleaned to, Upon the final completion of the class, many of the instructors and flight commanders will depart on extended navigation flights, completing this phase of the War Department Training Dia rective between classes.

Air Corps noncommissioned officers who have been placed on the retired list, effective, January 31, 1939, were as follows:

Master Sergeant Ernest Brown, Hqrs. and Hqrs. Squadron, Air Corps Technical School, Chanute Field, Rantoul, Ill.

Technical Sergeant Homer Routt, 46th School

Squadron, Randolph Field, Texas. Staff Sergeant Richard Zane, 99th Bonberd-ment Squadron, Mitchel Field, N.Y.

Sergeant Brown was advanced on the retired list to the rank of second lieutenant under the Act of Congress, approved May 7, 1932.

V-7967, A.C.

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The Chief of the Air Corps has selected 344 Flying Cadets to begin flying training at the Air Corps Primary Flying School, Randolph Field, Texas, on March 1, 1939. Of these 344 prespective students, 29 are enlisted men of the Army Air Corps; 12 are enlisted men from other branches of the Regular Army, and the remaining 303 are from civil life.

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Orders will issue directing these candidates to report to the nearest military activity for enlistment as Flying Cadets, following which they will be authorized to proceed to Randolph Field in sufficient time to enable them to report to the Commandant of the Air Corps Primary Flying School on March 1, 1939, for assignment to the new class.

The salected candidates are listed below, as follows:

CIVILIANS

Hendry, James Lozier Dorroh: Charles Hill Glover, Roy M. Tashee, Ban Crum Smith Mayes, Lybrand L. Friedman, Samuel L., Jr. Schiel, Frank, Jr. Garchar, Paul James Hebelah, Hamsey MoRee, Her C. Nowotny, Baymond Alvin Booth, Baymond Kingdon Morris, John Arville Schneider, George E. Sullivan, Joseph L. Walls, James M. Gunn, James A., III Hundeford, Jack Alva Derdorf, John William Hansen, Eeth P. Siler, Birdette Basil Kegel, Faymond J. Crantord, James Rellis Wynne, John Davis Wynne, John Levis Clinch, Downey C. Brock, Busgell K. Herbert, Paul Wayne Baker, Don Emery Hallihan, George Francis Benedict, Maurice Semuel Bunch, Faul W. McLean, Jack B. Smith, Cornelius C. Goff. Boyd Matthew Goff, Boyd Matthew Fitch, Charles Wayne Hayman, Frank Tilghman Made, Wallace P. Gerhart, Quinter Paul Payne, Robert H. Hauk, Faul Ignatius Price, Gerald Clifton Denter, Corald Clifton Denter, George Clark Wagner, Walter J. Ciccalone, Themas James Jakoboski, Walter Olshesky, John James Granberg, Edwin C., Jr. Cavading, Octavius John

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Auburn, Ala. Kennedy, Ala. Margaret, Ala. Red Level, Ala. Sulligent, Ala. Tuscaloosa, Ala. Drake, Ariz. Phoenix, Ariz. Phoenix, Ariz. Tucson, Ariz. Tucson, Ariz. Warren, Ariz. Greenbrier, Ark. Little Rock, Ark. Little Rock, Ark. Magazine, Ark. Berkeley, Calif. Burbank, Calif. Burbank, Calif. Burlingame, Calif. Anaheim, Calif. Carlsbad, Calif. Colton, Calif. Il Centre, Calif. Grass Valley, Calif. Los Angeles, Calif. Los Angeles, Calif. Les Angeles, Calif. La Canada, Calif. Northfork, Calif. Oakland, Calif. Richmond, Calif. Riverside, Calif. Sacramento, Calif. San Francisco, Calif. Santa Barbara, Calif. Shaver Lake, Calif. Tracy, Calif. Bellvue, Colo. Denver, Colo. Fort Collins, Colo. Leveland, Colo. Manzanola, Colo. East Hartford, Conn. Last Hartford, Conn. **East** Hartford, Conn. Greenwich, Conn. North Haven, Conn.

Boetcher, John Edward Stratford, Conn. Sutliffe, Thomas Henry Waterbury, Conn. Hill, James Wilborn Washington, D.C. Wilburn, Donald E. Bourne, Evan Francis, Jr. Washington, D.C. Coral Gables, Fla. Kennington, Thomas C., Jr. McLachlan, James Gainesville, Fla. Miami, Fla. Aubert, George J. Tampa, Fla. Tampa, Fla. Tampa, Fla. Moe, John Gillette, Jr. Morgan, Marion C. Haile, James E., Jr. Cedartown, Ga. McWhorter, William Hugh, Jr. Decatur, Ga. Clarke, Leo George, Jr. Adams, Benjamin C. Fort Benning, Ga. Macon, Ga. Sylvania, Ga. Hilton, Corson L., Jr. Bevington, Frank Clark Boise, Idaho Poulson, Faul Herman, Jr. Boise, Idaho Torelle, Albert Edward, Jr. Coeurd'Alene, Idaho Large, Jackson Douglas Pocatello, Idaho Hardesty, Harold J. Bloomington, Ill. Parker, John Lowe Dixon, Elmer Austin Carlinville, Ill. Champaign, Ill. Arnold, Lee Chicago, Ill. Bankman, Jack A. Gewares, Nicholas L. Hummer, Clinton Rolland Chicago, Ill. Chicago, Ill. Chicago, Ill. Laris, James Chicago, Ill. Chicago, Ill. Lindmark, George E., Jr. Chicago, Ill. Mahler, William Michael Martin, Glen Webster Chicago, Ill. Peterson, Carl Runge Chicago, Ill. Priestly, Ralph B. Chicago, Ill. Smith, John Frank Chicago, Ill. Evanston, Ill. Fleming, Francis M. Lamb, Robert Stewart Kewanee, Ill. LaGrange, Ill. Mormouth, Ill. Normal, Ill. Graves, Frank N., Jr. Ross, Dean Riner Hays, Nathan Bourne Beary, Harold Abraham Corso, Leon O'Fallon, Ill. Ottawa, Ill. Hansman, Louis H. Peoria, Ill. Egloff, Frank S., Jr. Riverside, Ill. Good, Robert Ogden Springfield, Ill. Floyd, Harold Marcus Tamalco, Ill. Fackler, Paul H. Morgan, MaoPherson Tolono, Ill. Urbana, Ill. LaBarbera, Salvador P. Shelbyville, Ind. Gilbert, George A. Princeton, Ind. Swinehart, Marion Louis South Bend, Ind. Buis, Kenneth Leon Terre Haute, Ind. Underwood, Robert W. Eyres, William Gordon Terre Haute, Ind. Ames, Iowa Walker, George Alexander Council Bluffs, Iowa Zoeckler, John L. Devenport, Iowa Payne, Paul Hugh Des Moines, Iowa Trigg, William J. Hedrick, Iowa Parsley, Harold Vincent Hornick, Iowa Ford, Eugene Matthew West Bend, Iowa Steele, Gordon K. Columbus, Kans. Gorrill, Robert Berr Lawrence, Kans. Wichita, Kans. Lowe, Robert Clyde Stuber, Lovell Swain Winfield, Kans. Jenkins, Charles Frank Bowling Green, Ky. Frazier, Thomas W. Jefferson Town, Ky. Lensing, William E. Louisville, Ky. Tyler, Henry S., Jr. Louisville, Ky. Cayle, Hubbard K., Jr. Morganfield, Ky. V-7967, A.C.

Cawood, Francis L. Todd, Thomas M. Bynum, Richard E. Norwood, Albert M. Shea, Jim Dow, James Frederick Dow, Thompson Faxon Cormier, Everett L. Andrews, Stephen Elwood, Jr. Waesche, Harry Lee LeBois, Leo Lewis Sullivan, John G. Bailey, Arnold James Cunliffe, Richard King Blood, Richard William Knoll, Helmut Julius Doran, John William Home, Roger W. Stetson, Jefferis Clark, Harry A., Jr. Foulkes, David Robert Fuller, Frank LaVern Ball, Russell Louis McConnell, Benjamin F. Adams, William Carrolton Luszki, Walter A. Sofian, Peter Young, Howard M. Anderson, Wesley Alleyn Bayles, Glen Ford, Thomas R. Crust, Robert W. Ferrell, Max Everett Gray, William Torkelson, Elmo Prescott Colburn, Richard R., Jr. Schmidt, Abner Dennis Mattson, Russell Mashburn, Leon Waddell, Jr. Baker, Albert Buford Cooke, Chester Guy, Jr. Boyett, Curtiss George, Jr. Burns, Robert Wiygul Landaker, Walter E., Jr. Hosford, Jack Cunningham McCorkle, Leon Marshall Heron, James Redden Larson, Robert Sherman Williamson, Walter Henry Lang, Donald Washburn Scott, George, II Brown, Bahngrell Walter Harding, Burkley F. Pirruccello, Joseph S. Sutton, Wilburt Judson Quincy, Arthur Joseph Bash, Robert Edwin Lyons, James Raymond Chambers, Carleton Alfred Lane, Robert George Roberts, James Thomas Healy, James J. Angelopoulos, Evan Hawes, Daniel G. Messina, Alfred Schwartz, William Kappill, Louis Charles Arentzen, Thomas Oscar Cranston, John F. Dutton, Carleton C. Pearson, Burton E.

Winchester, Ky. Winchester, Ky. Arabi, La. Opelousas, La. Rayville, La. Howlton, Maine South Portland, Maine Van Buren, Maine Hurlook, Md. Chevy Chase, Md. Boston, Mass. Brighton, Mass. Brookton, Mass. Cambridge, Mass. Dorchester, Mass. East Dedham, Mass. Methuen, Mass. Shelburne Falls, Mass. West Newton, Mass. Wollaston, Mass. Worcester, Mass. Ann Arbor, Mich. Bay City, Mich. Benton Harbor, Mich. Detroit, Mich. Detroit, Mich. Detroit, Mich. Gladwin, Mich. Ironwood, Mich. Romulus, Mich. Shelby, Mich. Brainerd, Minn. Cass Lake, Minn. Fort Snelling, Minn. Lyle, Minn. Minneepolis, Minn. Minneepolis, Minn. Stenchfield, Minn. Clarksdale, Miss. Cruger, Miss. Oxford, Miss. Shelby, Miss. State Line, Miss. Clinton, Mo. Columbia, Mo. Salisbury, Mo. Billings, Mont. Thompson Falls, Mont. Beatrice, Neb. Falls City, Neb. Lincoln, Neb. Omaha, Neb. Omaha, Neb. Omaha, Neb. Elizabeth, N.J. Closter, N.J. Maplewood, N.J. Maplewood, N.J. Trenton, N.J. Hurley, N.M. Arcade, N.Y. Bronx, N.Y. Brooklyn, N.Y. Brooklyn, N.Y. Brooklyn, N.Y. Brooklyn, N.Y. Elmirs, N.Y. Mt. Vernon, N.Y. New York, N.Y. Syracuse, N.Y. Syracuse, N.Y.

and **al** of t Schulze, Herbert Otto Syracuse, N.Y. Pratt, Harry B. Asheville, N.C. Kingsbury, Frank Fayetteville, N.C. Johnson, James McLean Greensboro, N.C. Raleigh, N.C. Raleigh, N.C. Raleigh, N.C. Wake Forest, N.C. Watha, N.C. Brown, Paul Paisley, Jr. Matthews, Joseph A. Williams, John G., Jr. Newsome, James Wyatt Rivenbark, Teal Alexander, Jr. Martin, Wheeler, Jr. Leonard, Harold Thomas Olson, Orville R. Williamston, N.C. Fargo, N.D. Finley, N.D. Amstutz, Warren J. Barrow, William Robert Beaverdam, Ohio Devton, Ohio Pontius, Howard Wilmer Wauseon, Ohio Brown, Roderick Norman Altus, Okla. Barnsdell, Okla. Ramsdel, Joseph William Cannon, Leo Loftus Blackwell, Ckla. Idabel, Ckla. Norman, Okla. Norman, Ckla. Oklahema City, Okla. Harkey, Paul Brett, Thomas Marshall Meyer, Milton N. Minshew, Davis Phillips, Proctor Elliott Trosper, Earl Joseph Wilson, Richard Rupe Oklahoma City, Okla. Oklahoma City, Okla. Oklahoma City, Okla. Okmulgee, Okla. Schaller, Otto Henry Stigler, Okla. Sulphur, Okla. Temple, Okla. Gowins, Tim Jones, Ben Henty Yeilding, Dan Howard Lucas, Vernon Emmitt Tonkawa, Okla. Tulsa, Okla. Walters, Okla. Koehne, George Henry, Jr. Baker, Nolan Dillian Corvallis, Ore. Portland, Ore. Eilers, John Fred Stidd, Elbert Northam, Jr. Comito, Cosmo L. Hutton, Edward M. Brownsville, Pa. Chambersburg, Pa. Pitteburgh, Pa. Williams, William Frederick Lyndorn, Pa. Johnstown, Pa. Curzi, Jedio Albert Hammerle, Clarence B., Jr. Guerrina, Albert S. Fhiladelphia, Pa. Robinson, Edgar A. Phoenixville, Pa. McCrackin, Marion Riffle Scottdale, Pa. McMullen, Harry Leo, Jr. Uniontown, Pa. Hill, George Dourian Yeadon, Pa. Central Falls, R.I. Taylor, Raymond Anderson, David Vibe Frovidence, R.I. Larson, Nils Rodney Providence, R.I. Riverside, R.I. Rodgers, Fenton Tyler, Charles Matthew Charleston, S.C. Columbia, S.C. Riddle, Harry Duff Stricklin, William Joseph, Jr. Florence, S.C. Hemer, S.C. Oliver, Harry Boatwright, Lewellyn T., Jr., Ridge Spring, S.C. Carter, Landis Owen Varnville, S.C. Carter, Landis Owen Turner, Mannie P., Jr. West Columbia, S.C. Brookings, S.D. Mobridge, S.D. Taute, August Franklin Fuller, Stephen J. Watertown, S.D. Sheldon, Benjamin N. Womack, Edgar M. Watertoin, S. D. Galfatin, Tenn. Johnson City, Tenn. Loudon, Tenn. Memphis, Tenn. Savannah, Tenn. Abilens, Texas Austin, Texas Austin, Texas Austin, Texas Buffalo, Texas Dallas, Texas Dallas, Texas Wood, Everett Newton Hall, William Lenoir Milner, Robert Rutherford Brann, Ralph Austin Chenoweth, Max Spring, Gilbert Manly Carlisle, Guernsey Island Floyd, John Edward Potter, Edward Jack Adkins, John Robert Brower, Ogden Cullum, Felder Wilson Dallas, Texas V-7967, A.C. -16-

Edinburg, Texas El Paso, Texas El Paso, Texas El Paso, Texas Galveston, Texas Winingham, Rollin M. Bomar, Frank Elgin D.Peden, Jack B. Williams, William A. Black, Harry Gean Galveston, Texas O. Mortan, George M. Hearne, Texas McKeme, Jack F. Hearne, Texas Houston, Texas Houston, Texas Iowa Park, Texas Jacksonville, Texas Kilgore, Texas Lewisville, Texas Palestine, Texas Reep, Semuel A. Williford, James H. Hawthorne, Harry James Boyett, Harold Byrd, EHilton Homer Stewart, Albert Roland, Jr. Knowles: William Mack Rocksprings, Texas 1.1 Powelbu Delphi C., Jr. San Antonio, Texas San Antonio, Texas St.White S. Mikson E. Murray, Utah Salt Lake City, Utah Sandy, Utah Guthnie James William 3. Ostler Fiverett Thomas West Pawlet, Vt. Bristol, Va. Norfolk, Va. Roanoke, Va. Roanoke, Va. Wathers, Clarence J., Jr. Senter, James Bradley Fantone, James Earl Carmines Deniel N., Jr. Harvis; Robert F. Seattle, Wash. Tairbank govon Griffin Grafton, W.Va. Morgantown, W.Va. Franzis LugHoward Dawson, idemes Stenger Griffith, Frank T. St. Albans, W.Va. Everson, Clarence Paul Beloit, Wis. La Crosse, Wis. Ruoff Berman John Ladysmith, Wis. Milwaukee, Wis. Milwaukee, Wis. Milwaukee, Wis. Zeliasky, Raymond Portman Bulleck, Harold Abbott Estrunger Elmer Frank Jankowski, John W. Marion, Wis. Konkel, Ardie Alfred Mahoney, John Allen Waukesha, Wis. Feiling, Brunow William Spoerle, Frank John Wauwatosa, Wis. Platteville, Wis. Rewlins, Wyo. Cross, Walter Winfred . ;] St. Louis, Mo. St. Louis, Mo. Mills, Max Mayfield Perkins John Walter St. Louis, Mo. Spartanburg, S.C. Hillsboro, Texas Woods, Thomas M., Jr. Haynes, John Eugene Evans, James A., Jr. Honolulu, T.H. Dolim, Henry Philip 1 (1 ENLISTED MEN - AIR CORPS · ') _ ` Privates Smoot, Arthur Reed Nauvoo, Ala. Hg. and Hq. Sqdn. A.C.T.S., Maxwell Field, Ala. Little, Charles Osborne Los Angeles, Calif. Ist Mesther Squadron, March Field, Calif. Ross, Faul E. Los Angeles, Ca Base Hors. and 4th Air Base Squadron, March Field, Calif. Winne, John Douglas Los Angeles, Ca Los Angeles, Calif. Los Angeles, Calif. Ath Air Base Sidn., March Field, Calif. Fisierson, Charles O.P. Ocean Park, Ocean Park, Calif. Base Headquarters and 4th Air Base Squadron, March Field, Calif. Van Wert, Clinton Earl Pasadena, Calif Pasadena, Calif. Hors, and Hors. Sodn., Lowry Field, Colo. Munson, David Jerome New Haven, Con Sith Observation Sodn., Mitchel Field, N.Y. Clark, Joseph P. Jacksonville, Fl. Headquarters Air Corps Technical School, New Haven, Conn. Jacksonville, Fla. Chanute Field, Ill. T Watkins, James C. (Corp.) Putnam Hall, Fla. 2. 3rd Weather Squadron, Barksdale Field, La. · · · · 1. 2.

Bowers, William R. Toccoa, Ga. Flight B, 16th Obs. Squadron, Fort Benning, Georgia. Bradley, Donald E. Chicago, Ill. 19th Pursuit Sqdn., Wheeler Field, T.H. Stone, Frank L. Chicago, Ill. Hqrs. and Hqrs. Squadron, Air Corps Technical School, Chanute Field, Ill. Carswell, John H. Blakely, Ge. 12th Air Base Squadron, Kelly Field, Texas Fitzsimmons, William David Huntington, Mass. 1st Bombardment Sqdn., Mitchel Field, N.Y. Larkin, John Nantucket, Mass. Hqrs. and Hqrs. Sqdn., Randolph Field, Tex. Baker, Donald R. Grand Rapids, Mich. 46th School Squadron, Randolph Field, Tex. Van Allen, Edward L. Gresham, Neb. 1st School Squadron, Chanute Field, Ill. Freeman, Edmund Frederick eeman, Edmund Frederick Manchester, N.H. Hgrs. and Hgrs. Sqdn., Randolph Field, Tex. Radice, Daniel Vincent Brocklyn 18th Recommaissance Squadron, Mitchel Brooklyn, N.Y. Field, N.Y. Lyon, Howard Britton Asheville, N.C. Base Hqrs. and 1st Air Base Squadron, Langley Field, Va. Wheeler, James Clarencie, care 47th School Squadron, Randolph Field, Tex. Tallequah, Okla. Hqrs. and Hqrs. Sqdn., Randolph Field, Tex. Reiner, Harry O. Reinerton, Pa. Hqrs. and Hqrs. Sqdn., Mitchel Field, N.Y. Chattanooga, Tenn. Beasley, James Carl 11th Air Base Sqdn., Randolph Field, Tex. Foster, John C. Chattanooga, Te 53rd School Squadron, Randolph Field, Tex. Chattanooga, Tenn. www, Merle C. Hqrs. and Hqrs. Sqdn., Randolph Field, Tex. Brown, Merle C. zell, Ben Quinton San Benito, Texas 53rd School Squadron, Randolph Field, Tex. Ezzell, Ben Quinton Hutchison, Amos M. San Antonio, Texas 63rd School Squadron, Kelly Field, Texas Herblin, William Leonard Wichita Falls, Texas Slight C, 12th Observation Squadron, Fort Sill, Okla. ENLISTED MEN - OTHER BRANCHES OF SERVICE Infantry Booth, Wendell Joseph Washington, Iowa Hq. Co. 3d Inf., Fort Snelling, Minn. Freudenthal, Charles Hilding Worcester, Mass. Co. B, 16th Infantry, Fort Jay, New York Cassutt, Thomas Kenneth Duluth, Minne. Cassutt, Thomas Kenneth Duluth, Mi Co. E. 3rd Infantry, Fort Snelling, Minn. Signal Corps Baigent, Victor Bedford Hills, N.Y. 51st Sig. Btln., Fort Monmouth, N.J. Coast Artillery Turner, Paul, Jr. Tarboro, N.C. Hqrs. Battery, 51st C.A., Fort Monroe, Va. Field Artillery Koonce, Swagler Henkle Spindale, N.C. Battery D, 4th F.A., Fort Bragg, N.C. Medical Department Kalberer, Klem Franklin Oakland, Calif. Station Hospital, Hamilton Field, Calif. Evers, John Clay Haynesville, La. Station Hospital, Barksdale Field, La. Bujold, James J. Duluth, Minn. Station Hospital, Fort Sam Houston, Tex. Gunckel, Richard Henry Blackwell, Okla. Fitzsimons Gen. Hospital, Denver, Colo. -17-V-7967, A.C.

Husband, Howard Pershing Tonkawa, Okla. Station Hospital, Randolph Field, Texas

Nelson, James Percival Garrettsville, Ohio 29th Engineers, Portland, Oregon.

With a total of 30 students, Texas leads all the other States represented in the new March class at Randolph Field, although the Lone Star State is closely pressed by Illinois with 29 students and California with 28. Other States which are represented by five or more students are Oklahoma with 21; Massachusetts and New York, 14 each; North Carolina, 12; Pennsylvania, 11; Wisconsin, 10; Michigan and Minnesota, 9 each; Connecticut, Florida, Iowa and South Carolina, 8 each; Alabama, Georgia, Kentucky, Nebraska and Tennessee, 7 each; Arizona and Missouri, 6 each; Colorado, Indiana, Mississippi and New Jersey, 5 each.

pi and New Jersey, 5 each. Leading the cities represented in the new class by a wide margin is Chicago, Ill., with 13 students. Other cities having three or more students are Los Angeles, Calif., with 6; Brooklyn, N.Y., 5; Oklahoma City, Okla., 4; East Hartford, Conn.; Tampa, Fla.; Detroit, Mich.; Omaha, Neb.; Syracuse, N.Y.; Faleigh, N.C.; St. Louis, Mo.; Austin, El Paso and San Antonio, Texas; and Milwaukee, Wis., 3 each.

DEFYING THE PRIZE 'JINX' DAY

Declaring that there ought to be a law on 13, the Kelly Field Correspondent goes on to say that Captain C.B. Overacker, Jr. (13 letters), Air Corps, undoubtedly was feeling better on Saturday. Flying ship No. 13 from March Field, Calif., he took off on Friday, the 13th, from Kelly Field, Texas, with 13 passengers for his home station. Before hopping off, Captain Overacker searched the field for one additional passenger (according to reports), in the hope of reducing the "jinx defying" numerals, but failed to find any. To top matters off, his flight plan called for a trip of about 13 hundred miles. However, word was received at Kelly Field on Saturday, January 14th, that the Captain arrived home safely with his B-18 Bomber.

Advice was received from Washington that a State W.P.A. project for the construction of additions to the lean-tos of five hangars at Randolph Field, Texas, has been cleared for approval by the Works Progress Administrator. The project calls for Federal W.P.A. funds in the sum of \$28,809.00, and the sponsor will contribute \$21,203.00, thus providing a total of \$50,012.00.

Each of the proposed lean-to extensions will consist of two 20' x 60' additions of concrete and steel construction, steel deck roof, concrete floors, large glazed areas on outside walls, complete with plumbing, heating and electrical utilities. These lean-to extensions, when completed, will provide class rooms, storage space, etc., and will extend nearly the entire length of the hangar to which they will be attached.

RESERVE OFFICERS START REFRESHER COURSE

Eighteen Reserve officers, all second lieutenants, have started a special refresher course at the Air Corps Primary Flying School at Randolph Field, Texas.

As in previous classes of this type, advancement from the Primary to the Basic Stage will be on a proficiency basis rather than on a predetermined schedule. It is estimated, declares the Randolph Field Correspondent, that the refresher students will complete their work on the Primary Stage in approximately 20 hours, and will then be sent to the Basic Stage for additional training on the BT-9's. During this latter phase of training, instrument flying and formation will be particularly stressed, as this type of flying is not an integral part of the training of civilian fliers.

Among the officers taking the course are Second Lieutenants -

Arthur A. Aro, Berkeley, Calif. Albert J. Baumler, Trenton, N.J. Earl A. Field, Tulsa, Okla. Walter R. Ford, San Antonio, Texas. Wilson Gillis, Los Angeles, Calif. John M. Tillman, Lorain, Ohio. William H. Turner, Portland, Oregon. Seth S. Strachan, Portland, Oregon. Fred S. Shine, Claremont, Calif. Arthur A. Goldsmith, Manchester, N.H. Douglas N. MacOdrum, Cambridge, Mass. George W. Ireland, Cincinnati, Ohio. William N. Vickers, Beaumont, Texas. James W. Stowell, Tulsa, Oklahoma. Jesse C. Hayes, Shawnee, Oklahoma. C.J. Jensen, Eureka, Kansas. A.B. Walker, Miami, Fla. Clifford W. Ludwig, San Antonio, Texas.

FOREIGN OFFICERS VISIT TRAINING CENTER

Commander Taro Taguti, Assistant Naval Attache to the Japanese Embassy at Washington, D.C.; Colonel Pedron Zanni, Military and Air Attache to the Argentine Embassy; and Flight Lieutenant R.A. Cameron, of the Royal Canadian Air Force, visited Randolph Field during January. Their visits, separated by several days, were for the purpose of inspecting the training methods employed at the Air Corps Primary Flying School. as well as the facilities, etc.

Flying School, as well as the facilities, etc. All of the visiting officers appeared particularly impressed by the type of equipment used at the Training Center, and also by the volume of students handled. The thoroughness of the course, especially the Basic Stage training, also brought forth high praise from the visitors.

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ISSUED BY OFFICE OF CHIEF OF THE AIR CORPS. WAR BEPARTMENT. WASHINGTON, D.C.

VOL. XXII

FEBRUARY 15, 1939

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VOL. XXII	AIR	CORPS	NEWS	LETTER	NO. 4.
Information Divi Air Corps	sion	February	15, 1939	Munitions Washingt	Building on, D.C.

The chief purpose of this publication is to distribute information on aero-nautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation. ------

OIL DILUTION SYSTEM THE By a Materiel Division Engineer

On February 6, 1936, the pilot of an 0-25C airplane, which had been left out over night when the temperature was be-low 5° F., stepped into his airplane, started the engine, and took off in four minutes. This feat was made possible by an oil dilution system which, since that date, has been installed in most new tactical Air Corns airplane. tactical Air Corps airplanes.

The oil dilution system has been developed after a large amount of intensive research. Its primary purpose is to provide a means of decreasing the viscosity of the engine oil in order to reduce the starting torque required to start an airplane engine under cold weather conditions, and to reduce the time of warm-up prior to take-off. This result is obtained by the use of an oil dilution line with necessary valve and fittings and a hopper type oil tank. The function of these units, although de-scribed in Technical Orders, will be briefly touched upon here.

011 Dilution Line and Hopper Tank

The oil dilution line leads from the pressure side of the fuel pump to the oil inlet line to the engine. In this line is a metering jet, which meters the quantity of fuel added to the oil, and a shut-off valve operated from the cockpit to start or stop dilution. This valve provides the pilot with a means of di-luting the oil into the engine before stopping it. He should not neglect this precautionary measure if he anticipates difficulty in starting his engine due to cold weather.

The hopper tank consists of an oil tank containing a hopper with a capacity of $1\frac{1}{2}$ to 2 gallons. The hopper is so installed in the tank that oll returned from the engine enters the top of the hopper with a swirling or spiral motion, passes down through the hopper to the outlet and thence back to the engine. The purpose of introducing the oil into the hopper in a swirling motion is to eliminate the air returned with the oil by the engine scavenging pump. The botby the engine scavenging pump. The bot-tom of the hopper is so designed that oil from the hopper has a direct passage to the engine, while oil from the tank can enter the hopper through an annular opening at the bottom of the hopper,

when the static head, or oil level, in the hopper becomes less than the static head, or oil level, in the tank. In this manner the oil in the hopper is In recirculated through the engine many times, and as the oil is diminished by use, new oil from the tank forces its way into the hopper. The advantages of this type of tank

are as follows:

- a. When the oil dilution valve is
- a. when the oil dilution value is opened, only the oil in the hopper is diluted.
 b. After a few minutes of operation the oil in the hopper is sufficiently warm for the diluent to vaporize off and oil of the original viscosity remains.
 - Recirculation of Oil

It should be pointed out here that re-circulation of oil through the hopper with the resultant rapid rise in tempera ture is not conducive to overheating of the oil, since the oil temperature is controlled by the thermostatic oil valve in the oil cooler. If the oil temperature regulator is functioning properly, the temperature of the oil out of the cooler will be held within fixed limits. The oil then returns to fixed limits. The oil then returns to the tank. Since the cooling capacity of a tank is negligible, it makes no difference whether the oil returns at once to the engine through the hopper or remains for a time in the tank. I might be noted here, however, that if the engine scavenging is erratic, the oil level in the hopper may drop, allowing a comparatively large amount of cold oil from the tank to enter the hopper at one time. So far as can be determined this has no deleterious ef-fect upon the engine. Poor scavenging on the part of the engine, however, has other more serious effects which will not be discussed here.

The effect on the average age of the oil of recirculating the same oil is interesting. Assuming a hopper of 12-gallon capacity and an engine consuming 12 gallons of oil an hour, it may be computed that at any time, regardless of the length of operation, the average ages of the oil in the hopper will be age of the oil in the hopper will be (Continued on Page 16)

V-7976, A.C.

DOUBLE BARS IN DEMAND

Special Orders of the War Department, recently issued, announced the promotion of 36 first lieutenants of the Air Corps to the grade of captain, with rank from February 2, 1939, viz:

Robert E.L. Pirtle Wilbur Erickson Leland S. Stranathan Ernest K. Warburton Lilburn D. Fator LeRoy Hudson Archibald M. Kelley Roland O.S. Akre Ralph O. Brownfield Joel E. Mallory Donald R. Lyon Warren H. Higgins Stanley K. Robinson Willard R. Shephard Paul E. Shanahan Roger V. Williams Frederick A. Pillet Wm. H. McArthur Reginald Heber Homer L. Sanders Draper F. Henry Robert D. Johnston Willard R. Shepharu George W. Hansen Draper F. Henry Minton W. Kaye Robert D. Johnston Aubry L. Moore Walter R. Agee Ronald R. Walker Hansford W. Penningto: Lloyd H. Tull Guy F. Hix Francis M. Zeigler Murray C. Woodbury Frederic E Glantzberg Paul B. Wurtsmith Rugene H. Rice Wm. A.R. Robertson Walter R. Agee Hansford W. Pennington

15TH OBS. SQUADRON RECEIVES FIRST 0_47A

"At long last," declares the Scott Field Correspondent, "the Fifteenth Observation Squadron received its first O-47A's. The first four were ferried in from California by Major Raphael Baez, Captain Fay O. Dice, Lieuts. J.A. Ronin and Henley V. Bastin, Air Corps. The last of the group came in on January 21st, and since that time the Squadron has been busy with familiarization flights and crewing. The Squadron ex-pects to receive four additional 0-47A's during the latter part of February to complete the quota."

STUDY IN NAVIGATION AT LANGLEY FIELD

The following-named Air Corps officers reckoning and celestial navigation at the Navigation School of the Second Bom-bardment Group at Langley Field, Va.:

Captain I.M. Palmer	- J .	
Contain TH Dalla	.	
Captain F.H. Robins	on	
Captain J.A. Samfor	d	
Lieut. T.L. Mosley		
Lieut. C.W. Carlmar	k	
Lieut. I.R. Selby		
Lieut. J.A. Feagin		
TYOUR O'N' TORETT		
Lieut. J.S. Sutton		
Navigation School 1	as	C

the Navigation School has commenced the first of two dead reckoning naviga-tion courses for the junior officers of the Second Bombardment Group. The best students of these two courses will be selected for a course in celestial navi-gation. The following officers are at-tending the present course: commenced tending the present course; Lieut. J.H. Rothrock Lieut. R.A. Ping Lieut. C.H.W. Rueter

Lieut. W.P. Ragsdale Lieut. W.R. Robertson Lieut. W.R. Robertson Lieut. A.H. Rogers Lieut: C.J. Cochrane Lieut. C.K. Longacre Lieut. H.S. Williams, Hq. and Hq. Sqdn., GHQ Air Force Lieut. E.M. Wittan, 21st Reconneis-sance Squadron, GHQ Air Force Lieut. J.T. Winstead, 21st Recon-naissance Squadron, GHQ Air Force. ------ \mathbf{V} MATHEMATICAL PUZZLE

The hangars at Langley Field, Va., are 110 feet wide. The long dimension of each hangar parallels the warm-up ramp, and the interval between hangars is only 130 feet. Can the B-15; whose wing span is 153 feet, be maneuvered into one of the center hangars? The Langley Field Correspondent declares that the answer is "yes," as the B-15 has actually been squeezed into the 49th Squadron hangar on two occasions, -once last fall, when the hurricane threatened Langley Field, and a second time for the engine change now under way.

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LANGLEY FIELD ACTIVITIES

About a year ago, the 49th Bomhard-ment Squadron submitted as an Air Corps News Letter item the announcement that Lieut. C.E. LeMay had just smashed his first 25 straight in skeet. Now the 49th Squadron announces that this offi-cer has just smashed 184 straight.

Airplane B-17, No. 81, Captain R.B. Williams, commanding, representing the Second Bombardment Group at the Cold Weather Tests at Selfridge Field, Mich., is at Langley Field waiting for suffi-cient ice, snow and low temperature at Selfridge to justify resumption of the tests.

P-36's are still being received by the three squadrons of the 8th Pursuit Group with open arms, and most of the officers in the 35th Pursuit Squadron have been checked out in them. The have been checked out in them, News Letter Correspondent declares, however, "that we still have warm place in our hearts for the PB's and hope we will be able to keep a few around."

Lieut. Don Coupland, of the 35th Pursuit Squadron, has been working on a glider target for several weeks is hobby), and expects to test-hop it so soon. The test will be made at langley Field and the target towed by a C-6 (Chevrolet). The results will be pub-lished in this column. ుటుందు. ల≇్ ఓఫిళేజ

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DISTINGUISHED FLYING CROSS AWARDED MAJOR HAYNES

On the afternoon of Tuesday, February 14, 1939, the Hon. Harry H. Woodring, Secretary of War, before a distinguished company of foreign officials, officers of the War Department and of the American Red Cross, awarded the Army's Distinguish-Air Corps, United States Army. For ex-dir Corps, for his feat in flying one of the Army achievement while parties Air Corps, for his feat in flying one of the Army's largest Bombers, loaded with medical supplies, from Langley Field, Va., to Santiago, Chile, after the earthquake.

Major Haynes flew to Washington from Langley Field, Va., following the aerial review and ceremonies held there in the review and ceremonies held there in the morning, upon his arrival from Santiago. Chile . He was accompanied by the crew of tan officers and enlisted men who flew with him in the XB-15 on the long journey to the stricken South American country. These were: Captains W.D. Old and J.A. Samford, ist Lieuts. R.F. Freeman and T.G. Wold, Technical Sergeant A. Cattarius, Staff Sergeants W.J. Heldt, H.L. Hines, D.L. Spicer, Corporal J.E. Sands, and Private 1st Class Russell E. Junior. The presentation was witnessed by of-

The presentation was witnessed by of-ficials of the Chilean Embassy, as follows;

Sehor Don Sergio Huneeus, Charge d'Affaires Ad Interim; Senor Don C. Manuel Pereira, First Secretary of the Embassy, and Squadron Leader Ismael Sarasua, Air Attache, Embassy of Chile. Also Present were the Hon. Norman Armour, the American Ambassador to Chile and Mr Ernest Swift, represent-Chile, and Mr. Ernest Swift, represent-ing the American Red Cross. Mr. Woodring's speech of presentation

was as follows: Major Haynes, it is a great pleasure to have you and the crew of the Army's KB-F5 airplane here today. When, at the request of the American Red Cross, I is-Sued orders for your ship to carry a load of 3200 pounds of medical supplies to child on short notice and on a flight which demanded speed, night landings and take-offs. I fully realized the diffi-culties of the task. At the same time I was confident that the trip would be made with the efficiency we have learned to, expect of the Army Air Corps and the GHQ air Force. The flight was so suc-cessfully accomplished and the mission. carried out so completely that your achievement is acknowledged with the award of the Distinguished Flying Cross. I want to express to you and to the members of the crew who made the flight

possible the appreciation of the War De-

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Staff of the Army, then read the cita-tion for the award of the Distinguished Flying Cross to Major Haynes, and which is as follows:

pating in an aerial flight from Langley Field, Virginia, to Santiago, Chile, February 4, 5 and 6, 1939. As Command-er and Pilot of the XB-15, Major Haynes transported without hesitation and under emergency orders, a total of three thousand two hundred and fifty pounds of Red Cross medical supplies to Santiago, Chile, under conditions which were extremely hazardous and exacting. Loaded to absolute maximum capacity, the XB-15, under the superior pilotage of Major Haynes, cleared Langley Field, Virginia, before daylight, February 4, and adhered thereafter to a rigid flight schedule which involved the penetration of unfavorable flying weather, a night landing at Panama, night take-offs at Panama and Lima, Peru, and an arrival, on schedule, at Santiago, Chile, early February 6, 1939. His extraordinary ability, devo-tion to duty, and excellent leadership made possible the successful accomplishment of this mission of mercy and thus reflected great credit upon the military service."

After the Secretary of War pinned the D.F.C. on Major Haynes' blouse, the latter received congratulations from Brigadier General George C. Marshall, Assistant Chief of Staff; Major General Henry H. Arnold, Chief of the Air Corps; Brigadier General Barton K. Yount, Assistant to the Chief of the Air Corps, and others.

As the result of the successful flight of the XB-15 to Chile, the Amer-ican Red Cross was enabled to place without delay in those areas of Chile devastated by the recent earthquake urgently needed vaccines and other medical supplies.

Major Haynes flew to Chile in 49 hours and 18 minutes, total elapsed time; and in 29 hours, 53 minutes, flying time, over a distance of 4933 miles.

Major Haynes, who was born in Mt. Airy, N.C., March 15, 1895, graduated from Wake Forest College, N.C., with an LL. B. degree in 1917, and enlisted as Private, 1st Class, Aviation Section, Signal Corps, August 15, 1917. Shortly following his graduation from the School of Military Aeronautics, Georgia School of Technology, Atlanta, Ga., November 10, 1917, he was ordered to duty overseas, and he received his fly-ing training at aviation schools in Major Haynes, who was born in Mt. ing training at aviation schools in France. He was on duty with the A.E.F. V-7976, A.C. _3_

in France to June, 1919. He received his appointment as Second Lieutenant, Air Service (National Army), May 30 1918, and his commission as a Second Lieutenant in the Regular Army on July 1, 1920. He was promoted to First Lieutenant on the same date; to Captain, Octo-ber 14, 1932; and to Major (temporary) August 26, 1936. Upon his return from France, Major

Haynes served a tour of duty at Mitchel Field, N.Y., and other Air Corps stations in the East. He was on duty in the Of-fice of the Chief of Air Service, Washince of the Unief of Air Service, Wash-ington, D.C., from April, 1922, to June, 1924, when he was transferred to duty on the West Coast (Crissy Field, Presidio of San Francisco, Calif.), where he served to March 2, 1927. From that date to June 30, 1931, he was on duty as Air Corps Instructor with the National Guard, State of Washington Following his grad-State of Washington. Following his uation from the Air Corps Tactical Following his grad-Vation from the Air Corps Tactical School at Maxwell Field, Ala., he was assigned to duty at Langley Field, Va., where he served until August, 1935. He then attended the Command and General Staff School at Fort Leavenworth, Kans., until June 19, 1936, and after gradua-tion returned to Langley Field, his present station.

Major Haynes commanded one of the six -17 Bembardment airplanes in the Good Will Flight from Langley Field to Buenos Aires, Argentina, and return, February 15-27, 1938.

BUSY TIMES AT KELLY FIELD

The first week of February was a busy one at Kelly Field, with the graduating class of officers and cadets holding the limelight. After months of extensive study, the Cadets' training period at the Air Corps Advanced Flying School ended in a maze of parties, receptions, and marriages, attended by families and friends from everywhere.

One of the featured events of the week was the reunion of the graduating class of February, 1929. Thirty members of this class were present at the Reunion, the details regarding which were published in the previous issue of the News Letter.

On January 21st, from 12:00 to 7:00 .m., at the Kelly Field park, the Cadets staged a party, featuring a Dutch lunch. Sweethearts, friends, and offilunch. Sweethearts, friends, and offi-cers and their families, from Randolph and Kelly Fields were the guests. The Cadets attended a dance at the Kelly Field Officers' Mess on January 27th, and on the night of their graduation and on the night of their graduation (February 1st), a buffet supper was held at the Officers' Mess. Officers of Kelly Field and their wives were invit-ed at 9:30 for dancing, which lasted until past midnight. This party took the place of the usual noonday reception by the graduating class by the graduating class.

Provided the cooperation of Air Corps Reserve officers is secured, it is pro-posed to devote several columns of the Air Corps News Letter to Air Corps Real serve activities. SOLOE ΠI.

Any items pertaining to Reserve and any items pertaining to Reserve and and a separate rate heading of "Reserve News. "I Reserve officers having news of Reserve units: or other activities of general interest for publication in the News Letter. should forward such items to the Infor-mation Division, Office of the Chief of the Air Corps, Washington, D.C. 44, 54, 55 Due to the necessity for economy 10.57 which is the Versity for economy 10.57

publishing the News Letter, its circu-lation is limited, and it is not pos-sible to mail it to individual Reserves officers. It is mailed, however, to 02 Reserve organizations, and will be mailed to club rooms or other meeting where a substantial number of themevica evince a desire to read it. In this is way it is hoped the widest possible not circulation may be secured for the News Letter under the circumstances and to

The permanent National Headquartere United States, formerly maintained at Columbus, Ohio, is now established at the office of the National Aeronautio Association, 1909 Massachusette Avenhe, N.W., Washington, D.C. National Officers of the Air Reserve Association for 1939 are: 1900100 President, Lieut. Albert H. Maaron. Bowman Field, Louisville, Ky, Sound 304 Senior Vice President, Captain B.H. Merchant, 3722 Warren St., N.W. 2010 Washington, D.C.; United States, formerly maintained at

Washington, D.C.; Second Vice President, Major John W.

Ranson, 5640 Swope Parkway, Kansas ib of Aviatio:

Calif.;

Secretary, Major William Li Plimier, 901 Wm. Oliver Bldg., Atlanta, Shimer, 201 Oakwood Manor, Dayton, Ohio, 2012 National Headquarters is in charge of Captain Merchant. Membership applicate tions and dues should be forward with the tions and dues should be forwarded through Corps Area Department Treature ers, wherever possible, for transmisure sion to National Headquarters, deperad communications for the Association 18 should be forwarded to National Head quarters, but communications intended solely for the National Officers should be forwarded directly to them at the ond rolen ond Julyan addresses above given. reibsgire

Major St. Clair Streett, Airs Corps 48 relieved from detail as a member of the General Staff Corps, War Department; effective June 26,1939, and designed as a student in the 1939-40 senior course -42hJPIX

THE GRADUATION EXERCISES AT THE ADVANCED FLYING SCHOOL

Haroo TIA In it is pro-

"Graduation exercises for Class 39-A were held at the Air Corps Advanced Fly-ing School, Kelly Field, Texas, on Wed-nesday, February 1, 1939, the class con-sisting of 4 Regular Army officers, 6 National Guard officers and 161 Flying Cadets: offnis graduating class consti-tuted the largest one in the history of the Air Dorps Training Center. day was the huge Aerial Review at 9:30 a.m., in which 111 airplanes of all types were piloted by 19 flying instructors and 135 students. This was one of the largest graduation Aerial Reviews ever flown at Kebby Mield, and it was witnessed by some 7,000 spectators.

The entire student membership from the Basic Stage of the Primary Flying School at Rendorph Field, Texas, and 12 Air Re-serve_officers_(refresher students), also from Randolph Field, formed a guard of honor for the reviewing party, which con-sisted of the following: Colonel Frank D. Lackland, Air Corps, Commandant of the Air Corps Advanced Fly-

ing School and temporary commander of the Aim Corps Training Center; Colonel Clarence L. Tinker, Air Corps,

National Guard Bureau, Washington, D.C.; Golonel Eugene A. Lohman, Air Corps, Assistant Commandant, Advanced Flying Schoolog

Colonel John B. Brooks, Air Corps, Commandant of the Air Corps Primary Fly-ing School, Randolph Field: Lieut: Colonel Edwin B. Lyon, Air Corps, Assistant Commandant of the Air Corps Primary Flying School; Lieut, folonel Coleridge L. Beaven.

Light, folonel Coleridge L. Beaven, Medical Corps, Commandant of the School of Aviation Medicine, Randolph Field;

Major John R. Morgan, Air Corps, Direc-tor, of Flying of the Air Corps Training Center.

Thirtyfive members of the class which graduated in February, 1929 (Class 3-B), were present for the exercises in connection with their first class reunion, hection which their first class reunion, held at Kelly Field coincident with the graduation of the present class. Many visiting planes arrived at Kelly Field, carrying old grads" and other officers who name to witness the ceremonies. Among these were, in addition to individ-ual filights, one Pursuit and one Attack Squadron from Barksdale Field, La. "Manual form Barksdale Field, La.

yithessod the Aerial Review as special Sussis of Golonel Lackland:

Major General Herbert J. Brees, Commanding General, 8th Corps Area; Brigadier General Frederick L. Martin,

Airs Cosper: Commanding General, 3rd Wing, GEQ Lir Force, Barksdale Field, La.;

Brigadier General Walter G. Kilner, selatente Chief of the Air Corps, Weehingten; D.C.

Colonel W.B. Tuttle, Senior Reserve Officer of the 8th Corps Area, and his

party; Mr. Hinkley of the Civil Aeronautics

Following the Review, exercises were held at the Post Theater at 10:45 a.m., where the class and the "old grads" were ad 'ressed by Colonel Clarence L. were ad 'ressed by Colonel Clarence L. Tinker, Air Corps, of the National Guard Bureau, Washington, D.C., who presented each member with his gradua-tion diploma. All graduates received their "Wings" and the official aero-nautical rating of "Airplane Pilot." Hundreds of friends, relatives, and interested persons attended the various exercises. Among the members of the graduating class is Flying Cadet Clarence L. Tinker, Jr., son of Colonel

Tinker. Colonel Lackland's introductory rsmarks were as follows:

"On behalf of the personnel of the Advanced Flying School and Kelly Field, I desire to congratulate each member of the class on having successfully complated the course. At this time I also desire to welcome the members of the Class of 1929, who have selected your graduation date as the day of their class rounion.

I desire to introduce as our speaker an officer of the Air Corps who, through long and wide experience from Second Lieutenant to Colonel, is so eminently qualified to speak to the members of this class who are now prepared to take up their duties and responsibilities on active duty in the Air Corps. Colonel Clarence L. Tinker has served with dis-tinction in many responsible assign-ments and commands. Having served as Assistant Commandant and Commandant of the Advanced Flying School, he is tho-roughly familiar with the course that you have just completed, and I am sure that, in addition, it is especially appropriate that he address this class. as his son, Cadet Clarence L. Tinker, Jr., is a member of it. I take great pleasure in introducing Colonel Clarence Tinker, United States Army Air Corps. Colonel Tinker's address was as follows:

"General Martin, General Kilner, Colonel Lackland, members of the faculty and members of the graduating class: I wish to compliment you on the fine Aerial Review we have just witnessed. Although I have witnessed many gradua-tion reviews at this school, they never lose their thrill for me. With your permission, I will address my remarks to the graduating class. I feel it a distinct honor, as well

as a pleasure, to be allowed to officially congratulate you upon your success--5-V-7976, A.C.

woort, R.I.

ful completion of the rigid course of instruction at the Air Corps Training Center. Any man, be he military or civilian, must of necessity feel himself especially privileged if allowed for even a short moment to expound his theories to such a representative group of young American manhood.

I beg your patience for a few minutes while I offer some observations on flying and military life. I know you are anxious to complete this ceremony, therefore I will try to be brief. You have just successfully landed on the first mung of the ladder of your

You have just successfully landed on the first rung of the ladder of your flying career. You have mastered the manipulation of the airplane. The evidence of such mastery is that you are here today - graduating from the finest flying training school in the world. I say advisedly that you have landed on the first rung of the ladder, because I have found by my own experience and the experience of my contemporaries that for the pilot, flying training never ends. There is no successful pilot, regardless of his age and the emount of his experience, that does not learn something from each new cross-country flight or each new tactical mission.

The mastery of pilot technic is a fun-demental essential to the military pilot but does not of itself constitute the military pilot. Regardless of our pilot proficiency, and still further, regardless of the proficiency of the aircraft which science provides us. we are still valueless as a defense unit to our country unless we master the tactical appli-cation of the airplane. The B-17 is useless unless its crew can navigate it to a target on land or sea and destroy the target promptly once it is found. It is possible, but not necessary, to carry this exemplification on for each type of military flying. Suffice it to say that the pilot to be of military value must master the tactical employment of the airplane. This means a never ending study of navigation, bombing, gunnery, reconnaissance, photography, and a my-riad of other details that are necessary airplane. to the successful accomplishment of a tactical air mission. Just when we think we are at long last about to mas-ter the details, science and aircraft design upset our calculations. The me-thods of tactical employment of a 100 MPH airplane are obsolete for a 200 MPH airplane, and by the same token the me-thods evolved for a 200 MPH airplane will become obsolete as the archive will become obsolete as the speed ratio of the airplane sufficiently increases.

Modern American life tends to make us impatient and over-anxious to accomplish our purpose in life by rapid strides. This impatience when applied to flying is fraught with potential disaster. The attempt to cut corners or expect pilot skill to take the place of air sense more often than not is expensive in both life and equipment. I do not for one mo-

ment wish to give the impression that I am advising you to become four hour a month airdrome pilots. Such pilots are not only useless from a military point of view, but are very often dangerous to the rest of us. I am simply advising that you balance pilot technic with a background of flying experience before attempting each new flying venture.

a background of flying experience by fore attempting each new flying wonture. I naturally suppose that the most of you expect to make military flying your career and that you will spend youn lives as officers of the Army Air Corps, and in due course of time will be guide ing the destiny of our air defense as our older hands weaken their grip on the This supposition 3 reins of guidance. leads me to discuss briefly a few fundamentals of military life. Any discussion of the military eventually beings up the word loyalty. It is some interwoven in our lives that you will a hear it coupled with the word did solprost line in practically every talk by analy Army officer to military personnel of the From the dictionary definitions of the word loyalty I have selected two to of-fer you for your consideration - One, 'To be faithful and true to lawful gov-ernment,' Two, 'To be true to any per-son or persons to whom one owes fidel-ity.' These two definitions form a or solid foundation upon which to huild a ity. These two definitions will a solid foundation upon which to build a military career. To be faithfulrand military career. To be faithful and true to lawful government is a part of our oath of office as officers of the Army. To be true to the persons to the whom we owe fidelity is a requisite to happy association with our contempora-Of all the ramifications of loyries. alty in military life, the one that appeals to me most is the loyal ty of a the superior for his subordinates. Show me the unit whose commander is intense ly loyal to his men, and I will accept their loyalty and discipline an unquestionable. Loyalty downward automaticate ally produces loyalty upward. A matrix Military law and Army Regulations, and place in the hands of officers.certain

Military law and Army Regulations, place in the hands of officers certain powers and prerogatives which increases as rank increases. The right to command and to demand obedience is expected to be exercised, otherwise is would not be part of our law. However, in exercising command over other men, we's should ever be watchful that we act with understanding and justice. and with a complete lack of bluster and pomp.

I which to thank you for your patience in listening to me and if anythings which I have said is in any way holpful to you in the future, I will feelemere than repaid for descring my normal and role and masquerading as a speaker it.

We are happy today to have the blessure of being present at the class for the bless ten years ago. I was present at the state graduation and have served with several of them at various times since Many of the class have already become outstand-- V-7976, A.C. ing officers of the Air Corps, and the School should feel justly proud of its product. I wish at this time to congrat-ulate the class of February, 1929, and

ulate the class of February, 1929, and to wish you continued success. Nor the present graduating class, I hove for each of you a successful career as good soldiers and useful citizens of our country. May you have blue skies, following winds, and many happy land-ings winds, and many happy land-ings winds. The graduates comprising Class 39-A were listed in the previous issue of the Air forts News Letter. The Flying Cadet

graduates received their appointments as serve and were discharged from their en-listed status on February 1, 1939. They were then ordered to active duty at Kelly Field for their initial 15-day tour of such duty, effective February 2nd. Later, orders will be received reassigning these newly opinissioned Reserve officers to tactical whits of the Regular Army Air Corps throughout the country as well as in the Insular possessions. -lo ch owh

.10 - il. -VOCUBID DOES A LAND OFFICE BUSINESS to any per-

- For 482 nours after the graduating ex-ercises of Class 39-A, Air Corps Advanced Flying School, Kelly Field, Texas, on February 1st, the Army chaplains and the clergymen in the San Antonio area were kept bigg as members of the graduating class and their fiancees, who came from far and fear, took the plunge into the san affinish finance. seal of metrimony.

seal of the set imony. -V Sixteen young men, brave and true, took this plunge, the News Letter Corres-pondent stating that, according to pres-ent information, the following-named new-ly commissioned Reserve officers were married: Second Lieutenants James D. Berry Mandre J. Dechaena, John S. Evans, Otto Boo Hardy, Jr., Harry J. Holt, William E. Hubbard, II, William Lane, Jr., Dwight F. Lewis, P.L.G. Moore, Manrice Ag Morgan, Ralph L. Oliver, Brian Og Neillar Gernard J. Schriever, Delmar N. Skow, George W. Thornbrough, and Herbert Ato Yone Tangeln. Ato Yone Tungeln.

5 Thew News Eletter Correspondent also mentionso the marriage on February 11th atothenFart Sam Houston Chapel of Miss Louise Simmons and 2nd Lieut. John H. de Russy, and adds that and Lieuts. Harrynbu Galusha, Frederick C. Grambo, Leon Wedgrey, Harold E. Humfeld, Hugh B. Mansen; Jr., Robert L. Morrissey, Leenard BawStorm and Harold J. Whiteman Will be married during the following month arrive All of sthe above add up to just 25

camalitities amongst the ranks of the young bachelors in the graduating class. Apparently the young couples involved have daken scant consideration of the month of fine as the popularly considered accession for such permanent unions.

FLYING CADET TERMINOLOGY Continued from previous issues

BISCUIT GUN - An imaginary appliance which is said to be rolled out on the flying field to shoot biscuits and other food up to the Dodos who have made several approaches to the field and overshot on each attempt to land. BLINDERS - The mail orderly, a lower classman of the Cadet Detachment, must shield his eyes with his hand while collecting the upperclassmen's mail. GIG GETTER - A rifle which, in spite of all the time, effort and energy spent on it, fails to pass inspection. (See GIG in previous issue). HOLY FLAW - An expression of extreme surprise, disgust, joy, or just plain expression. HOLD IT DOWN - Suppress the noise. Term is used throughout the day in many various forms, such as in class rooms, mess hall, at drill, etc. SLUG, OR QUILL - Same as Gig..a demerit. THE JEEP - The Link Trainer for instrument flight training.. The bane of every upper classman. WHOOFIN - To tell a rather tall fable. WHAT THE HORRIBLE H. ... !!! An ex-

pression of extreme surprise. More expressive than Holy Flaw. (See above). -----

RANDOLPH FIELD VETERAN NON-COMS RETIRE

Two veteran noncommissioned officers of Randolph Field, both with thirty years' service to their credit, retired on January 31st. Master Sergeant William B. Pulliam, 47th School Squad-ron, and Technical Sergeant Homer Routt, who entered the Air Corps during its early days, will make their homes in or near San Antonio following their re-tirement they both declared

tirement, they both declared. Sergeant Pulliam, who entered the then Air Service at Rockwell Field, Calif., in 1916, after more than a decade of service with ground troops, was not present for his final day of duty at Randolph Field. He was in a hospital bed at Fort Sam Houston Hospital, recovering from a fractured hip received in a fall from a bicycle.

Sergeant Pulliam's first service dates back to August, 1903, when he en-listed in Troop I, 14th Cavalry, at Camp Yosemite, Calif. After six years' service at Camp Yosemite, he spent sev-eral years in civilian life, returning to the service at Rockwell Field in December, 1916. His career in the Air Corps includes duty at Rockwell Field, Kelly and Selfridge Fields, Camp Nichols, P. I., March Field and, final-ly, Randolph Field, where he has been stationed since December, 1929. (Continued on Page 19).

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THE DIVISION AIR OFFICER

By Majer Roland Birnn, Air Corps, Instructor, Air Corps Tactical School

On the staff of every Infantry division, there is, or should be, a Division Air Officer. The Tables of Organization provide for a Lieutenant Colonel, with a force of five Air Corps enlisted men for this air section on the division special staff.

The Infantry division, as it is now organized, has no organic aviation, but depends upon the corps' aviation for the support or attachment of observation aviation and even lighter-thanair units. In our school situations we have the division G-2 and G-3 sit down and werry together, then recommend the attachment of one Observation squadron and a balloon squadron to their division, due to the fact that the division is going into action and must have close control over the operations of the air units upon which it relies for information. As far as we know, such attachment would be satisfactory for a division in actual combat; a division really in the combat zone and not one just being bandied about by a service school student.

With a force of five enlisted men there is little danger of the Air Officer building up an elaborate scheme of paperwork or interior administration. Of all officers on the division staff he should be the least sedentary; there is so much to do outside the confines of division headquarters that he needs an exceptionally able Master Sergeant to head his section force and hold the fort for him while he is away from headquarters on business.

In situations which can be visualized, the Division Air Officer would probably be his busiest just prior to the division going into combat. There are so many jobs for him to perform, so many "actions taken and orders issued" by him that perhaps we can best demonstrate by a chronological chart for a typical situation.

MOBILIZATION PERIOD

- 1. DAO reports to Division Hq.
 - a. To Adjutant General, signs in, presents orders.
 - b. To Chief of Staff, introduces himself as member of staff.
 - c:. To G-3, under whose supervision the mobilization is being carried out.
 - d. To G-1. Discusses personnel of Air Section.
 - (1) Headquarters Commandant called in to take care of DAO's living arrangements.
 - (2) Air Corps Master Sergeant ("Sergeant Air Office") called in to discuss personnel of new section with DAO and receive G-1's approval for procurement of certain individuals for section personnel.

-8-

- e. To G-2 and G-4, in turn. Introduces self. I. To Division Commander. Introduced by Chief
- of Staff.
- 2. DAO organizes and trains section.
 - a. Trains section in duties. Uses Training Regulations and old ACTS mimeos. to train in staff organization, paperwork,

duties, etc.

- b. Reports progress of training to Chief of Staff and G-3.
- c. Arranges with A.G. and G-1 for Feplacements if any of section unsuited for duties.
- 3. DAO orients division staff. Relations with staff.
 - a. Conference with G-2. Fix extent of each one's responsibility in: (1) Intelligence Annex. . erol ann
 - (2) Evaluation of aerial information.
 - Conference with G-3. Ъ.
 - GG-3 directs training directive for division to be in more detail than is found in the corps directive. (2) DAO asks for aviation conference with staff.
 - c. Aviation conference. G-3 presides, Other G's and most of Special Staff present.
 (1) DAO outlines needs in supplies, mans, communication convertion communications cooperation, Also gives his conception of his relation with Special Staff.
 - (2) DAO then discusses proposed training directive. Makes revisions as discussion proceeds. reiser 18
 - d. Later aviation conference. Chief of Staff presides. Division Commander present, also Brigade Commanders. .50 t 20× lined. 3 8-1 .2 (2) Approved by Division Commander af
 - ter minor revisions suggested by Brigade Commanders and staff members, a
 - e. Reports results with training directive to Corps Chief of Aviation. yot 8-trains division troops. Arrid .
- 4. DAO trains division troops.
 - a. Conference with Brigade, Regital and some Bn S-3's. G-3 present. ు సిలియా గ్ర
 - (1) Explains training directively (2) Announces standard of profisioncy in cooperative work, ground units with air service. Spone.
 - b. Arranges for simulated missionsowhen mobilization will have been completed.
 - c. Co-ordinates with G-4, Signal and Ordnance Officers: supply needs for future; panels, pyrotechnics, air signal equipment, etc., for troops. ≣Ø ask≓
 - d. Co-ordinates with other staff officers in matter of proposed simulated missions. 211022 - P
 - e. Reports progress to G-3 and Corps Chief AN AN AN of Aviation.

MOBILIZATION COMPLETED-FRAINING PERIOD BEGINS

- 1. Troops training, preliminary period. Main a. Observes execution of training in cooperative missions (simulated air service)
 - b. Reports progress continually to 2-3, or accompanies G-3 on tactical inspections.
- 2. Confers with G-3 on use of aviation from corps' groups (still being mobilized);
- 3. Confers with Corps Chief of Avistion on employment of Observation and Ballyon 110 9. IM CONF Squadrons.

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4,	Confers with Corps Chief of Aviation and	
	Group Commanders on assignment of squadrons	
	for troop training.	:

- 5. Gets decision from Chief of Staff as to extent of command he exercises over airtroops attached to division (division air service). 11, DAO leaves G-2 office to reconnoitre ba-(Staff Officers' Field Manual, part one,
- par. 23, 1. 1.) Troop training, employing actual air units. 6. a. Arranges liaison officer training be
 - tween Observation squadron and all troops and between Balloon Squadron and artillery. Reports training progress to Squadron Com- 12. manders.
- b. Conference, troops. Group Commander and S.3, Observation and Balloon Squadron Com-
- manders and S-3's, and S-3's of brigades. regiments and s-3's, and S-3's of brigades. regiments and as many battalions as pos-sible. Subject: Progress in training in co-operative missions, standards of profici-ency, needs. Presided over by G-3, with G-4, G-2 and Signal and Ordnance Officers present if available.
 - present if available.
- c. Reports to Corps Chief of Aviation on accomplishment in troop conference.
 - d. Observes execution of cooperative training, accompanying G-3 on tactical inspections or reporting progress to him.

IN THE COMBAT ZONE. IMMEDIATELY PRIOR TO COMBAT.

- 1. Situation: Division is advancing toward enemy Comps G-2 reports are inadequate. Division meeds closer cooperation by air service.
- 2. Attachment of air service to division. a. G-2 suggests to G-3 the attachment of air service to division
- -b. DAO suggests to G-3 the most desirable squadron for attachment.
- Division Chief of Staff requests Corps C-3 for attachment.
- d. Division gets one flight attached for operations within three hours.
- 3. DAO to Squadron C.O. (at group airdrome area) by phone.
- a. Needs of flight? 40
- b. Meeds of division?

1 A A S

- 4. TAO checks availability of previously recon--or noitered advanced landing field and message .dropping.ground. ar Near CP.
- . 5. Others up near present head of column.
- 5. DAO asks G-4 for engineers and other labor to improve landing field.
- 6. Landing field arrangements. a. Information on adequacy, etc., of advanced landing field phoned to squadron. Sergeant AO keeps squadron informed as to progress.
 - Wessenger service and wire communications landing field and division CP arranged between DAO G-3, Sig. Off. and Hq. Cmdt.
- 7. Supplies on advanced landing field.
- a. Group S-4 to DAO; "When move supplies to per field?"
- b. DAD to Group S-4; 'Will inform you when
- division rear area less congested. 8. G-3 to DAD; and G-2. "Use all planes on re-connelssance missions."
- 9. DAO confers with G-2 on missions for obser-

vation flight. DAO recommends extent of flights, routes, total number missions.

- 10. DAO in G-2's office evaluating observers' and squadron operations reports as to trustworthiness, etc., of each report.
 - loon beds and other arrangements for Balloon Squadron and interview observation teens at advanced landing field. Receives information on possible landing fields up forward from team of command plane and others.
 - DAO returns to Division CP: Informed by G-3 rest of Observation Squadron will be attached to division at 3:00 p.m. Given movement order of Balloon Squadron in division area.
- 13. Division Commander decides to attack in morning. Staff works up order for attack.
- 14. DAO to Group S-4, (after consultation with G-3 and G-4) "attach emergency supply truck to Balloon Squadron truck train moving into division area tonight,"
- 15. DAO to G-1. Shows areas, on map, where best available landing fields are located, (to assist G-1 in recommending site for new CP for attack).
- 16. From G-3, ascertains gist of division plan of attack.
- 17. Conference with G-3 and Artillery Commander.
 - a. Recommends attachment of Balloon Squadron to Artillery Brigade, as soon as Squadron arrives in division area.
 - b. Recommends 3 airplanes for artillery support, 2 for command missions. c. Artillery Commander asks for Liaison
- Officer from Observation Squadron. 18. Checks G-2 Intelligence Plan (aviation
 - section thereof), makes recommendation thereon to G-2.
- 19. DAO to Observation Squadron Commander asks for 3 Liaison Officers to report that evening to Division CP.
- 20. To G-4 and Provost Marshal. Requests that they expedite movement of aero supply truck from division rear boundary to advanced landing field.
- 21. To 1st Sergeant, Special Troops. Sergeant AO arranges for care of four men in advanced landing field crew.
- 22. Signal Officer notifies DAO of new CP and advanced landing field location, and time of opening of both. They confer on wire communications between field and Division œ.
- 23. DAO to Engineer. Arranges for labor in improvement of new advanced landing field.
- 24. Conference with G-3, Headquarters Commandant, and Signal Officer. Arranges for switching of messenger service from old to new landing field, between field and CP.
- 25. Intelligence Annex approved.
 - a. DAO adds explanatory notes and forwards copy to Observation Squadron Commander. b. DAO notifies G-2 and G-3 copy being
- forwarded. 26. Liaison Officers arrive from Observation Squadron.

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a. One officer to Artillery Brigade S-3.

T. One officer to S-3 of Inf. Brig. making enveloping (main) attack.

c. One officer remains at Division CP until specially needed.

27. DAD and Liaison Officer #3 to G-2 office. a. Scan observers' and squadron operations reports.

b. DAO instructs Liaison Officer in evaluation of reports, how far he should go in evaluation, not to assume responsibilities of G-2 who evaluates them according to their military importance.

c. Leaves Liaison Officer at G-2 office to continue such work.

- 28. To new advanced landing field. a. Makes sure emergency supplies satisfac-tory.
 - b. Inspects improvement work on landing field by engineers.
 - c. Estimates time when field will be available for use.

d. Inspects progress on establishing wire communications.

- 29. To G-4. 'Need more labor in preparing advanced landing field."
- 30. Arranges with Liaison Officer #3 to share duties throughout night.
 - a. Evaluation of observers' reports. b. Progress on advanced field.
- 31: TAO to quarters and sleep.

DURING COMBAT

- 1. Inspects G-2 and G-3 situation maps.
- 2. G-2 complains of inadequacy of reports. a. Enemy reserves not located.
 - b. Two dropped messages lost at old drop-
- ping grounds during night. 3. DAO to Observation Squadron S-3 (by phone); arranges for latter to read copy of missing reports to Assistant G-2, when such copies have been located.
- 4. Receives an observer's report that Division CP easily seen from air; not well campuflaged and too much in-and-out traffic, easily observed by enemy observation aviation.
- 5. DAO reports: a. Poor camouflage to Headquarters and Commandant and Engineer.

b. Excessive traffic near Division CP to Headquarters Commandant.

6. Observation Squadron Commander and Balloon Group Commander visit Division CP. a. DAO introduces Balloon Group Commander to

Artillery Brigade S-3.

b. DAO conducts Observation Squadron Commander through G-2 office, then to advanced landing field, together with representative of G-2 section, latter to interview reporting observation teams at advanced landing field instead of at squadron airfrome in rear areas.

- 7. DAO turns transportation and driver-guide over to Squadron Commander who goes forward to reconnoitre possible sites for new advanced landing fields (sites satisfactory to Squadron Commander) and consult
- Liaison Officer with attacking brigade. 8. DAO returns with G-2 transportation to Division CP.

- 9. Conference with G-3 on assignment of command airplanes on missions.
- 10. With G-2 revises aviation section of Intelligence Plan to conform to rapidly changing situation.
- 11. Notifies Squadron S-3 of such changes 24
- 12. Squadron Commander returns to Division CP Takes Liaison Officer #3 with him on return to Squadron CP. nis asvice
- 13. DAO arranges with QM, disposition Stiwreckage of friendly airplane crashed in disc vision area. Coordinates with Group S-4.
- 14. Conference with Division Commander Chief of Staff, G's, and Engineer Officer of Staff. passive means of defense of division establishments and reserves against possible enemy air attack.
- 15. Continues work with G-2 in evaluating re-ຣ ວຣ ອໄປປາກ ports.
- 16. Instructs Ass't G-3 prior to general reconnaissance flight by latter in commend 03 9 SW 3 800 airplane.
- 17. Memo to general staff sections of aviation matters, material for their section re-Joursen and ports. is stocknerwj

MEATHER OFFICE COES PLAGES SIISI

Recently the weather personnel of Handolph" Field, Texas, were both surprised and delight ed to see a trailer, full of weather instru-ments, drive in. It was an exhibit of the ments, drive in. It was an exhibit of the Frieze Instrument Company. The operator con-ducted intergreted visitors through His "Weather Office on Wheels" and explained all the latest weather instruments. The one in strument which received more attention than any of the others was the radio-meteorograph. It has long been known at Randolph Rield Jist what a radio-meteorograph is but, until than, most of the men had never seen one. Mit Stevenson, the operator, gave a very good ex-planation as to its working parts. planation as to its working parts. 5 10 the

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LOST AND FOUND

On the afternoon of November 25, 1938, Major A.B. Custis, Ordnance Dept., Barksdale, Field, La., turned in at the Store-Keeper, Mindow of the Flight Division, Naval Aircraft Fagiory. Philadelphia, Pa., the following listed flying equipment:

- 1 ea. Helmet, Flying, Type B-3 moarebas
- l ea. Helmet, Flying, Type B-3., 102 16564. l pr. Goggles, Flying, Type B-7. (onerleasied bas
- corner oroken). and Voul on 1 ea. Heal-Set, Radio, Flying, Type 45-18, On the afternoon of November 27th, Majer

Custis returned to draw out flying equipment. and the above listed items were found so the de The Store-Keeper, Mr. JaBarson, Texmissing. plained that to facilitate the speedy issue of equipment and as a courtesy to the Army pidets, he had allowed several of them to icomet into us the cage and get their own equipment, and that he thought it was possible the missing output ment had been taken by them by mastakeout a net

Major Custis has sent out letters of infinity to all the visiting Army personnel Jate the STUG Naval Aircraft Factory regarding this squipment. V-7976, "A.C.1 :0 moint of ice-

-all lo not on vibicer c.

ALBROOK FIELD N.C.O'S GO RIDING IN A CAYUCA By the News Letter Correspondent

As you know, "cayuca" is the Panamanian upon being allowed to furnish a house name of ervar boat hewn out of a log and is for the weary voyagers to sleep in, as the chief mode of transportation of the natives along the rivers and the coast of Panama, but for ocean travel - well, that is the reason for this story. It all started back in April, 1938,

when the Indians in the lower Darien Province of Panama made and gave to Mas-ter Sergmant W. D. Lucy a "cayuca," 28 feet long 4 feet wide, and 4 feet deep, hewn from the heart of a hardwood tree. When first launched it was just about as stable as a log. Being round-bottomed, with a narrow beam, it would roll in the water upon the least provocation. The boat was towed to Balboa and hauled out to Albrook Field, where Master Sergeants Anderson and Lucy, Technical Sergeant Johnson and Staff Sergeant Richard W. Devenport spent most of their off-duty hours fixing it up, which involved the installation of two 25-gallon gasaline tanks, an ice box, dry lockers, seats, windshield, an 8-inch keel, anti-rolling chocks, dacking, electric lights, and a well for a 25-horsepower, 4-cycle out-board motor.

board motor. The boat was finished and launched during the latter part of November. The builders were so confident in their handiwork that they put in for, and ob-tained, a 27-day furlough to visit Central American countries, with the in-tention of making the trip in the "cauce." So on Sunday, December 4, 1938, Master Sergeant Devenport set out before day-light on a trip to anywhere down the Pacific coast of Central and South Amer-ica, with a full load of gasoline, pro-visions for a month, a week's supply of water, cooking utensils, dishes, fishing water, cooking utensils, dishes, fishing tackle, guns, ammunition, clothing, med-ical kits, cameras, etc., which altoge-ther weighed slightly over a ton, and by noon that day they were sixty miles down the coast, forty miles out to sea and going strong going strong.

Anderson and Davenport acted as Cap-tain and Ohief Engineer, respectively, and Lucy as the Deck hand and Chief "Looker Outer."

The first day proved uneventful, and the first night was spent at Gorda Point, about 85 miles from Panama. The second day was a duplicate of the first; except that upon arrival at "Genachine;" a native town of 2,000 per-sons; the lone member of the National Police; who acts as Customs, Immigration, Judicial and Military Authority there in a most jecurteous manner ascertained the interstity, mission, place of depar-ture destination, etc., and after hav-ing found that they were not deserters or felons fleeing from the law, insisted shore of a small cove where the Pinas

for the weary voyagers to sleep in, and arrange for someone to do the cooking. This offer was accepted with thanks, and the gang settled down for the night, but not for long, as one of the Indians had recognized Lucy as the gringo they call "El Doctor" down the coast at Jaque, and passed the word that there was a doctor in town. Almost immediately the three gringos were besieged by Indians and other natives asking for medicine for every known kind of ache or pain, and before the night was over many cuts, burns, bruises, etc., had been taken care of. A minor operation was performed on one of the natives who had a large splinter in his foot that the local Indian medicine men had been unable to remove, so now all three members of the party were village doc-tors. There being no medical service or medicine available in the interior or out of the way places in Central America, anyone who paints a cut with iodine or gives someone a CC pill is looked up to by the natives and called "Doctor." "Doctor.

The second night, our adventurers were many miles from any roads or means of fast communication, and they were hearing the sound of the Indian signal and dance drum that was to be the even-The ing music for many more nights. sound of these drums carries for many miles, and makes your hair stand up, if you are alone in the hills.

The next day they shoved off and again headed out to sea and farther down the coast. Smooth sailing was en-joyed for about three hours; then Mother Nature and the Weather Man came to the party and brought with them a high wind, strong current and specially made waves with white hats on them. After battling the elements for a distance of 65 miles, they dropped anchor in the Bay of Puerto Pina, about 25 mile miles from the Colombian border, an ideal place to spend a vacation, and there established their base camp in an Indian hut that had been built for them by the local tribe of Indians. The hut was about 25 feet square, raised up on poles ten or twelve feet from the ground to keep the animals out, and cov-ered with a palm-like leaf which made the hut waterproof and is supposed to last from five to ten years. There were no doors or windows in the hut in fact, there were no sides, and the only way to get into it was to climb a notched log which acted as steps and front door. When you wanted to be V-7976, A.C.

River flows into the ocean. Fresh water for drinking and cooking purposes was available within a few yards of the hut. Camp was established. The automobile

Camp was established. The automobile battery type radio, which was something the natives had never seen, was set up by stringing an aerial to the top of a tree and hooking on a 6-volt battery. A native was engaged as a cook and caretaker. Fishing tackle for deep sea fishing, and the shot guns that were taken along for hunting were assembled, and general preparations were made for a real vacation.

Early the next morning the voyagers became fishermen and went out where the wild "Pez Gallo" (meaning rooster fish), corbina, dolphin, and many other species of fish hold forth. Davenport won the honors for the day by landing ten assorted species and sizes and, needless to say, the boat was welcomed back by the natives, as they had been told that all of the fish that the Americanes did not want for one meal would be divided amongst them. In return, theygave the gang oranges, limes, chickens, etc.

amongst them. In return, they gave the gang oranges, limes, chickens, etc. The majority of the natives in that part of the country consist of Indians who are descendants of the Aztecs, and they are a very primitive people. The clothing problem for them is easily taken care of, as the men wear an abbreviated gee string of cloth or beads, and three yards of colored cotton cloth, wrapped around the hips and tucked in at the waist, constitute the morning, afternoon and evening dress for the ladies, augmented by painting the body and limbs with vegetable dyes. Coin, shell, and animal-teeth necklaces are worn on special occasions. The children up to about ten years of age are not hampered by any clothes at all.

by any clothes at all. They all live on fresh water streams where fish and wild game abound. Corn, yacca, sugar cane, yams, plantains and rice complete their menu. The women raise the rice, corn, etc., and the men furnish the home larders with fish and game. Salt is obtained from the various traders who go to the villages on the coast, and cane juice is boiled down to a syrup and used as sugar.

Fish are caught with traps and spears made of black palm wood, and game is killed with either bows and arrows, traps, or 28 gauge shot guns. Ammunition for these guns (trade guns) is a problem, but they seem to get on very well by buying brass shells, caps, powder, and sheet lead from the traders. Shot for the shells is made by punch-

Shot for the shells is made by punching holes in a gan and pouring hot lead through these holes into coconut oil, and then the tear-drop shaped shot is trimmed to the size wanted. The beak of a banana bird is used as a powder measure; wild cotton is used for wadding; and beeswax used to seal the shell so that the powder will not get wet when they swim the streams or get caught in the rain. They always bring home the bacon.

There are no horses or mules in that part of the country, but they do have domestic animals such as hogs and cows, also fowls - a few chickens and ducks. Chickens, ducks and turkeys are hard to raise, due to the fact that tigers and snakes raid the chicken coops frequently.

The other natives are mostly Panamanians or Colombians, who live near the ocean and subsist on what they raise or buy from the various traders who stop there. They are all very friendly to white men, and everywhere a white man goes he is made welcome and assisted in every way possible. They are ercellent boatmen, guides and packers, and our party took full advantage of their willingness to help by using them on trips up the rivers, either in the "Paulita," Lucy's boat, or in the shallow native river "cayucas," which, by the way, are so shallow, narrow, over-sensitive on the triger that, when loaded, if you change your chewing gum from one side of your mouth to the other they will ship water.

of your mouth to the other they will ship water. Wild game in the Darien country is plentiful, and consists of turkey, a sort of grouse, pigeon, dove, deer, rabbit, "conejo" (which means rabbit in Spanish, but the size and shape of the animal is nothing like our States' rabbit), tapir, tiger, wild dog, river otter, squirrel, wild hog (which consist of the pecarri, cienna and the regular old razor-back hog) and, of course, there are many species of monkeys, parrots, birds, snakes, and butterflies in the woods.

Many interesting experiences were e_{n_x} joyed by our explorers, and two of them should be classed as "Believe it or not," which were:

One evening as the gang went, into one of their camps, a large conejo ran out on the beach toward the water with a tiger weighing about 150 pounds right behind him. The two Indians who were in camp grabbed up rocks and went into the water and killed the conejo. The tiger got away, as the guns were locked up in a dry locker and could not be assembled in time to beg the beast. Even though there was grumbling about locking guns up where they could not be reached in a hurry, our gang had conejo for supper.

conejo for supper. The second "Believe it or not" happened in another camp where the water at high tide was just a few yards from the hut. One of the Indians, who had just received a course of instruction in the operation of the gun with the two cannons (double-barreled shot gun to you) as he called it, saw a movement in the water, grabbed the gun and fired then climbed down the notched log used as steps and retrieved a ten-pound incok he had shot. Our gang, thanks to -12ant amont -

the shotgun and not the fishing rod, had fish for supper. After a stay of fifteen days in the Darien country, during which they travel-ed over 200 miles down the ceast in waters of Fanama and Colembia that would make many an old salt comment about

make many an old salt comment about rough water, our gang came back home telling many and varied tales of adven-ture, some of them being verified by photographs taken on the trip and others being just adventure tales. Now don't get the idea that our adven-turers did not have to climb mountains, wade streams, swim rivers, cut trails, and carry equipment in order to see the many interesting things that are in that wild and primitive country, for they really did, but from all we hear it was worth the effort.

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SAMAZING PERFORMANCES WITH THE BIG PINS

Atthough items relating to sports are generally placed under the heading "Keeping Fit," in the last page or so of the News Letter, the following contribu-tion from the March Field Correspondent deserves a big headline, viz: "The this if you can. Private First Class Robert Ammerman, 4th Air Base Squadron, March Field, amazed spectators when he bowled a perfect game on January 24th It created quite a bit of talk, as it was the second "300" score to be rolled in the four-year history of March Field's regulation alleys where many an expert bowler has flung hard rubber at uncomplaining pins. uncomplaining pins.

But the amazed spectators became dazed when Ammerman repeated his feat on January 25th

Everyone admired Ammerman. They con-

Everyone admired Ammerman. They con-ceded he was a mighty fine bowler. But it was just luck, they said. It won't happen again in a long time, they added. "On January 31st, Ammerman calmly chalked up another perfect game. The dared, amazed spectators were flabber-gasted (fooled you). On February 5th, the amazed, dazed, flabbargasted spectators watched Ammerman bowl 281, then 287, and then another 300. (Confidentially, the spec-tetors are now completely befuddled; and ther 2000. (Confidentially, the spec-testors are now completely befuddled; they effored no comment this time - they only granned.) If Anmerman keeps this up we'll soon run out of adjectives."

achi phang

The left Observation Squadron, Marshall Field Fort Riley, Kansas, stood inspec-tion and passed in review the morning of January 28th, in honor of Brigadier Gen-eral Guy V. Henry, the Commanding Gener-eff Fort Riley, who retired from ac-tive service on January 31st. Band music for furnished by the 9th Cavalry Band, added to the occasion. -13-The let Observation Squadron, Marshall

TRAINING BY THE 5TH BOMBARDMENT GROUP

The intensified program of training under may by the 5th Bombardment Group in the Hawaiian Department since Janu-ary 1st is proceeding at high speed, with all units dropping bembs on prac-tically all flights and perfecting themselves in the other phases of train-ing much as guaranty payigation and ing, such as gunnery, navigation and instrument flying. In the latter, since no suitable radio beam station is available at present, technique of ascent and descent through overcast, using the homing loop and a local broad-casting station, is being emphasized. Due to the character of weather condi-tions encountered in this vicinity, this method appears to be feasible. The system used is as follows: after arrival at a point over the station, the formation flies away from it on a predetermined course for three minutes. At the expiration of this time, the leader turns 180 degrees and returns to the station and begins his descent. Remaining planes turn at one-minute intervals and follow in trace. Each airplane in making the descent loses altitude at 500 feet per minute at an indicated airspeed of 130 miles per hour, and flies out from the station for a time necessary to lose one half of the difnecessary to lose one nair of the dif-ference between ceiling and the initial altitude, then turns 180 degrees and retraces the course, maintaining the same rate of descent until station is reached or "break through" is accom-plished. A variation of this system has been tried in which the return leg of the descent does not return to the station but is so placed that it classes station but is so placed that it clears the Island land masses.

Record bombing and gunnery by the squadrons of the 5th Bombardment Group, under the provisions of TR 440-40, is being conducted as follows: gunnery by the 23rd and 72nd Bombardment Squadrons and bombing by the 31st Bombardment Squadron. The Group gunnery range, situated in an area from six to twenty miles off the west shore of Oahu, includes sufficient space for simultaneous firing from three airplanes. In-terference by bad weather is not often encountered in this area. The present bombing target is not so well located in this respect, being situated at Ahua Point, about one mile southeast of Hickam Field. The almost ever present trade wind blowing from the northwest produces a cloud bank that often covers the proximity of populated areas, which

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RANDOLPH PERSONNEL STAGE RADIO PROGRAMS, stated "PRODUCING THE BEST SEVAGE EF-

A series of four fifteen-minute interviews, held once a week, concerning Randolph Field and the Flying Cadet Detachment, are being heard in the San Antonio area over KTSA, the local outlet for the Columbia Broadcasting System. Starting soon after Christmas holidays, the programs are designed to tell the story of a Flying Cadet from the day he reports to the Secretary's Office to matriculate until eight months later when he completes his training on the Basic Stage and is sent to Kelly Field for his final training.

According to the present plans, representatives from the Advanced Flying School will take up the program and in an additional series of interviews, will tell the story of the final four months of the one-year course. On the first of the four radio programs, Colonel John B. Brooks, Commanding Officer of Randolph Field, and also Commandant of the Primary Flying School, answered numerous questions concerning the entrance requirements for Flying Cadets, the physical examination, the pay and allowances of a Flying Cadet, and the method of making application. Colonel Brooks then turned the program

Colonel Brooks then turned the program over to Captain James S. Stowell, Commandant of Cadets, who told of the housing facilities for the student pilots, the clothing issued them, and the problems of the Mess Officer. When questioned on traditions of the Cadet Detachment and Cadet "slanguage", Captain Stowell reeled off a typical sentence in Cadet parlance that surprised even the station announcer.

The second of the programs featured Captain James W. Andrew, Primary Stage Commander and Captain Charles A. Harrington, his assistant, who told of the course as given during the first four months, and the maneuvers used for instruction purposes. The third program dealt with the Academic Department. Major C.W. Pyle, Director of Ground Training Captain Guy B. Henderson and Lt. Don Zimmerman of the Ground School Department covered this phase. The final program of the series will cover Basic Stage, and their training program. Captain B.A. Bridget, Basic Stage Commander, and Lieutenant Robert W. Burns, Assistant Stage Commander, will be the speakers. ------

RANDOLPH SEWAGE PLANT GIVEN TOP RANKING

Randolph Field's sewage disposal plant was given top ranking in the State of Texas by the Texas State Health Officer, Dr. George W. Cox, in his annual Honor Roll, issued recently. The announcement stated "PRODUCING THE BEST SEWAGE EF-FLUENT FOR THE YEAR., RANDOLPH FIELD".

Nominations for the Honor Robleare: submitted by the District Medical Directors of the Texas State Department of Health from more than 600 Texas minicipalities, and selections are made on the basis of accomplishment and record of operation, treatment and produc-tion, as reviewed by the State Department of Health at the close of each The State Health Officer, in 12 year. transmitting the Honor Roll, remarked that the placement is a distinct compliment to the post and is the "result of definite achievement in competivion with all of the other systems, and so go plants in the State".

The Sewage Disposal Plant, located on the west side of the Cibolo Orack, just off and across the County Road from the main reservation, about one-half mile south of Schertz, Texas, was constructed in 1931.

"Monthly report is submitted by the Post Surgeon to the Texas State Bepartment of Health, covering wind direction, daily sewage flow, settleable solids and stability of effluent from filter bed, chlorine used, residual chlorine and outlet stream stability.

Suggestions and instructions received frequently from the State Board of Health, based on monthly report of the Post Surgeon, are closely followed and have proved to be extremely helpful in the efficient operation of this plant", Major F.D. Shawn, Q.M. Corps, Fost Quartermaster, stated.

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COMMUNICATIONS AT RANDOLPH FIELD

XI other

Several changes have recently occurred in the Post Communications' Section at Randolph Field due to circumstances described, by means of the alphabet, as E.T.S. This section could make headlines in the "Believe It Or Not" column by the statement that their operators "are too ambitious". In recent months, three enlisted men have left the section when their term of enlistment expired, and have returned to civiPian life for the purpose of continuing their education. As a result, it has become necessary to train new operators to fill the vacancies.

Apprentice operators are picked with the utmost care from available applicants. Special attention is paid to the individual's education, personality, his adaptability to radio operation, speech, typing speed (touch system), and interest in radio. Prospective operators are given voice instruction in enunciation, voice speed, etd, before he is allowed to make regular breadcasts over the air. Special state -14-

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tion is value paid to alertness, accuracy, on amateur frequencies. and promptness in the dispensing of in-formation to pilots. After prompective operators have served their apprentice. ship, they become Junior Operators. Senior Operator is in charge of each watch, with a Junior Operator as his as-sistant. The Chief Operator, or one of his assistants, is always on duty to supermise each watch. Operators make hundreds of contacts each week with permanent personnel flying on local and crosscountry missions, and with transient aircraft.

of A Collins 45-A, 40 watt transmitter, operating on 4280 kilocycles, is used for cross-country work, and contacts with aimplanes within a 500-mile radius and alph Field is not unusual, However, due to atmospheric conditions at times and occasional dust storms, it is mot unusual to fail to make contact at 15 miles from the station.

Ffc. sp. 3cl. Allen H. Carlisle of the 53d School Squadron, one of the old tim-ers in the station, is returning to civ-ilian Pife February 24th, for the purpose of completing his education. Carliste came to the radio station in May, 1936, as an Apprentice Operator and worked his way up to Assistant Chief Operator.

LANGLEY FIELD'S AMATEUR RADIO STATION HANDLES CONSIDERABLE TRAFFIC By Norman E. Noll

Swolle

Radio DX'ers throughout the country have often heard the hum-drum like dot and dash system of the amateur radio sta-tion W3GIS (WLMG), but only recently were they apprized of the fact that the local station was awarded the honor of being listed as one of the nation's leading am-ateur traffic handlers.

Owned and operated solely by Private First Class, AM First Class, Villiam H. Stull of the Administrative Section, Base Hg. and First Air Base Squadron, this station was organized in 1936 for the purpase of standing by and being fully prepared for immediate operation in case of any emergency.

The call letters WLMG were assigned by the War Department at Washington for the wse of this station in army amateur work, on special army frequencies, and to as-sist station WLM of Washington in admin-. distrative and message handling, the latter being the national net control station for all AARS.

When oit became a member of the American Badic Relay League (organized to band -together the amateur radio stations for emergency and message handling), W3GTS'

- Transmitter was rated at 200 watts output -1'5-

An important function performed by the Langley station is to train amateur operators in procedure and to furnish emergency set-ups, in case of any disaster. Being directly affiliated with the American Red Cross, the medical supplies, boats and any other outside help could be obtained within a short period of time.

While no local emergency operation has been necessary, station WLMG stood by in preparedness for operation during the recent hurricane scare. Then, too, the operator has worked directly in other disasters, similar to the flood of 1936 that swept Pennsylvania, Connec-ticut, Maryland, West Virginia, Ohio, and many other neighboring states. ---000---

THE TENTH ORDNANCE SERVICE COMPANY By Norman E. Noll

It is now a little more than two years since the Tenth Ordnance Service Company, located at Langley Field, Vir-ginia, has established itself among various units in the General Headquarters Air Force.

Headed by Major Edison A. Lynn, Ordnance Department, this unit began its important role at the time of the organization of the GHQ Air Force. At that time it was deemed necessary to furnish Ordnance service equivalent to that provided for the major components of the Army. After a series of conferences between various Air Corps and Ordnance representatives, the Tenth Ordnance Company began to render their service to the GHQ Air Force.

The original plan provided six platoons in the entire company; one at each of the air bases included in the organization of the GHQ Air Force. These six platoons in the organization of the GHQ Air Force are still in effect, the main platoon being at Langley Field, Va.; the Second Platoon at Mit-chel Field, N.Y.; the Third Platoon at Selfridge Field, Mich.; the Fourth Pla-toon at March Field, Calif.; the Fifth Platoon at Hamilton Field, Calif. and the Sixth Platoon at Barksdale Field, La.

The First Platoon comprised an initial strength of one officer and 43 enlisted men. In addition to all other duties as Air Base and Second Wing Ordnance Officer, Major Edison A. Lynn was assigned as commanding officer of this organization.

This outfit was organized from enlisted personnel who voluntarily transferred to the various platoons from the Third Ordnance Service Company, the Sixth Ordnance Maintenance Company, Air Corps organizations and through recruiting.

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As soon as the men and officers were provided with the basic fundamentals, the necessity for training men to handle the new problems of modern aviation was realized and, through the personal efforts of both Colonel Russell L. Maxwell and Major Lynn, the Tenth Ordnance Service Company School of Aviation Ordnance was established. Classes moved underway on October 1st, 1937, with a comment plete faculty of two officers, three noncommissioned officers and one civilian, viz.: Colonel Russell Maxwell, Chief Director; Captain Edward P. Mechling, Director; Mr. Thomas L. Gaines, ammunition inspector of all items pertaining to emmunition; Technical Sergeant Robert F. Tokoly. Chief Instructor of the Robert Tokoly, Chief Instructor of the entire class; Staff Sergeant Francis E. Rogan, Instructor of Small Arms, and Sergeant Fred Riley, Assistant Instruc-

tor of Small Arms. The extensive bombing with both practice and demolition bombs in the fall of 1937 presented the Ordnance Depart-

ment a splendid opportunity to study the technique of bomb service. Upon return from the March, 1938, Second Wing Exercises in Florida, it was necessary for the Tenth Ordnance Service Company to prepare for the General Head-quarters May maneuvers throughout the Northeastern Section of the United States. This exercise called for the full participation of the Ordnance mem-bers, 25 officers, 80 enlisted men, and approximately 40 trucks being employed. Bombs were available for Pursuit, and Ordnance service was faithfully provided at twenty air fields.

Later, the October Anti-aircraft Exercises kept the Langley Field Platoon busy providing all needed Ordnance ser-vice for both Langley Field and the Pope Field, N.C., areas. Dropping all the cares and worries be-

hind, members of the 10th Ordnance Sernind, memoers of the 10th Ordnance Ser-vice Company recently celebrated "Organi-zation Day" with a banquet in a promin-ent restaurant at Hampton, Va. The principal guests included Lieut. Colonel Edward Montgomery, Chemical Warfare Of-ficer of the Second Wing; Major Steward H. Elliott, Ordnance Officer of Fort Monroe, Va.; Major Edison A. Lynn, Sec-end Wing Ordnance Officer; 2nd Lieut. Harry R. Melton. Jr.. Assistant Air Base Harry R. Melton, Jr., Assistant Air Base Adjutant of the Peninsula Airdrome; Mr. Jefferies, civilian employee of the Ordnance Department at Fort Monroe; Thomas L. Gaines, Ammunition Inspector of the GHQ Air Force, and Warrant Offi-cer Henry C. Wathen. Members of the First Platoon, Tenth

Ordnance Service Company, who were pre-sent, included: Technical Sergeants Ernest Beseler, Robert F. Tokoly;

Staff Sergeants Roger R. Fitzwater, Lester E. Cummings, George A. Aamold, John A. Dolan, Herbert V. Jones, Leroy Maher;

Sergeants Marvin G. Cooley, John E. Gillespie, Pete Kovacevich, Fred A. Riley;

Corporals Jake D. Robbins, Stanley J.

John Dziubek, Charles R. Mills, Herry 4. Powell, George S. Shearin, Herold S. Smith, Arthur R. Thomas;

Drivates Wilbur W. Boyd, Wright D. Bradshaw, William A. Brown, Robert V. Dimmig, Anthony Dirienz, Joseph A. Drobinski, Paul W. Fowler, Jasper S. Goodwin, Frank Gusky, Elmer S. Mahneles William C. Hall, Gunnar Idland; Charles E. Jackson, Richard C. Jones Fesse Pi E. Jackson, Richard C. Jones, Fesse P. King, Bennie Kinley, Cleatis Lambert, Frank Pepe, Earl S. Pierce, Eugene B. Reed, Marley J. Thogmartin and Herry G. Williams. cront tells

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The Oil Dilution System (From Page 1) , ż 3.C.2

one-half hour and less than one-half of one percent of the oil will be over five hours old. It is this offect that makes it unnecessary to change the -E ac oil in a hopper type tank. Oil Dilution Tests of stagila

brin. Recently a test was run at the Materiel Division to determine the fire: hazard created by diluting the will in the main of the with gasoline. A BC-l airplane was used for the purpose. After warming, up the engine, the oil dilution walve was held open for seven minutes to obtain as severe a condition of gil dilution as possible. A gasoline-soaked rag was lighted and thrust under the cowling over the engine breathers There was no flame visible under the cowling when the burning rag was remov-ed. A further test was run by diluting the oil as before and igniting the fumes at the breather with a spark plug. The fumes ignited and burned at the breather, although no fire or explosion in the crankcase resulted. On forther tests with normal dilution of four of minutes, no fire could be secured over From these tests it was concluded that the oil dilution system contributes to a fire hazard only in the case of mal-functioning of other equipment; for example, an oil dilution valve; sticking open in combination with a broken ext haust manifold might result in a fire. Since the engine breather is outside the fire wall and cowling of the ecces-sory compartment of an airplane. such a fire would not necessarily be of serious consequences.

The oil dilution system has penideveloped to meet a vital need of itheor It has been proved capable. service. Tt is possible. of meeting that need. that improvements in the presentisystem can be made as difficulties with the (Continued on Page 17) order at y-7976, A.C.

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- ACTIVITIES AT POPE FIELD, N.C.

Breaking into the columns of the Air Corps News Letter, after a long period of silence, the Correspondent from Pope Field, N.C., declares that many interesting events have transpired during that period and proceeds to touch upon these considered most notable.

these considered most notable. Concerning the air traffic situation at Fope Field, he submits figures showing that from November 1, 1938, to January 31, 1939, the enlisted personnel serviced a total of 450 transient aircraft, included among which were 327 from the Regular Army and the National Guard. (If the remaining 123 visiting ships, 195 were from the Marine Corps, 16 from the Navy and 10 from neighboring Coast Guard bases. "We know," he says, "that there are other fields that handle much more transient traffic, but we feel that this is a pretty good number of ships, and we are proud of the way in which they were handled."

At the present time the personnel consists of 95 members of the 16th Observation. Squadron and 124 members of the 2nd Balloon Squadron. However, only two flights of the 16th are at Pope Field, the third flight being at its neighboring field to the south - Fort Benning, Georgia.

The commissioned personnel at the present time includes the following heavierthan atropilots: Lieut. Colonel Vincent B. Dixon, Commanding; Captain R.R. Selway, Fet Lieuts. E.H. Rice and J.T. Mesby and 2nd Lieutenants (Air Reserve) A.L. Legan, M.W. Schoephoester, N.H. Ranck, E.L. Hormell and D. Chalmers. The members of the Balloon Squadron are Major Neal: Creighton and Captain S. B. Edwards, Two additional officers are expected to report in the next month or so; Major Charles Savage, of the Lighterthan the branch, and 1st Lieut. George F. Kenoes Heavier-than-Air. In the time of flying equipment, the 16th Observation Squadron has at the pressitions of Lighter dearly in Febtuary ons C-19, a C-8, a B-10, a BT-2BLy and a new Grumman OA-9 Amphibian due to be delivered early in Febtuary. The Balloon Squadron has a type C-3 captive balloon in constant service. Plans are now being made to have a motorized balloon of the C-6 type at Pope Field; and already the men of the balloon doutfit have practically completed the halium compression system.

The Ar Corps Station Supply has grown too big for its present set of quarters, so in the near future they will move from the one half of Hangar One now being compiled to Hangar Three, where the whole structure will be at the disposal of the activity.

Building projects have been going on in various places. On January 28th, last, the officers and men with their families were invited to a barbecue party at the new Skeet Range, Golf Driving Range and Volleyball Courts. These places of recreation will be the scene of many a happy hour in the future, and will furnish entertainment and exercise heretofore found lacking.

In conclusion, the Pope Field Correspondent wishes to announce to the rest of the Air Corps in big bold type "that we have a brand new and modernly furnished HOTEL DE GINK! We are proud of this new establishment, which has been completed and is adjacent to the hangars of Pope Field. We have accommodations for seven persons, with two adjoining showers, and a third room that functions as a recreation and reception room. Won't you come by and spent the night with us?"

PURPLE HEART DECORATION FOR SGT. SCHULTZ

Staff Sergeant Steve J. Schultz, of the 13th Attack Squadron, 3rd Wing, GHQ Air Force, Barksdale Field, La., recently received official notification from the War Department that he will be awarded the Purple Heart for wounds received in action during the Meuse-Argonne offensive, while a Private of Company E, 9th Infantry, U.S. Army. Sergeant Schultz participated in the following engagements during the World War: Toulon-Troyon; Aisne, Chateau Thierry, Aisne-Marne, Marbadie, Limey, St. Mihiel, and Meuse-Argonne. "It is of interest to note that the Order of the Purple Heart is the oldest decoration in the history of our military services," declares the Barksdale Field Correspondent. "It was originated by General George Washington in August, 1782, and first awarded to certain officers and men of the Continental Army for singularly meritorious action."

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The Oil Dilution System (From Page 16)

system develop in the service. It is believed, however, that an understanding of the functioning of the oil dilution system will assist in proper discrimination between malfunctioning of the system and other engine ailments which have frequently been attributed to the oil dilution system.

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Special Orders of the War Department, recently issued, relieves Colonel Hugh J. Knerr, Air Corps, from his present assignment and duty at Fort Sam Houston, Texas, February 17, 1939, and directs that, for the convenience of the Government, he will proceed to his home and await retirement.

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AERIAL GUNNERY BY PURSUITERS IN FLORIDA

"B" Flight of the 27th Pursuit Squadron, 1st Pursuit Group, Selfridge Field, Mich., proceeded under the command of 1st Lieut. Murray C. Woodbury, Air Corps, to Valparaiso, Florida, on January 6th, a distance of about 850 miles, on an attempted non-stop flight. The flight, however, was interrupted, due to a baggage compartment door on one of the planes becoming unfastened, and a landing was made at Louisville, Ky. At this writing, "B" Flight is engaged in an intensive gunnery program on the range at Eglin Field. Valparaiso. Fla.

writing, "D" flight is engaged in an intensive gunnery program on the range at Eglin Field, Valparaiso, Fla. A friendly rivalry in gunnery proficiency between "A" and "B" Flights was created when Major Willis B. Taylor, Air Corps, Commanding Officer of the 27th Pursuit Squadron, suggested that the highest scoring flight might be able to go cross-country to the San Francisco Exposition. "We are looking forward to see some very interesting scores as a result," declared the News Letter Correspondent. "A" Flight made preparations to leave Florida on or about February lst.

The scribe of the 94th Pursuit Squadron, Selfridge Field, writing from Eglin Field, Valparaiso, Fla., states that it was erroneously reported and published in the Air Corps News Letter of January lst that the men of that Squadron were transported to Eglin Field by truck. Seventeen came by private automobile, 77 were transported in B-18A's, under the command of Major Connell. He adds: "This was a real treat to many of us who get little air travel. Visibility was good, and we stopped at Maxwell Field for dinner, continuing on to Eglin Field in the afternoon."

The first week at Eglin Field was spent in making conditions at the camp liveable and workable. The pilots were engaged in practice firing on aerial tow targets and ground targets. During the second week, work started in earnest, with plenty of activity for all personnel. Record firing started at dawn and continued until dugk. In two weeks of activity, only one morning's work was interrupted, the weather man putting a complete stop to all operations.

activity, only one morning's work was interrupted, the weather man putting a complete stop to all operations. Enumerating as present at Valparaiso "B" Flight of the 27th Pursuit Squadron, "B" Flight of the 17th Pursuit Squadron, and Flights "A" and "C" of the 94th Pursuit Squadron, the News Letter Correspondent declared that these units should complete their course so as to be able to return to Selfridge Field about February 1st. He added that "B" Flight of the 27th completed the 30 cal. phase of the aerial gunnery course and turned in a 631 average for qualifications.

Touching upon an entirely unexpected sincident which occurred during the aerial gunnery practice, the Correspondent -18-

states that Friday, January 20th, will be a long remembered day. A fire was started, presumably by 50 cal. tracers going throuch the back stop of the bere sighting target. At first, no one took it seriously, having had little previous experience with brush fires. Soon, however, the fire spread, and a general alarm was turned in. The dry grass, aided by a brisk wind, carried the fire through a wooded area, and at one time the blaze was headed for some ammunitition thacks. All men and officers pitched in with shovels, and it was only by quick work, along with a change in the wind, which prevented the fire from reaching the quarters of the personnel. Personnel of the CCC arrived on the scene with a truck and spread chemicals. After about two hours' work, the fire was under control. Many witnessed the conflagration and cheered and applauded the fire fighting efforts.

HEAVY AIR TRAFFIC AT BARKSDALE FIELD

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The Barksdale Field Correspondent states that so many stations have had their little brag about the volume of traffic handled that it seems about time that Barksdale should join in the chorus. He adds that without any intention of committing plagiarism and with no fear of misusing the expression, Barksdale Field has become a veritable "Air cross-roads of the United States."

During the past calendar year there were serviced at Barksdale Field 3681 airplanes, 393 of these being Navy planes and 3288 Army planes. Every station in the Air Corps was represented, and practically every National Guard Air Corps unit.

Guard Air Corps unit. Of transient enlisted men of various classes who remained overnight, there were over 1200. These were taken care of in practically every case by the 79th Pursuit Squadron, which was designated as the organization to furnish such accommodations.

"So it can be seen," the Correspondent states in conclusion, "that the handling of both transient aircraft and transient soldiers has become a large and serious proposition for this station."

The Selfridge Field Correspondent states that the gunnery training being conducted at Eglin Field, Fla., by "B" Flight of the 27th Squadron has been greatly hampered by inclement weather and rough air. "A" Flight will proceed to Eglin Field on the return of "B" Flight, Lieut. H.E. Kofahl seems to be the most accurate gunner of the "B" Flight, he having obtained the highest score so far.

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DEMONSTRATION OF LIFE RAFTS

The 18th Pursuit Group, Wheeler Field, T.H., held a demonstration of life rafts and life saving equipment, just off the new Hickam Field pier, on Saturday, January 14, 1939. All the officers of the 18th Pursuit Group motored down to Hickam Field to witness the exercise.

Taking part in the demonstration were Captain George R. Acheson, 1st Lieut. R.W. Puryear, 2nd Lieuts. C.D. Vincent, R.D. Denson, J.C. Tuell and W.W. Sparks, Jr. It was estimated that approximately fifty Air Corps officers witnessed the demonstration, including General Walter H. Frank, commanding the 18th Wing, and Lieut, Colonel William E. Lynd, commanding the 18th Pursuit Group.

ing the 18th Pursuit Group. Shach tactical squadron of the 18th Burgait Group demonstrated its method of rescuing pilots who had been forced down at sea, or who had made a parachute jump over water. One pilot from each squadron was rowed out from the pier in turn and dived into the water, while his squadron officer flew by and dropped him a life raft. Several methods were used. The 6th Pursuit Squadron used a one-

The 5th Pursuit Squadron used a oneman pheimatic rubber raft folded into a metal case, designed by 1st Lieut. L.I. Davis, that fastened to the bomb rack on the 1.25 airplane. There was just enough air in the boat to keep it afloat, and the pilot, Lieut. Puryear, flew low over Lieut. Tuell in the water and released the boat by use of the bomb release handle. Lieut. Tuell then swam to the boat, inflated it with the attached CC2 bottle and climbed in.

Lease handle. Lieut. Tuell then swam to the boat, inflated it with the attached CC2 bottle and climbed in. The same size boat was used by Lieut. Vincent, of the 19th Pursuit Squadron, in dropping a raft to Lieut. Sparks. However, the system designed in the 19th Squadron by Corporal Shultz provides for the filling of the raft by the CO2 bottle upon release of the boat from the P-26 bomb mack. Here a great lesson was learned. In this type of equipment the raft must be dropped directly up wind of the man in the water, as the inflated boat is very easily drifted by the wind, and it was only after a very sustained and tiring sprint, amid none too helpful cheers and jeers from the pier, that Lieut. Sparks was able to overtake his fast drifting raft. Captain Acheson. with Staff Sergeant

Last drifting raft. Captain Acheson, with Staff Sergeant Brechtel as passenger, in an A-12, threw from the rear seat a large five-man rubber raft. At this point the spectators were afforded a bit of amusement, and two excellent lessons were very forcefully driven home. The raft was dumped out of the Sergeant as the plane passed over the pilot in the water, and naturally came to rest some good distance beyond Lieut. Denson, who finally reached the raft, as it was not inflated. However, due to sheer exhaustion and in an effort to inflate the raft hurriedly

and get aboard, Lieut. Denson did not secure the boat to his body in some manner, and the minute the large raft was inflated it went sailing away with the breeze. The row-boat standing by returned the raft and it was brought to the fatigued pilot who, by now, was depending on his own life vest for support.

The demonstration was both interesting and beneficial to the pilots of the 18th Pursuit Group, and they will now have more confidence in the lifesaving equipment should the occasion ever arise to necessitate the use of the rafts.

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Veteran Noncoms. Retire (From Page 7).

Sergeant Routt started his military career in December, 1903, with the 15th Infantry, transferring to the Air Corps and the 68th Service Squadron in February, 1924. His Air Corps service includes duty with the 68th Service, the 48th School, the 72nd Bombardment Squadrons and, finally, the 46th School Squadron at Randolph Field, where he has been stationed since February, 1933. A testimonial dinner was given by the 46th Squadron in honor of the veteran noncommissioned officer, and on February 4th, a squadron review was held, with Sergeant Routt taking the review along with the Squadron Commander, Major Stanton T. Smith.

LIEUT. DENSFORD ONE OF NATION'S BEST PISTOL SHOTS.

According to press dispatches, 1st Lieut. Charles F. Densford, Air Corps, on duty at Kelly Field, Texas, with the Observation Section, has been named to the select list of the nation's best pistol shots. The National Rifle Association, governing body of the sport of target shooting, which annually makes the selection of the year's outstanding handgun experts, places Lieut. Densford as seventh of the U.S. ...38 caliber marksmen, with a season's average of 280.45. In building up his high average, he fired in 23 events at four registered tournaments.

In top position of U.S. shooters is Alfred W. Hemming, Detroit police officer, whose performance with all three calibers of handguns brought him the All-Around Championship rating. Hemming holds many world records, and is easily the outstanding pistol shot of the country today. Falling below Hemming on the All-Around listing is Emmett Jones, member of the Los Angeles police force, with Charles Askins, handgun wizard of El Paso, Texas, third. To the Los Angeles group went the lion's share of the honors, as they placed -TB- seven of their men on the roll of honor, accounting for nine of the thirty places making up to top ten in each division. The annual selection is compiled by the Natienal Rifle Association on a basis of averaged scored fire in all registered pistol competition during a

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CLASSES ON PRIMARY AND BASIC STAGES AT RANDOLPH FIELD COMPLETE COURSES.

year.

Class 39-B, Randolph Field's twentysecond class on the Basic Stage, completed training and will transfer to Kelly Field, Texas, for the final four months' of instruction at the Advanced Flying School, about February 25th, it has been announced. Entering Randolph Field last July with almost 350 Flying Cadets and Student Officers, this is the second class in succession to complete the Basic Stage without a serious accident or fatality. Due to the unusually fine weather that has prevailed since the start of both the Basic Class and the Primary Class (39-C), the schedule of flying instruction has been caught up with and passed.

The present Basic class is composed of four student officers, four foreign students, and 158 Flying Cadets, a total of 166 student pilots.

Meanwhile, training on the Primary Stage will end on February 14th - also ahead of schedule. Of the 336 student officers and Flying Cadets who started training on the Primary Stage last October, approximately 227 of them have successfully completed the first four months' work and will be transferred to the Basic Stage. This number, comprising more than 67% of those who actually started training, constitutes one of the highest records attained at Randolph Field in the matter of students successfully completing the Primary Stage. This class also completed its training without any accident to mar its record. More than 18,000 hours will have been flown by the Primary Class when the course ends, and more than 20,000 hours will have been flown on the Basic Stage, all for a grand total of more than 38,000 hours, with only a few damaged wing tips and an occasional bent propeller blade on the work sheet of the Aero Repair.

Training by the 5th Bombardment Group (Continued from Page 13)

trade wind coming over the Koolaus at right angles to the course. Up and down drafts seem to alternate and provide no end of trouble for the bombing teams. However, the experience gained under these conditions more than compensates for any possible adverse effect on the bombing scores.

LANGLEY FIELD AIRMEN'S READINESS TO AID "CAVALIER" SURVIVORS.

Shortly after midnight of January 22nd, Major E.E. Glenn, Executive Officer of the Second Wing at Langley Field, announced he had received information from the Pan-American Airways that several survivors of the stricken flying boat "Cavalier" had been picked up by the tanker ESSO BAYTOWN. He said that, due to the rescue, a proposed flight of seven B-17 "Flying Fortresses" scheduled to have taken off at 6:30 in the morning was cancelled.

morning was cancelled. The mission was to have been led by Major Harold H. George. Each plane was to have carried nine men, and life rafts were to be dropped in the event any survivors were located. The flight had been fully organized and was ready to take off at a moment's notice, if needed.

The flight preparations included arrangements for two-way communication with the Langley Airdrome and the Coast Guard, whereby the latter agency might be notified so that nearby ships could proceed to the rescue. The life rafts were provided, it was explained, because of information received to the effect that the passengers of the "Cavalier" were provided only with life belts.

Flying a B-17, Major Vincent J. Meloy had taken off from the airdrome at five o'clock the previous day to go to the rescue of the "Cavalier" survivors. He took off after notification was given by the airline company that the air liner had been forced down about 180 miles off the coast. When Major Meloy was about 150 miles out on the mission of mercy, another communication from the airline company gave the position of the "Cavalier" about 300 miles due east of Langley Field. It was then that Major Meloy was ordered to return to the airdrome, because of bad weather conditions. He was about 20 to 30 miles short of his objective. He returned to Langley Field at 8:30 p.m.

THE LANGLEY FIELD AMATEUR RADIO STATION

Supplementing the article on the above subject on page 15 of this issue, it may be stated that at present plans are bein made for the construction of portable equipment for use in an emergency, and which could be moved to the vicinity of a disaster on short notice and set up for immediate use.

For the past ten years, Private Stull has been operating amateur radio stations, first at Williamsport, Pa., and then at Honolulu, Hawaii; Washington, D.C., and finally at Langley Field, Va. .



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VOL. XXII AIR	CORPS NEWS	LETTER	<u>NO. 5.</u>
Information Division Air Corps	March 1, 1939		Building ton, D.C.

The chief purpose of this publication is to distribute information on aero-nautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation.

MAJOR HAYNES RETURNS FROM MISSION OF MERCY TO CHILE By the Langley Field Correspondent

Major C.V. Haynes, Air Corps, who was welcomed home to Langley Field, Va., on February 14th, after transporting medi-cal supplies to Chilean earthquake sufferers, flew the modern super-bomber of the General Headquarters Air Force to Washington where, later in the day, he was presented the Distinguished Flying Cross for proficiency in leading the

Mercy mission. All available ground troops, as well as 54 airplanes, were in formation on as 54 airplanes, were in formation on the concrete ramp at Langley Field as the huge craft put in its appearance shortly before 10:30 a.m. The ceremo-nies were not scheduled until 11:00 a.m., and Major Haynes, with his crew of four officers and six enlisted men, circled the airplane around the Peninsula until the airplane around the Peninsula until the time for him to descend,

Amidst the plaudits of fellow officers and the several hundred spectators, he made a perfect landing and taxied up to the big plane's usual resting place on the ramp, whereupon Major General Frank M. Andrews, Commanding General of the GHQ Air Force, and other high officials, went out to greet the returning airmen.

Major Haynes was the first to alight. He was greeted informally by General

Andrews, who joked: "Hello, C.V.; where've you been?" The husky Commanding Officer of the 49th Bombardment Squadron smiled. "Just been on a little trip, Sir," he

"You did a grand job," General Andrews told the airmen, who were also greeted by Brigadier General Arnold N. Krogstad, Commanding Officer of the Second Wing, and Lieut. Colonel Robert Olds, Commanding Officer of the Second Bombardment Group,

Shortly afterwards, General Andrews extended Major Haynes and the other flyers a formal welcome from the 8,400-mile trip, which was begun from the Peninsula airdrome. The B-15 arrived at Langley

Field from Miami, Fla. Mr. W.D. Millner, Field Director at Langley Field for the American Red Cross, read a message from Mr. Norman Davis, Chairman of this organization, who prais-

ed the mercy flight, stating: "The brilliant execution of your mis-sion of mercy in transporting by air Red Cross medical and surgical supplies to

aid the thousands of injured in the Chilean earthquake has thrilled and inspired the people of our country. Al-though in line of duty, the task was performed so generously that it has won the admiration of everyone and will al-ways remain a splendid chapter in the history of the Red Cross. The Red Cross is most grateful. Would you be good enough to extend our thanks to members of your crew."

The medical supplies, consisting mostly of bandages, serum, ether mostly of bandages, serum, ether chleroform and surgical appliances, were taken to Santiago, Chile, at the request of President Roosevelt, who had been asked by Red Cross Headquarters to authorize the flight. The plane left Langley Field on February 4th and arriv-

ed in Santiago several days later. Members of the flight stated that the weather conditions on this long journey were generally good, although they ran into several periods of rough and rainy weather. They stated they saw little evidence of the earthquake in Santiago, which is 200 miles away from the most severely stricken area. Langley Field was in consast with the airplane by wireless during most of the flight. The presentation of the Distinguished

The presentation of the Distinguished Flying Cross to Major Haynes was to have been made upon the arrival of the have been made upon the arrival of the flyers at Langley Field, but the plans were changed when the War Department announced that the award would be made by the Secretary of War, the Honorable Harry H. Woodring, in Washington. In welcoming the returning flyers,

General Andrews said:

"We are glad, indeed, to have you back home after your successful flight to aid the Chilean barthquake victims, and I had hoped to have the pleasure of presenting you with the Distinguished Flying Cross..... I extend my sincere congratulations and hope in the future you will have many more opportunities of being rewarded for meritorious flights."

Among the civilians who lined the edge of the field were Major Haynes' wife; his parents, Mr. and Mrs. C.H. Haynes, of Mount Airy, N.C.; and his sister, Miss Rachel Haynes, of Beaufort, N.C.

Fifty-two airplanes went aloft in the V-7988, A.C.

aerial review which followed the welcoming ceremonies. They taxied along the concrete runway in single file, then seared into the air and gathered in mass formations. In the review were three B-17's and six B-18's from the Second

Bombardment Group; six B-18's from the 21st Reconnaissance Squadron : 24 2-364 Pursuit airplanes from the Eighth Pueses suit Group, and nine B-18 airplanes of from Mitchel Field, New York. 77007.0 J.L s Éras à la

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XB-15 FLIGHT TO CHILE - LINKING OF THE AMERICAS By Captain William D. Old, Air Corps Ge-Pilot on the Flight

About midnight on January 24, 1939, a section of Chile, extending from Santiago south for about 400 miles, was rocked by a terrific earthquake. The center of a terrific earthquake. The center of this shock occurred in the Concepcion-Talca-Chillan area. Chillan, a thriving city of some 40,000 population, was com-pletely demolished, and some 12,000 of its inhabitants are dead, with many more injured. The quake actually lasted a little over two minutes, but for hours afterward weakened buildings continued to fall Casualties for the demaged to fall. Casualties for the damaged area were estimated to be 25,000 dead and 40,000 injured. The injured requir-ed great quantities of medical supplies. All available in the Argentine were rush-ed by air and rail to the stricken area. Two United States Army bi-motored Bombers from France Field flew south with a Red Cross representative and all of the serums and medical supplies that could be gathered up in the Panama Canal Zone. Then, on February 1, 1939, there came an urgent call from the Red Cross in Santi-ago to the Red Cross in Washington for certain additional medical supplies. The only way to transport these supplies to Santiago, a distance of some 5,000 miles, in time to be of value, would be by air, so the Red Cross requested the President to send a Flying Fortress. This request was immediately approved. This request

Orders for the trip reached the head-quarters of the 2nd Bombardment Group at Langley Field, Va., late in the after-noon of February 1st. Things began to hum. Colonel Robert Olds, the Command-ing Officer, designated Major Caleb V. Haynes to accomplish the mission. Major Haynes, the Squadron Commander, selected a crew as follows:

Co-pilot, Captain William D. Old; Navigator, Captain John A. Samford; Engineer-Pilot, 1st Lieut. Richard Freeman

S, Freeman; Weather Officer, 1st Lieut. Torgils G. Wold;

Chief Aerial Engineer, Technical Ser-geant Adolph Cattarius; Assistant Aerial Engineers, Staff Ser-

ceants William J. Heldt, Harry L. Hines,

David L. Spicer; Radio Operators, Corporal, A.M. 1st Class, James E. Sands and Private 1st

Class, A.M. 1st Class, Russell E.Junior. As it was not definitely known what

the weight or the cubic volume of the the weight or the cubic volume of the supplies would be, three planes were made ready, two B-17's and the XB-15. The XB-15 is the largest land plane in the world today. It has a wing spread of 150 fe, and is powered by four Pratte and Whitney double row radial engines that develop 1,000 horsepower each. It has

four Pullman bunks and a galley where

hot food can be prepared. Colonel Olds' plan was to loan the 21 XB-15 and, if all supplies could not be placed aboard this plane, any remaining were to be loaded into a B-17. Work was immediately begun to groom the planes for the flight - twenty-hour checks were made; one bomb-bay tank was installed in each of the B-17's; plat-forms for the cargo were built in the forms for the cargo were built in the bomb-bays; 72-hour kits and emergency overwater kits were loaded, and the planes serviced with gas and oil. The navigators assembled the necessary maps, charts, and equipment for the flight. All was in readiness by 2:00 o'clock on the morning of February 2nd. At about 3:00 p.m., February 3rd, the supplies arrived - 69 cartons contain-ing cotton, bandages, surgical gloves.

supplies arrived - os cartons contain-ing cotton, bandages, surgical gloves, ether chloroform, ray films, hypoder-mics, and two buckets of Plaster of Paris, and needles. After checking, the loading began. Captain Wittkor was de-signated to fly the B-17 that was de-take what could not be put aboard the B-15. His disappointed expression was unforgettable as he watched the last carton hoisted in the nose of the """ XB-15, for he was anxious to make "the trip.

At 6:35 A.M., E.S.T., Saturday, Feb-ruary 4, 1939, the XB-15 started rolling down the runway into the wind as the throttles were opened. After a normal run she lifted into the air and was soon headed for Panama, via Miami, a distance of 1945 miles,

a distance of 1945 miles, Climbing, we were soon over a lower cloud layer that obscured the ground, and at 5,000 feet the Major "levelsd off." About an hour later, the clouds began to dissipate and we got a check on our drift as we crossed the coast at Bogue Inlet, just west of Cape Lookout. About 8:00 a.m., the radio range sta-tion at Charleston, South Carolinas -2-V-7988, DArQata SW

gave me the winds aloft, and we discovered that at our 5,000-feet level we had a head wind of 52 miles per hour, while at 2,000 feet it was more of a cross wind, with a velocity of only 20 miles per hour, so down we went to take advantage of the lesser wind. Palm Beach, Florida, was identified as we passed to the east of it, well to sea. As our course and the east coast of Florida were converging, the coast line became more distinct, and at 11:45 a.m., we were five miles east of Miami Beach, Fla. From that point, Captain Samford set a course, straight for Panama, which took us south almost along the 80th meridian. The maters between Miami and Cuba were a beautiful sight that day - glassy,

The maters between Miami and Cuba were a beautiful sight that day - glassy, calm and so clear that the sandy bottom could be seen beneath us as far as the Nicholas Channel, just north of Cuba. Cuba was sighted at 12:48 p.m., and before long we were crossing the low marshy coast. The interior of this Island along our course was a checker beard, of sugar cane fields, haciendas, sugar cantrals and palm trees.

marshy coast. The interior of this Island along our course was a checker beard of sugar cane fields, haciendas, sugar centrals and palm trees. We soon passed the southern shores of Cuba a little east of Cienfuegos and headed south across the Caribbean Sea. For the next 150 miles the sky was clear and off the sea enough white caps were visible to make the reading of drift through the drift meter a simple matter. The breaking of the white caps told us that we had a surface wind from the east. We passed to the east of Little Cayman Island, and from there until we picked up the Trance Field radio beacon, mavigation was entirely dead reckoning.

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We were in and out of clouds and rain for the next 500 miles. Radio reports indicated that the rain at France Field had passed, but that the ceiling was 2,000 feet, so we dropped to 1,000 feet. At about 6:00 p.m., Panagra, a branch of the Pan-American Air Lines, gave us two radio bearings indicating that we were to the west of our course, and shortly thereafter we picked up the France Field radio beacon, which also indicated we were to the west, so we brought the needle back to vertical by swinging the plane a few degrees to the left, and at 5:45 p.m., we gaw a flash of light at the entrance to the Fanama Canal. It was a most welcome sight. At 6:55 p.m., we landed, and soon thereafter servicing and routine maintenance began.

sonn thereafter servicing and routine maintenance began. We were up at 3:00 e'clock the next morning, and after getting the latest weather from Panagra, the big plane, loaded with 3,000 gallons of gasoline, started its run for the "take-off" at ";00 game Lima, Peru, 1560 miles distant, was the destination. All of the field was used. After climbing to the north until we had 1,000 feet altitude, we started a slow turn to pick up our course to the south. Due to the high mountains along the West Coast of South America, and the perpetual bad weather along the coast of Ecuador, caused by the meeting of the Humboldt current and the Dos Ninos, we did not set a course for Lima but headed for Paita Point, near the most western part of South America.

We climbed to 5,000 feet, and in the moonlight watched the dark jungle beneath flit by. Soon the Isthmus was crossed, and we were over water once more. About 30 minutes later we crossed Pinta Mala, our last pilotage check for some 600 miles. Shortly after leaving Punta Mala, the navigator got out his octant and made his first celestial fix, using Alpha Crux in the Southern Cross, which was straight ahead, and the moon low in the heaven to the west. Shortly after daylight we flew over lower cloud bank and before long we could see indications ahead of the bad weather that we were expecting. However, it was no more turbulent than that which we had encountered the afternoon before coming in to Panama just clouds and moderately heavy rains. At 7:31 a.m., our DR position showed that we were crossing the equator. Captain Old, the only member of the crew who had not crossed before, was duly initiated by Lieut. Wold, who took a rag that was used to mop up the rain that leaked through the front windows of the cockpit and wrung it out over the novice's head.

Just as a safety precaution, to insure that we were not drifting toward the land and the high mountains each time we "went on instruments," we turned 10 deg. to the west and then, when we broke out in the clear, we headed for the point. Five times we turned out and back. Then land was sighted through a break. Our D R position showed that it should be St. Elena Point, and a better view verified this. After crossing the Gulf of Guayaquil we came out into the clear again, and from there to Lima we practically followed the coast under clear skies. However, the massive Andes to the east were practically shrouded in clouds. Some portions appeared to be a section of a huge layer cake - a layer of clouds, a layer of mountains and a layer of clouds.

There is a surprisingly large strip of arid desert land along the Peruvian Coast, but it is equally surprising how fertile and productive are the areas in this desert where water from the mountain streams make irrigation possible. We passed over numerous villages, some along the coast, some back a few miles from the Pacific. From our altitude, three things impressed one about these villages; first, the apparent sturdy type of construction; the square with its walks connecting -3- V-7988, A.C. the orposite corners, and the inevitable

cemetery near the towns. At 12:50 p.m., we were on the excel-lent airport at Lima, Peru, and by the time the chocks were under the wheels the crew from the Panagra Air Lines was ready to service and assist in any necessary maintenance. On the Limatambo Airport, Panagra maintains a very modern re-pair shop. After a leisure and very depair shop. After a leigure and volue, lightful luncheon at the Country Club, we returned to the Airport to check on the servicing. Our schedule called for shout 8:00 a.m., the servicing. Our schedule called for an arrival in Santiago about 8:00 a.m., the following morning, so Major Haynes set 10:00 p.m. as the time of take-off. From the American Embassy, where we had dinner with Ambassador and Mrs. L.A. Steinhardt, we again returned to the Airport and made ready for the take-off.

Due to the mountains around Lima, must be careful on a night take-off. After we cleared the ground we started our climb and headed out to sea for 15 miles, then set a course direct to Santiago, 1545 miles to the southeast. This course took us about 300 miles to sea. At 6,000 feet, we were over a low-er cloud bank, with the moon and the bright stars of the southern skies above. The extremely smooth air greatly facili-tated the work of the navigator in mak-ing his "shots" to determine a fix, In aerial celestial navigation a bubble octant is used, and due to the acceleration of the bubble a series of observations must be made, averaging the time of the observation, and the altitude of the body. The smoother the air the fewer observations are required. Celestial fixes were obtained every two hours, but position reports were transmitted hourly to Panagra, where they were relayed to France Field, then on to Langley Field.

At daybreak, we were still over a lower cloud bank but, as more light from the sun began to appear in the east, we could see the outline of the Andes about 175 miles to the east. At first it was very difficult to determine whether they were low mountains fairly near, or large ones Very distant. Our slow rate of closing on them proved the latter. It was a beautiful sight to watch the sunrise over the Andes - the irregular silhouette of the mountains stood out like the teeth of a saw, and the clouds that obscured their base gave them an appearance of being set in snow,

About 15 miles from the coast the lower layer of clouds ended, leaving the coast clear and distinct. We got out our detailed map of the west coast of South America and located our position definitely. It was found to be about eight miles to the left of the Lengua de Vaca, the point for which we were head-ed. From there to Santiago the problem of navigation was a simple one of pilotage.

We arrived over the beautiful and very modern city of Santiago at 7:30 a.m.,

Monday, February 6, 1939, and after two circles around its edges, we leaded at Los Cerrilos, a very modern airporting used by Panagra. There to greetousht were Mr. Wesley Frost, from the Amer-ican Embassy; Colonel Ralph HVAWeoter, Air Corps, the American Military Aten tache to Chile; Commodore Castro, Chief of the Chilean Air Force; Commander Herreros; other officers of the Chilean Air Force; officers and men of the flight from Panama, and representatives of the Red Cross. Shortly after land-ing, the unloading of the supplies be-gan, much to the interest of the small

gan, much to the interest of the small crowd that gathered around the plane. After checking the supplies, they were loaded on trucks to be taken to hed Cross Headquarters in Santiago, Trout It was learned that Lieuts, if and Lee, from France Field, Panama tanat Zone, were taking off in a B-18 at 10:00 a.m., on a trip to Chillar, some badly injured earthquake victims back to Santiago, where much better heavital to Santiago, where much better hospital facilities were available, so Captain facilities were available a look at

Old climbed aboard to nave a roun av-the destruction to the south. ¹⁰(Santiago is located about 60 miles inland, at the north end of a fortile valley that lies between the Andres and a lower range along the coast. To the south this valley widens out, and is almost completely cultivated. Many prosperous appearing hacienday, with their irrigated fields, were in evi-dence. The irrigation canals, fed from numerous streams that rise high in the snow-covered Andes, could be easily traced, as they were outlined with single rows of tall Eucalyptic, Pine and Cottonwood trees.

The first evidence, from the air, of the damage caused by the ear physical it, "terromotto," as the Chileans Call it, was seen at Parral, and from there southward each village was damaged to perform the physical increasing extent. Dea progressively increasing extent. De-struction was not confined to the vil-lages alone, as many isolated tarns" and farm houses were down. At Chillen and farm houses were down. At Chillan we circled low over the pile of debris that a short time before had been a prosperous city of some 40,000 souls Newspaper reports concerning the damage were in no way exaggerated. Noting how completely the demolished condition in which the entire city appeared, one

which the entire city expedition wondered how so many escaped. The The type of building construction used in Chile was probably responsible for the numerous casualties. The houses were all very sturdily built of large adobe brick, with roofs of beavy tile, supported by heavy timbers, then the walls collapsed, down came the heavy roofs before the sleeping, inhabitants realized what was happening on the 6th of February, salvage work was still going on, and new victims were constantly being found. Heyne**s** den V-7988, A.C.

Ja Neplanded on the airport at Chillan to await the arrival of the ambulances with the patients. Quite a few of the natives spake fairly good English, and during the conversation it was learned that they had acquired their knowledge of the lang-uage through American talking pictures, which are quite popular in South America

With eight patients and two doctors aboard, we headed up the valley towards Santiago, and upon our arrival the patients were immediately removed and the plane completely disinfected. In Santiago we had an interesting stay.

Entertainments kept us busy. We were intertainments kept us busy. We were guests of Ambassador and Mrs. Norman Armour, Mr. and Mrs. Wesley Frost, Col. and Mrs. Ralph Wooten, The "Club Mallitare," and the Officers' Club at El Bosque, the Santiago base of the Chilean Air Force. It was at the dinner at the Club Militare that Major Haynes 3 Wes presented with the Chilean "Commender of the Urder of Merit," and Captains Wolfe and Tate, from France Field, were presented with "Officer of the Order."

Major Haynes planned to make the re-Major names planned to make the re-turn flight in easy stages, with stops at Lina and Panama, but word was receiv-ed that suitable gas was not available at Limat thus necessitating a change in plans. It was then decided to load 4,000 gallons of gasoline aboard and head for Panama, with Talara, Peru, about '960 miles south of Panama. as an about 960 miles south of Panama, as an Alternate airport, and where gasoline was available

Thus day, February 9, 1939, and headed southeast to follow down a valley to the coast in order to avoid the high mountains that were on a direct course. We dark and, using that city as a point of departure, we again headed for Paita Point. The return flight was unevent-ful, except that about midnight the en-stings; began to ice up. However, this was quickly remedied by application of certure for heat. At about 7:00 a.m., our Dag mention showed that we should our D.R. pesition showed that we should be nearing land, and shortly after pass-ing through a light rain area we saw the coast to the east. We turned in for a pilotage fix and identified Paita Point, and from there set a course for Panama,

as we had ample gasoline to make it. We landed at France Field at 2:05 p.m., We landed at France Field at 2:05 p.m., Friday, Tebruary 10th, with 550 gallons of gas aboard, after a flight of 19 nours and 55 minutes, covering about 3200 miles. The flight from Santiago to France Field is the longest one that has been made by the B-15. We had received orders to remain in Panama until Monday, February 13th, thenproceed to Miami and the first there, and depart in time to strive at Langley Field by 11:00 a.m. on Tuesday, February 14, 1939. Dur-ing our stopover in the Canal Zone, Major Haynes demonstrated his ability as a Haynes demonstrated his ability as a Section .

tarpen fisherman. The fish originally weighed 35 pounds, but since that time it has grown and is still growing. We cleared Panama at 9:15 a.m. on Monday, and when about 100 miles out we passed directly over the U.S. Army Transport REPUBLIC, bound for the Canal Zone. The return trip across the Caribbean was made in planet Caribbean was made in almost perfect weather. At 4:20 p.m., we were on the Municipal Airport at Miami, where Major Andrews had made the necessary arrange-

ments for servicing. At 5:40 a.m., Tuesday, February 14th, we were off on the last leg of our we were oil on the last leg of our trip, and at daylight we were well up the Florida coast. At 10:35 a.m., we were over Langley Field. Orders were received by radio to land at 11:00 a.m., and at that time we were on the ground, ending the longest flight of that nature on record.

General Andrews, General Krogstad, Colonel Olds, and other officers of the GHQ Air Force were on hand to greet the flight. After an address by General

Andrews, a Wing review was flown. At 12:45 p.m., the crew climbed aboard the B-15 for a trip to Washing-ton to visit the Office of the Chief of the Air Corps, and from there to pro-ceed to the Office of the Secretary of War, where Secretary Woodring presented Major Haynes with the Distinguished

Flying Cross. It is impossible to estimate the extent of the good will which was cre-ated by this flight. In Santiago, people stopped members of the flight on the streets and expressed their appreciation for the assistance sent by the United States. They were amazed at the distance traveled in such short time and realized how quickly assistance could be obtained from this country in time of need. It is efforts of this nature which greatly enhance the soli-darity of the Americas. ---000-

ARCTIC WEATHER OVER SHREVEPORT, LA.

While engaged in an ordered flight to service ceiling on February 6th, a flight of six P-36A airplanes, under the command of Captain M.R. Nelson, Air Corps, reached an altitude so high above the earth that the temperature of the outside air registered 40 degrees below zero, Centigrade. Strangely enough, this temperature, when convert-ed to Fahrenheit, is 40 degrees below zero, and is the only temperature at which both Centigrade and Fahrenheit

are the same. "It is believed," says the Barksdale Field Correspondent, "that the altitude attained (33,800 feet) is the highest point from which human eyes have ever looked down upon Shreveport and its vicinity, Points over 100 miles away vicinity, Points over (Continued on Page 7) V-7988

V-7988. A.C.

As a result of intensive study of the planes requiring a pilot, co-pilot, navflying qualifications required in handling modern airplanes in order to provide for increased safety and efficiency of the Air Corps, the Honorable Harry H. Woodring, the Secretary of War, announced today that all Air Corps flying officers will be reclassified into the following groups: Command Pilot, Senior Pilot, Combat Observer, and Technical Observer.

In the earlier days of military heavier-than-air aviation, the single-seater plane, or the biplace plane providing for a pilot and an observer, led to the ratings of military airplane pilot, airplane pilot and airplane observer.

In recent years the trend toward the larger crews required in bombing airplanes has indicated the desirability of having different ratings which would be more representative of modern development. Furthermore, these new ratings would take cognizance of changing physical and professional conditions so that officers would be able to fly only those types of planes for which they are professionally qualified and in capacities only as rated. The new regulations also provide for a changing of classification in which an officer may be placed as his development during his service may warrant.

- The new ratings are as follows: Command Pilot All Air Corps officers with 20 years' service in the Air Corps and 2,000 hours' pilot experi-ence or with 15 years' experience in the Air Corps and 3,000 hours' pilot experience.
- Senior Pilot All Air Corps officers with 10 years' service in the Air Corps and 1,800 hours' pilot experience.
- Pilot All graduates of the Air Corps Flying School.
- Combat Observer All graduates of the Combat Observers' Course at the Air Corps Flying School.
- Technical Observer Those Air Corps officers who have not received a higher rating, or who will fly under this category in temporary circumstances when their physical or professional condition may not warrant their flying under a higher rating at a particular time.

All pilots to be further subdivided into limited and unlimited groups. The former are those whose piloting must be limited in some way, differing with the individual, and depending upon professional and physical fitness.

Command Pilot would be senior member of a combat crew. In larger type

gator, bomber, and machine-gunner, the distinct need for an experienced directing head, not necessarily at the converse trols, but on whose decision depends the successful completion of the combat mission and the safety of plane and crew, has been indicated. 10101

Senior Pilot corresponds to pilot now rated as Military Airplane Pilot, and corresponds to civil airlines First 1979-19 Pilot.

Pilot - Corresponds to present sire . d to da plane pilot rating.

Combat Observer - Takes over observation work, defends the airplane increar hemisphere as a machine-gunner and does command observation or air observation(of artillery fire. . 0aQ **,** 00€

Technical Observer - An officer in 1 this class maintains technical proficat iency but cannot fly in other classes unless physical and professional; conditions warrant a higher rating. Williams ---000----

ARMY AIRMEN IN HAWAII COMPLETE COURSE IN CHEMICAL WARFARE

January 30, 1939, marked the completion of one of the most important phases of the January 3-June 30,1939, schedule for the ground training of junior offi-cers, when 60 officers and noncommissioned officers of the 18th Pursuit Group, Wheeler Field, T.H., received from Lieut. Col. Wm. E. Lynd, 18th Pursuit Group Commander, newly engraved certifi-cates attesting to their proficiency in Chemical Warfare, Capt. S.E. Whitesides, Chemical Warfare Service, was the instructor who so ably conducted the 30 School.

Those officers and noncommissioned of-

- ficers graduating were: 1st Lt. Baxter; Tech.Sgt. Cayhue, and Sgt. Booth, Headquarters & Headquarters Squadron;
- 2d Lts. Holdiman, Holloway, Cain, Kluever, Quinn, Flack, Wintermute and Tuell; Tech.Sgt. Asherowsky; Staff Sgts. Bailey and Postvit; Sgt. Wells, and Corporals Hess, Walsh and Witko, 6th Pursuit Squadron;
- lst Lt. Kaye; 2d Lts. Robbins, Hanmond, Posey, Pinkston, Salzarulo, Starkey, Sparks and Roberts; Mr.Sgt. Duprey, Staff
- Tech.Sgts. Downing and Van Matre, Sta Agts.Johnson, E.R., Johnson, K.L., O'Neill and Villiquette, 19th Pursuit Squadron.
- 2d Its. Eckman, Barden, Durham, Danson, Cole, Hubbard, Robinson and Stuart; Mr.Sgt. Weber; Staff Sgts. Brechtel Doughty, Duggar and Smith, T.R., and V-7988, A.C.

MODERN SCHOOL FOR CHILDREN AT LANGLEY FIELD By the News Letter Correspondent

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-J The construction of the children's school at Langley Field, Virginia, which will be one of the most modern and well-equipped educational institutions in the Tidewater area, is about 65 percent complete and the builder's completion date is June 24th, according to a recent statement of Lieut. Clarence Renshaw, Constructing Quarter-master at Fort Monroe, Va., and the Air Station of the Peninsular area.

Located on Dodd Boulevard and approximately midway between Thompson and Bowen: Streets, the school is being erected by E. & E.J. Pfotzer of Philadelphis, at a contract price of \$67,000. The sum of \$75,000 was al-lotted for the school, and the remain-ing funds will be expended by the Constructing Quartermaster for the installation of the necessary outside facilities, such as roads, walks, landscaping, etc., and the purchase of school equipment not required to be installed under the building contract.

Erected over a concrete foundation and floor with brick walls, slate roof and tile partitions, and being air-con-ditioned and heated, the school will be modern and fireproof in every detail. With its architecture resembling the style of early colonial days, the building, when completed, will present the same general exterior finish as the post chapel, which is located directly across Dodd Boulevard. The rear of the school building faces the station hospital.

The walls of the structure are roughsurfaced and constructed of variegated brick with limestone trim. It is dem signed as an "H" and has an overall measurement of 167 feet by 85 feet.

The main part of the building, or enter wing, is 107 feet by 30 feet, and consists of an entrance hall and _______ and girls' rest-rooms, heater room, book room and one classroom with a seating capacity of 25. Also included in the main part is an assembly room, or auditorium, which will seat 128 persons. At the east end of the auditorium is an elevated stage equipped with a screen and drop curtain extending across the full idth of the room.

Plans call for a projection room at the west end of the book room, which will be equipped with motion picture . apparatus for the projection of 35 mm. film (full-sized or normal films). , Monto oddicational films shown in schools bare, either 8 or 16 mm., which are so narrow in width that difficulties are -7-

encountered in the large magnifications necessary properly to display the pictures.

Housed in the west wing of the building, which is 35 feet by 30 feet, are two classrooms with seating arrangements for 30 and 35 children respectively; the principal's office and kindergarden.

The kindergarden will include several innovations and will be well equipped for the purpose intended. On the hardwood floor, marked off in permanent lines, will be a small play ring. The pupils will have the comfort of a large open fireplace during inclement weather. Along one wall will be built-in book benches with bookcases arranged on both sides.

Between the classrooms is the principals's office from which an electric assembly and dismissal gong is controlled.

The east wing has the same over-all dimensions as the west wing and will contain two classrooms, one for 30 and the other for 25 pupils. Between the rooms is to be placed a teachers' lounge and meeting room.

The building will contain 10 rooms and will have a seating capacity of 175, exclusive of the auditorium and the kindergarden.

When construction has been completed, equipment will be installed and the grounds will be landscaped, it being anticipated that the School will be ready for occupancy by the opening of the fall term.

Chemical Warfare Instruction in Hawaii (Continued from Page 6)

Corporals Graham, Henson and Thomas, 26th Attack Squadron.

lst Lieut. Carter, Staff Sergeants Carnes, Garten and Gaudry, Sergeants Felkner, Geisinger and Vaughn, and Cor-porals Bayham and Wales, 18th Air Base Squadron.

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Arctic Weather over Shreveport, La. (Continued from Page 5)

were visible to the pilots of the mix

airplanes as they flew above Shreveport over six miles in the air. Members of the flight, in addition to Captain Nelson, were Captain Sanders, Lieuts. Tacon, Grove, Keith and Miller, of the 55th Duryit Sanders of the 55th Pursuit Squadron. ------

V-7988, A.C.

TYTTB

The Flying Cadets who graduated on February				
1. 1939, from the Advanced Flying School, Kelly				
Field, Texas, and were commissioned second				
lieutenants in the Air Reserve, were placed on				
active duty at Kelly Field for a brief period				
pending their assignment to various Air Corps				
stations in the United States and in the Insular				
possessions.				

Special Orders of the War Department, recently issued, relieved these newly commissioned Reserve officers from their assignment and duty at Kelly Field on February 14th, and assigned them to the stations as indicated below:

To March Field, Calif.

Lawrence William Coyle Glen Robbins Birchard John Huie de Russy George Henry Gutru, Jr. Harold Marklin Harman Ernest Gordon Ford James Allison Johnson Jean Dowell Gilmore Harry Joseph Holt Henry Preston King WilliamArchibald Lanford George Wayne Thornbrough Eugene Terry Yarbrough Maurice Allen Morgan Ralph Lorimer Oliver Harold Willsie William James Wrigglesworth

To Mitchel Field, N.Y.

Chester Charles Busch Charles Paul Sheffield Campbell Henderson Gould John Joseph Doerr Malcolm McMillan Heber Dwight Francis Lewis Frederick Neil Philbrick Thomas Carl McNeal Brian O'Neill *Franklin Emmett Schroeck Parker Fall Schofield *Bernard Willmore Veatch *For duty with 97th Observation Squadron

To Selfridge Field, Mich.

James Alex Barnett **Robert Lee Baseler** Eugene Louis Clark Newton Robert Dick Harry Albert Jenkins Neil Arnold Newman Edgar Allen Romberg Delmer Norris Skow Raymond Frank Rudell Burton Eugene Schwind Joseph Columbus Smith Eugene Lee Strickland Thomas B. Summers William Waller, III

George Herbert Armstrong John Landrum Brownewell Willis Eugene Beightol James Robert Bruce, Jr. Oliver George Cellini John Scrimgeour Evans Charles Nelson Fendrich Frederick Charles Grambo Archibald Woodrum Moore Paul Lehmann Glenn Moore Heman Ward Randall, Jr. Robert Richard Rowland William Howard Swanson John Jacob Van der Zee Harold Jennings Whiteman Woodrow Burton Wilmot Robert Danforth Van Auken

To Barksdale Field, La.

Frank Lowry Dunn Harry Leslie Galusha Charles Afton Gayle William Lane, Jr. Seth Jefferson McKee Charles Roy Sneed Leonard J.Barrow, Jr.

Martin Perdue Crabtree Holden Fowler Ellison Jack Simmons Jenkins Cecil James Looke, Jr. Jack William Saunders William Emmett Stinson David Dickson Terry, Jr. Clarence Leonard Tinker, Jr.

To Hamilton Field, Calif.

Harold Newt Chaffin Clarence Shipe Chiles George Edward Glober Donald McKay Keiser Clarence Arthur Neely Bruce Burns Price

Robert Edward Crouch John Eugene Dougherty Theodore Fred'k Holsteen Clarence Vernon McCauley Harold Caldwell Smelser Truman A. Spencer, Jr.

To Langle	y Field, Va.
Wilson Harper Banks	Theodore R, Aylesworth
Raymond Joseph Busse	Ralph Anderson Barksdale
John Edgar Carmack	William S. Barkadele, Jr.
Keith Karl Compton	Raymond Fred Bloszies
Arthur Rey De Bolt	Charlie Rankin Bord, Jr.
James Giannatti Virgil Monroe Gillum	Raoul Joseph Bourgoin Paul M. Brewer, Jr.
James Alva Howard	Skidmore Neale Garrett
J. Garrett Jackson	Skidmore Neale Garrett Otha Bennett Hardy, Jr. John Bailey Henry, Jr.
Joe Kennith McNay	John Bailey Henry, Jr.
James Daniel Mayden	Hugh Boyd Manson, Jr. Philip Lambeth Mathewson
Robert Burl Mueller	Philip Lambeth Mathewson
Philip Orville Potter	William Wallace Monyer
Kyle Loyd Riddle Leonard Boston Storm	Robert L. Morrissey Carrell Thurman Murrell
Sulling Preston Turne	r Gerhard John ³ Schriever
	Theodore Wightmen Tucker
*For duty with 3rd	Observation Squadron
	iian Department
Roy Milton Carter	William Simms, Hindson
Cecil Lee Faulkner	William Simms Hindson Thomas Harber Holbrook
Byron Eugene Hall	Wm. Edward Hubbard, 11
	Jake McDonald Marcun, Jr.
Charles Martin Opeil	
Edward Charles Teats Curtis Edward Wood	Raymond Robert Sourgeon Earl Wilson Workey
Harold Fred	erick Wilson and J
	Canal Department
James Dean Berry	Charles William Bogan
Marshall Pyron Camp	JohnPreston Breckenridge
Leon Welton Gray	JohnPreston Breckenridge Kingsbury E. Parker, Jr.
David McNair Peffer	Herbert A. Von Tungeln
Thomas Cullen Smith	Herbert A. Von Tungeln John Williem Weltum
To Fort Lew	is, Washington and the
Por William Custofrom	Albert Donton (David a To
To Marshall Fiel	d, Fort Riley, Kans.
Harold Emmett Humfeld	
To Moffett	Field, Celif. 101 out
John Albert Rouse	and bea
To Pope Field	, Fort Bragg MC.
Thomas Fletcher, Jr.	ieeri bhoi
	, Belleville, 111:
Frank William Jarek James Frede	Clarence Peter Wiltjer rick Setchell
To Brooks Field,	San Antonio, Texas
Andre Jacques Dechaen	
Sidney Bruce Gimble,	
	t Knox, Ky.) betill
Charles Sylvester Mar	shall i busiai
Adolf Milton Wright	in publication as
	00
	TETA
Special Orders of t	he War Department an-

Special Orders of the War Department and nounce the appointment of Colonel George H. Brett (Air Corps) General Staff Corps; ad Assistant to the Chief of the Air Corps, with the rank of brigadier general, for the speriod of four years, beginning February 18, 91339, his relief as Chief of Staff, GBC AIT Force, Langley Field, Va., and from the General Staff, and his assignment to duty at Wright, Field, O., and as Commandant, A.C. Engineering School. V-7988, A.C. -8-

"FLYING FORTRESS"ON EXHIBITION AT GOLDEN GATE FAIR

The Army Air Corps and Hamilton Field can now boast the distinction of being officially represented at the Golden Gate International Exposition, since the delivery to Treasure Island Saturday, February 4th, of the B-17 "Flying Fortress".

The story of the placing of the plane on Treasure Island is one of difficulties and, well, situations. Major.C.P. Talbot, the hard-working Base S-2, S-3, S-4 Officer at Hamilton Field, was detailed, in addition to his other duties, to handle the details of the project from its inception. Major Talbot was all set early in January to fly the plane to the Island, which is not more than five miles away from Hamilton Field by water, and land her in a sufficiently clear, smooth area, weather permitting, wind right, and all the other "ifs" contingent upon getting the big ship on the little man-made island.

But luckily, before the proposed flight was made, some slight obstructions were noted in the "clear, smooth area". These obstructions proved to be lamp posts, which the Exposition workers had inadvertently set in cement, checker-boarding the intended landing spot, and consequently making a landing on the island out of the question. This situation might have stumped the

This situation might have stumped the ordinary individual, but not the Army. The B-17 was flown to old Crissy Field and placed near the sea wall, where she could be put on a barge and towed to the island. It was at this point that the Army found out about tides, winds, and the wetness of the Pacific Ocean. The ramp, built to hold up the 12-ton load from the sea wall to the barge, failed to withstand the high tide, and consequently was beached thirty feet away the night before the fateful journey was to take place.

indunted, however, another ramp was built on the following morning. The plane was put on the barge, towed, and lifted over the sea wall on Treasure Island by crane, and now she stands resplendent in the center of all the Federal exhibits.

After a bath, a coating of shellac to withstand the weather, and plenty of metal polishing on the part of her grooms, the B-17 is ready for all comers, for the Fair not only to see, but the part inside and satisfy that flying urge.81

Finisher the Exposition for its duration, Feb. 18th to December, 1939, to guard and explain the parts and equipment of the B-17, will be 1st Lt. Robin C. Cannon, 2d Lt. William R, Stark, Sgt. Nolan L. Thibodeaux, Pvts. 1/cl Ernest G. Werner and Clarence A. Le Mieux, and Pvts. Robert J. Dunn, Jr. and Allen N.Sly. The link trainer, which will be on display and at the disposal of anyone having in his possession a pilot's license, is expected to provide some amusement and diversion for the men on this detail, who anticipate a constant barrage of questions and not as much fun as you might expect on such a mission. ---000----

ARMY EXHIBIT AT SAN FRANCISCO EXPOSITION

Included in the U.S. Army Exhibit at the San Francisco Exposition on Treasure Island is a large mosaic of the San Francisco Bay area. Visitors to the Fair can see a clear lay-out of San Francisco, the Golden Gate Bridge, the Oakland Bay Bridge, Treasure Island, and many other interesting details.

The map, covering an area of 108 sq. miles, is 8 ft. wide by 12 ft. long. Seven hundred pictures were used in laying the mosaic. They were taken from an elevation of 6,000 ft. with a K-3B camera. Three months were spent in completing this tedious work and credit for the fine job is accorded Moffett Field, Calif., personnel in the persons of 2d Lt. Karl L.Polifka, A.C., pilot; Pvt. J.D.Goldstein, photographer; St.Sgt. Raymond M. Bishop, for the laying out; and Pvt. 1st Cl. James West, the painter.

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GAS DEFENSE TRAINING AT HAMILTON FIELD

The 88th Reconnaissance Squadron, Hamilton Field, Calif., has completed in January 1939, a course in "Defense Against Chemical Attack", and in train-ing each of its officers and six enlisted men to act as Unit Gas Officer and Gas N.C.O. The instructor was 1st Lt. Leslie O. Peterson, A.C., a gradu-ate of the Chemical Warfare School at Edgewood Arsenal, Md. The course was given over a period of two weeks and a total of sixteen hours was spent in lectures. At the close of the instruction, each student entered a gas chamber to emphasize the effectiveness of the army In addition, concentrations gas mask. of the common chemical agents were set up in the field so that the class could identify and familiarize themselves with the characteristics of each. After completion of the course, each student was presented with a diploma. ---000---

SOLDIER'S MEDAL AWARDED CORPORAL WILSON

Corporal Frederick H. Wilson, Air Corps, 2nd Air Base Squadron, Mitchel Field, N.Y., was awarded the Soldier's Medal for heroism displayed in extin-

Medal for heroism displayed in extin-guighing a fire in a burning airplans. The presentation was made on February 11, 1939, by Major General Hugh A. Drum, Commanding General, 2nd Corps Area. Cap-tain J.M. Bevens, Air Corps, Base Adju-tant, read the following War Department Citation: "Frederick H. Wilson, R-1845622, pri-vate, air mechanic, second class, Air Corps, (now Corporal), United States Army. For heroism displayed in extin-guishing a fire in a burning airplane at Mitchel Field, New York, on July 5, 1938. Noticing that a fire had started in the Noticing that a fire had started in the right wing of an airplane which was be-ing taxied by him to a position near several other parked airplanes, Private Wilson turned off the fuel valves and the master ignition switch of the ship, leaped to the ground, and picked up a fire extinguisher, played its contents on the blaze. On the arrival of the fire truck, Private Wilson, with complete disregard of his personal safety, well knowing that all fuel tanks of the airplane were full and that there was imminent danger of an explosion, ran to the truck, seized a hose and played fire-extinguishing chemical therefrom on the blazing wing until the fire was extin-guished, after which he again took a hand extinguisher, climbed into the still smoking ship and emptied its contents into the cite of the blaze. The heroism displayed by Private Wilson on this occasion averted possible loss of human life and prevented the destruction of

valuable government property." Following the presentation of the medal, the entire command of Mitchel Field passed in review for General Drum and Corporal Wilson to the strains of martial music supplied by the 62nd Coast Artillery Band from Fort Totten, Long Island, New York.

The News Letter Correspondent declares that the entire command of Mitchel Field is proud of Corporal Wilson's actions in averting what might have been a fatal accident and wish him continued success in the Air Corps.

FAST FLIGHT BY NEW PURSUIT PLANES

Officials at Langley Field, Va., were "quite satisfied" with the performance of five new P-36A Pursuit planes which were flown on February 17th from Buffalo, New York, to the Peninsula airdrome.

These new planes, which became a part of the war birds of the Eighth Pursuit Group, made exceptionally fast time on the approximately 432-mile jaunt between Langley Field and Buffalo. The flight

was led by Captain John E. Bodler affind the 33rd Pursuit Squadron, and the planes were flown from the Curties of plant at Buffalo. The new type shape, i flew at an altitude of 13,000 feat and no attempt was made to establish second record of any kind, since the planes, a are new and the flight was a millitary formation. mant ac

Several P-36A planes have been for-ried to Langley Field in recent mosks. Twenty-four of the silvery one-seaters participated in the aerial review held in honor of Major Caleb V. Haynes for-lowing his return from a mercy mission act jutiler. to South America.

> from Pamilt QUARTERS AT HICKAM FIELDJeving enillis See

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The long awaited quarters at Hickmis) Field, T.H., have reached partial com-pletion, and the first of February 100 found a number of officers of the 5there Bombardment Group and of the lethvWing moving out to the new post. "The Gona struction Quartermaster has apparently done another fine job," declares the News Letter Correspondent, "and it is?" apparent that Hickam Field willrecon)

apparent that Hickam Field Willregon) take its place as one of the most. ht-in tractive Air Corps posts." Concerced The construction of the quarters has been so planned as to avoid the particular ance of monotony. During the particular eral years an efficient nursery has it been operating on the post, and thous-ands of flowering plants, shrubsandour trees are available for use in beauti-trees are available for use in beauti-tying the post. Landscaping anticipation fying the post. Landscaping and laws ters are nearing completion, thus add-ing considerably to the appearance of iron Post the post.

SOMETHING BIG IN THE WAY OF A TRUCK 23.51

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An item of equipment which has Monget been desired by the San Antonior dim Depot, Duncan Field, Texas, was justiges. ceived, namely, a magnificent new Type C-2 Wrecking Truck (airplane "torash" truck), manufactured by the Corbitto Company, Henderson, N.C. This monster vehicle, which weighs 26 tons, is 70 feet long, has 22 wheels, and is power-ed with a 250 h.p. motor. It was OLA driven from Henderson to Duncan Field by truck drivers Edward Lanottic widd by truck drivers Edward Lanotte and E.G. McMonigal, of the Motor dransport Department of the Depot, and the dist tance of 1900 miles was covered in due time without a single incident mand the journey, which might constitute is something of a record. They bassdaush through the States of North Carpling South Carolina, Georgia, Florida Balizer Alabama, Mississippi, Louisfand Land be Texas. Sincere appreciation is and the (Continued on page 11)/Islass V-7988, A.C.

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ENLISTED MEN ASSIGNED TO WEATHER SCHOOL

Special Orders of the War Department, recently issued, direct the followingnamed enlisted men of the Air Corps to proceed, without loss of grade or rating, by military aircraft if practicable, otherwise by rail, to the Air Corps Weather School, Patterson Field, Fair-field, Ohio, to report not later than February 27, 1939, for the forecasters

course commencing on that date: blost weityFirst Weather Region -Staff Sorgeant Bernard C. Hoffman and Corporal Henry A. Smitt, from Fort Lewis, Washington.

Private First Class James A. Rosentiel. from Hamilton Field, Calif.

Privates First Class Claude N. Hall and William A. Pope from March Field, Calif. fr

-mon IsiSecond Weather Region Corporat Earl M. Gay, from Aberdeen Proving Ground, Md. Private Ross A. Somers, from Fort

Bragg, N.C.

Corporal Dale W. Akins, Private Willards C: Snyder, from Langley Field, Vall JL

Corporal Stephen Kubica, from Bolling

Field, D.C. Corporal Kenneth W. Smith, from Chanute Field, Ill, Privates First Class Harold F. Guth and Lester R. Robinson from Patterson

Field, Ohio. Privates First Class Keith H. Asher and Charles H. Harrison from Scott Field; 9111,

Private First Class Leonard A. Trojanoski, from Mitchel Field, N.Y. <u>Third Weather Region</u> Private First Class Charles F. Needell,

from Post Field, Okla.

Privates Kenneth H. Smith and Herbert Gustafson, from Barksdale Field, La. Corporal Donald D. Fay, Privates First J.

Class Maxwell W. Roman and John P. Crews,

from Kelly Field, Texas. - Corporal Earle W. Clifton, from Ran-dokph Rield, Texas. - Private First Class LeRoy N. Cooking-ham, from Hensley Field, Texas. Corporal Coyd C. Gibbs, from Biggs

Field, Texas. ----000----

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MAJOR DAVIES DELIVERS TALK TO RESERVES FI of T

Major Isaiah Davies, Air Corps, Direc-tor of Flying at the Air Corps Advanced Flying School, Kelly Field, Texas, was the principal speaker at a meeting of the Reserve Officers Association of the United States (Dallas Chapter) at Hensley Field, Texas, on the night of Fabruary 8th. Major Davies' very interesting and instructive talk was deliver-ed to 175 Reserve Officers (of all branches); of the Dallas Chapter at their regularly ischeduled meeting. A great -11-.C.A. .S

deal of favorable comment was received from listeners as well as the local press. Major Davies' topic was "The U.S. Army Air Corps." -000-----

KELLY FIELD FACULTY HEARD ON THE AIR

Several members of the faculty of the Air Corps Advanced Flying School, Kelly Field, Texas, were recently heard in a series of radio broadcasts over station KTSA. "The Voice of the Light," San Antonio, Texas, sponsored by the San Antonio Junior Chamber of Commerce. The talks were based on training activities at the Advanced Flying School, and were a continuation of the recent talks

a continuation of the recent talks given by the faculty of the Primary Flying School, Randolph Field, Texas. On the first of these radio broad-casts, Thursday, February 9th, Colonel Eugene A. Lohman, Air Corps, Assistant Commandant of the Air Corps Advanced Flying School, was interviewed by Mr. L.C. Lampe, Chairman of the Aviation Committee of the Junior Chamber of Commerce. Colonel Lohman described the purpose and objective of the Air Corps

Advanced Flying School in general. On the following Thursday, Captain Burton M. Hovey, Jr., Air Corps, Chief of the Pursuit Section, and 1st Lieut. John H. Ives, Air Corps, Operations Officer of the Attack Section, were similarly interviewed, and they described the history, organization, and role played by their respective branches of aviation, as well as the methods employed in training the students of their respective sections at the Advanced School.

On Thursday, February 23rd, Captain Russell E. Randall, Air Corps, Chief of the Observation Section, was slated to be heard over the same radio facilities on Observation Aviation, and the course and methods of instruction employed by

his Section in training Airplane Pilots and Airplane Observers. The following week it is expected that Major John V. Hart, Air Corps, Chief of the Bombardment Section, will bring this series of radio broadcasts to a close. From all reports, this series has been well received by the general public.

Big Truck (Continued from Page 10).

the State Highway Police of these States, and all other traffic officials along this entire route, for the courteous and able assistance they rendered at all times in facilitating the passage of this giant truck,

In recognition of his skill in the use of the Army .45 caliber automatic, an Air Corps enlisted man was honored at the 113th Annual Old Guard Reception and Ball, held at the Hotel Commodore, New York City, on the evening of Fri-day, January 27th.

Private First Class, Specialist Third Class Stephen L. Kross, 97th Observation Squadron (Corps & Army), stationed at Air Base Mitchel Field, Long Island, New York, won the highest individual honors of the 1938 New York State Pistol Meet with a score of 291 out of a possible 300. He was awarded a handsomely engraved silver loving cup, presentation of which was made at the Old Guard Ball by Major General Hugh A.

Drum, commanding the Second Corps Area. The state-wide pistol meet was conducted under the auspices of the New York National Guard at Camp Smith, Peekskill Mountains, N.Y., during the month of October, 1938. The Regular Army "L" courses were used, involving both slow and rapid fire phases at distances of fifteen and twenty-five yards. Prior to enlistment, Kross resided in The competition was open to all comers Cleveland, Ohio.

and included representatives from military, police and civilian teams and

Private First Class Kross fired as a member of the Nassau County Police team, which garnered top team honors of the 1938 meet, and in the individual compe-tition he represented his army "differ 382 V.A organization.

This soldier's military record discloses long interest and marked success with the use of military weapons. Suring three years with the Field Artil lery in the Hawaiian Islands, he was qualified repeatedly as Expert Cunner and Pistol Expert. In 1932, while stationed with the 25th Bombardment Squadron at France Field, Panama Canal Zone. Private Kross won the high individual honors in the Panama Department pistol elimination, using a standard Army .40 caliber automatic. His present Arr Corps ratings include qualification as Expert Aerial Machine Gunner and Pistol Expert. He is performing duty as air-plane and engine mechanic in his squadron engineering section.

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NEW UNOFFICIAL WORLD'S FASTEST FLIER By the Barksdale Field Correspondent

To Second Lieut. Troy Keith, Air Re-serve, 55th Pursuit Squadron, GHQ Air Force, Barksdale Field, La., goes the dubious distinction of being the world's fastest flier. It will be re-called that about a fortnight ago Lloyd Child, Curtiss-Wright test pilot, at-tained a speed of 575 miles per hour while testing a plane for the French Government. On Monday, February 6, 1939, this record was bettered by approximate-ly 50 miles per hour when Lieut. Keith, while flying at an altitude of 28,000 feet, lapsed into semi-unconsciousness, due to the lack of eufficient oxygen, and went into a power dive. Upon re-gaining consciousness, Lieut. Keith found himself at an altitude of 15,000 feet, with an indicated speed of 500 miles per hour (corrected to 625 miles miles per hour (corrected to 625 miles per hour). Due to the terrific speed at which the plane was traveling, it re-quired another 6,000 feet of altitude to

make the pull out from the dive. An examination of Lieut. Keith by the Flight Surgeon at Barksdale Field, after the flight, disclosed that the pilot was normal in every respect and had suffered no ill effects from the dive. This occurrence refutes the statement of a radio commentator, made recently, to the effect that such a speed and pull out means about three days in the hospital for the pilot. Either that, or it must

be acknowledged that Barksdals Field ... pilots and planes can take it in no small measure.

The P-36A airplane which Lieut. Keith was flying is very similar in type to the **airp**lane which made the former record of 575 iles per hour. ur no fici

ាដ ភ្ន DEATH OF LIEUT. WILBUR D. CANP

On the afternoon of February 9, 1939, Lieut. Wilbur D. Camp, Air Corps, died as a result of shock and exposure after the sailboat in which he was riding capsized on Cross Lake, near Sureveport, Ъa

Lieut. Camp was born in Waco, Texas, on March 8, 1914. Following his gradu-ation from North Texas Agricultural College in 1934, he entered the Afr Corps Primary Flying School at Reidolph Corps Primary Flying School at Raidouph Field. He received his wings apon som-pletion of the Advanced course at Kelly Field in March 1, 1937. He specializ-ed in Pursuit Aviation. Ordered.touri Barksdale Field, La., for active whity, he was assigned to the 79th Pursuit tout Squadron, 20th Pursuit Group: GHQ Air Force. He was commissioned a second lieutenant in the Air Reserve on Hersh ist, 1937, and in October, 1938, decond was commissioned a second lieutenant. in the Air Corps. Regular Army, attach in the Air Corps, Regular Army. Att V-7988, A.C. -12Chanute Field is a level spot on the plains of Illinois and, although the buildings utilized for the Air Corps Technical School are of wood and what is vulgarly known as "war-time constructions", serious efforts were put forth by the Civilian Fire Chief, Herman A. Beors, Q.M.C., to keep the Old Red De-

men-Fire away from our doors.

The Chief may have been seen on any and all occasions poking into a building, examining the fire fighting equipment, holding drills to determine the length of time necessary for his smokeeating laddies to unlimber the hose and place a stream of water on his simulated conflagration.

It was an impressive sight to watch the Chief, bald pate shining in the bright sunlight, stop-watch in hand, pull an alarm box and have his boys hop to it in an effort to clip seconds from the last run to the same location.

The Chief, his fierce eyes glowing, would stand around with agony plainly etched on his countenance, loudly voicing his disapproval of the tactics and technique displayed by the "fighters" in attempting to hook up a hose or play an extinguisher on the theoretical flame. Everything must be done just so, and one little slip would draw a growl from the Chief.

There is no question but that the Chief believed in preparedness. His equipment were shining things of beauty and efficiency. He rarely wandered far from his appointed place of duty, and if not found in the Fire Station, he could be readily located in the Mess Hall or the War Department Theatre. Alas, The Fire Station is no more!

On January 14th, the Chief gave the post the once over and, with smug satisfaction, decided that all was under control. Little did he realize the fate that was in store for him as he mounted his trusty new Oldsmobile and headed north to see how the boys in the Windy City of Chicago were getting along with their problems. Tooling northwards, the Chief toyed with the idea of galling on the Fire Commissioner and offering gratuitous advice anent the lessons learned during the past, but discarded this in favor of a show and a night's rest in one of the local inns.

Having satisfied his aesthetic side, the Ohief headed southward to Chanute Field, on the evening of the 15th. He gave thought to the fire fighting organization he had at Chanute Field and silently wished for an opportunity to demonstrate its worth. He was fast getting drowsy as he neared Rantoul, and

anticipated the comforts of his downy couch in the Fire Station. Yes, the Chief even thought of his worthly possessions in the Fire House and opined he would break out in the new brown checkered suit and diamond ring in the morning. The world was decidedly a fine place and the Chief was at peace with the world.

The story is ended except that as the Chief rounded the entrance to his home bailiwick, he learned to his dismay that the Fates had indeed been unkind and that they had unleashed The Old Red Demon on the Air Corps Supply, Guard House and Fire Station and quickly consumed them and the worldly goods of the Chief, downy couch, checkered suit and diamond ring, leaving the Fire Marshal and the Commanding Officer to battle the blaze he had so long trained to control. What a cruel trick to play on an ambitious Fire Chief!

WING TACTICAL EXERCISES IN HAWAII

The high-light of the past several weeks in the training activities of the 5th Bombardment Group, Hickam Field, T.H., was the Wing Tactical Exercise conducted on January 25th. The Bombardment squadrons of the Group were dispersed to airdromes on the other islands while Reconnaissance squadrons operated as friendly reconnaissance from a dispersed airdrome on Oahu. A Reconnaissance unit was detached from the Group and, operating under direct orders from the Wing, kept the "hostile" Bombardment airdromes under surveillance and trailed the "enemy" after they left dispersed airdromes for attack on vital installations on Oahu.

The defending 18th Pursuit Group, using position reports furnished by this Reconnaissance unit, took the air in time to intercept the Bombardment as they approached the bombing target. A fierce air battle ensued, during which time yards of gun camera film were "fired" by both sides and the Bombardment deposited its load of bombs on the Ahua Point bombing target.

The 72nd Bombardment Squadron in the Hawaiian Department, under the command of Major Oliver P. Gothlin, Air Corps, was awarded the Department Commander's streamer in recognition of attaining the highest rating in the 5th Bombardment Group in efficiency during the past year. The awards are made at a special review to the element of each regiment or similar unit which during the past training year has had the best record in all-around efficiency.

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NEW REFUELING UNIT By the News Letter Correspondent

A new type of Army Air Corps refueling unit has arrived at Wright Field, Dayton, Ohio, from the plant of the manufacturer. The unit consists of a truck with two tank semi-trailers attached. The purpose of this new enlarged unit is for the supply of fuel in larger quantities for servicing the airplanes of larger types. Two tank trailers are to be supplied with each They will be used alternately, truck. one being kept on the field for refueling purposes while the other is being towed for refilling to and from the source of fuel supply. This arrangement permits one tank containing fuel to be available at all times.

The truck and tanks were designed by engineers of the Materiel Division. The truck has six wheels, with sixwheel drive and dual tires. A separate hand control air brake for each unit permits operation over hilly and icy roads. The truck is equipped with the standard hand inertia starter which is used on airplanes. This is in addition to the regular conventional electric starter and is intended for emergency use in case of a rundown battery. There are ten forward speed shifts and two reverse shifts with overdrive. The maximum sustained speed is 35 m.p.h. A low speed of 2 m.p.h. provides a maximum pulling power.

The two semi-trailer type tanks have a gasoline capacity of 4,000 gallons each. Each is equipped with a dual pumping system powered by a 24-hp. aircooled engine. A right-angle drive gear box operates the two pumps. Strainers, meters of 5,000-gallon range, standard Air Corps fuel segregators, power-driven hose reel with 23-inch capacity hose 75 feet in length are other items of equipment. Internal valves are installed which close when the rear compartment doors close. The control system provides fusing points which in case of fire will also close The rear compartments are all valves. provided with CO2 automatic fire extinguishing systems. These will operate at a sudden rise in temperature, or in case of explosion, and flood the en-

tire compartment with CO₂ gas. Each tank has four compartments. The pumping system pumps from any one of these compartments or any combination of them. The pumping system is so arranged that airplanes may be serviced, or airplane tanks evacuated, or fuel transferred from one airplane to another, or gasoline pumped from railroad cars with the tank trailer in any position. It is possible to transfer from

40 to 200 gallons per minute with each of the two pumps, giving a maximum supply for each trailer of 400 gallons of gasoline per minute.

A dolly is provided which converts each semi-trailer to a full trailer, enabling the tanks to be towed by any military vehicle.

The total gross weight of tanks and trailer is 57,000 pounds. This weight is distributed over 18 tires.

is distributed over 18 tires. The gasoline tank refueling unit delivered at Wright Field is the first of an order for five. It was sent to Wright Field for observation on route to New York where it will be shipped to Hawaii. Others on the order will be distributed to various Air Corps stations where the larger Bombardment types of aircraft are in service.

MOFFETT FIELD PILOTS QUALIFY IN GUNNERY

The 82nd Observation Squadron at Moffett Field, Calif., recently had the following officers qualify as Expert Gunners in Course Three, Aerial Gunnery: First Lieut. Robert Alan, Second Lieuts. Potter B. Paige and Kermit A. Tyler, Air Corps. Second Lieut. Frederick L. Moore, Air Corps. qualified as Sharpshooter.

Air Corps, qualified as Sharpshooter. Lieut. Alan shot a high score of 729 for the complete course, while Lieut. Tyler took honors for the exceptional high score of 229 out of 250 in Phase One.

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LECTURE ON WEATHER FORECASTING

First Lieut. John B. Ackerman, Air Corps, commanding the Weather Section of Chanute Field, Rantoul, Ill., delivered an address on February 10th before the American Institute of Electrical Engineers at the Electrical Engineering Building, University of Illinois, on the subject of "Weather Forecasting and its application to Aviation."

Lieut. Ackerman outlined the weather service of the Army Air Corps, and in realy to direct questioning, on whather aircraft crashes could be eliminated, neatly sidestepped by replying that crashes due to weather are decreasing with each improvement in the service, Lieut. Ackerman outlined weather pro-

Lieut. Ackerman outlined weather procedure and concluded by informing the audience 'that he would stick his neck out' and predicted 5 deg. below zero for the following morning. His neck must have been frozen, since the fickle fates only dropped the red line to a measley 8 deg. above. "Maybe John shouldn't stick his neck

"Maybe John shouldn't stick his neck out," concludes the Chanute Field Caprespondent.

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RANDOLPH FIELD JOINS TELETYPE NETWORK

The Post Weather Office at Randolph Field, Texas, formally joined the main lines of the Civil Aeronautics Authority teletype system at 10:49 a.m., on February 9th, when the first message was re-ceived on the new automatic printers.

Prior to the installation of addition-al equipment, the Primary Flying School's Meteorological Office received all its weather observations, and Post Operations Office dispatched and received its PX messages through its companion field in the San 'Antonio Area, Kelly Field.

oThis system entailed certain delays that were unavoidable, and plans were made foitie the Randolph Field office into the main line of Circuit 18 of the teletype system. Work on the installa-tion of a perforator and also additional printers were started late in January and completed for the first message on February 9th The mechanical and February 9th. The mechanical equipment of the office now consists of one perforator for automatic transmission, two page printers, Model 15, and one tape printer, Model 14. Circuit 18 of the teletype system cov-ers the Atlanta - Fort Worth - Browns-

ville Airway, with a relay from Atlanta, GBIT

natooday HIGH PERCENTAGE OF STUDENTS COMPLETE PRIMARY COURSE AT RANDOLPH FIELD

Student flight training at Randolph Field for the present classes, 39-C and 39-B, ended on February 14th, somewhat ahead of schedule, due to unusually fine weather during the greater part of the period. Primary Stage, which started training with 335 student officers and Flying Cadets, eliminated only 98 for Tailure to meet the standard of flying proficiency required, or less than 30 percent. An additional ten men were eliminated for various reasons or re-signed. Thus, 70 percent of the student pilots who started flight training successfully completed the first four months work, and it constitutes one Months' work, and it constitutes one of the highest percentage marks ever attained at the Primary Flying School. Meanwhile, Basic Stage, Class 39-B, started its training last October with 191 statent pilots, including three foreign officers and two Flying Cadets from the Philippine Islands. During this course 4 student officers and this course, 4 student officers and 22 Flying Cadets were eliminated, and 165 successfully completed the course. ----000----

During the month of January, 1939, the Engineering Department of the San Antonio Air Depot, Duncan Field, Texas, overhaul-ed 10 airplanes and 94 engines and repaired 32 planes and 6 engines. -15-

WEST POINT COMMANDANT OF CADETS VISITS RANDOLPH FIELD.

Lieut. Colonel C.W. Ryder, Commandant of Cadets at the U.S. Military Academy, spent several days on an informal inspection tour of the Air Corps Primary Flying School at Randolph Field, Texas. The trip from West Point to Texas was made in a BC-1 airplane, piloted by Captain Robert W. Harper, Air Corps. Colonel Ryder spent considerable time

at the Flying Cadet Detachment area, during the course of which he inspected methods of housing, feeding, and school-ing the future pilots. Air Corps maintenance problems also proved of inter-est to the West Point Commandant of Cadets. He accompanied Colonel John B. Brooks, Commanding Officer of Randolph Field, on an inspection tour of hangars and airplanes during his visit.

Colonel Ryder was also present at a formal inspection of the Flying Cadet Detachment, first viewing the cadets in barracks and later witnessing the inspection under arms.

FLYING CADET OFFICERS NAMED AT RANDOLPH FIELD.

At a ceremony held in the Flying Cadet Detachment Mess Hall on February 24th, Lieut. Colonel Edwin B. Lyon, Assistant Commandant of the Primary Flying School, Randolph Field, present-ed 86 Flying Cadets of the Class 39-C, the class being transferred to the Basic Stage, with warrants for their appointment as Cadet Officers and Non-commissioned Officers for the ensuing four months. The average of transferred The awards of trophies and four months.

needals were announced at the same time. Flying Cadet Herbert W. Peters, of Appalachia, Va., a graduate of Virginia Military Institute, was named Battalion Gaptain. Company Captains, as announc-ed, will be Flying Cadets Paul C. Schauer, of Fort Wayne, Ind.; Thaddeus L. Woltanski, of Chicago, Ill.; Nicholas N. Metropolasy. of Salem Nicholas N. Metropolsky, of Salem, Mass.; and William W. Walmsley, of New York City.

Thirteen Cadet Lieutenants, four First Sergeants, 30 Cadet Sergeants and 34 Cadet Corporals also were announced.

Flying Cadet Jack C. Jones, of Dobbs Ferry, New York, a member of the Class 39-B, which is transferring to Kelly Field, was awarded the Catlett Medal for Soldierly Efficiency. Flying Cadet William B. Reed, of Kintnersville, Pa., was awarded the Williams Medal for Athletic Development, and Flying Cadet Harvey E. Greiger, of Wanatah, Indiana, was given the Casino Club Medal for Academic Proficiency.

The story of a boy born and reared on a farm in lowa, who yearned to become a pilot, and who served in the Army almost eight years before he achieved his ambition, is that of 2nd Lieut. Dwight Francis Lewis, 25, Air Reserve Officer, who recently graduated from the Advanced

who recently graduated from the Advanced Flying School, Kelly Field, Texas. Born near Corning, Iowa, Lieut. Lewis had his first trip in the air at the age of 12 in a barnstorming plane, but even before that he wanted to become a pilot because he had heard of the exploits of his cousin, A.L. McClain, who was an instructor at Kelly Field during the World

War. In order to learn something about airplanes and to be close to them, Lieut. Lewis enlisted in the Air Corps at Chanute Field, Ill., on March 28, 1931, and a year later graduated from the Air Corps Technical School as an Airplane and Engine Mechanic.

He was then transferred to the 52nd School Squadron at Randolph Field, and he served there as an enlisted man until he passed an examination and became a Flying Cadet on March 1, 1938. But while he was an enlisted man he attended the San Antonio Public School of Law at night for a period of three years, graduated with the Bachelor of Law degree, and was licensed to practice law in Texas. His examination to become a Flying Cadet would have been unnecessary had the school he attended been affiliated with the American College Association. But as it was necessary to take the examination, Lieut. Lewis studied harder than ever and was more determined to become a Flying Cadet, and his efferts were rewarded by passing the entrance examination. Then he successfully completed the year's flying course of the Air Corps Training Center, graduating as a member of the Attack Section.

the Air Corps Training Center, graduating as a member of the Attack Section. Lieut. Lewis' brother, Lieut. David L. Lewis, is also an Air Reserve officer, having graduated from Kelly Field last June. Another brother, Corporal Arthur B. Lewis, is a member of the 11th Air Base Squadron at Randolph Field.

The construction of the two new barracks in the Flying Cadet Detachment area at Randolph Field, Texas, is, to outward appearances, almost completed. The east barracks will be completed and turned over officially by the contractor about March 15th, the News Letter Correspondent believes. The west barracks, started about forty days later than the first, is maintaining its relative progress and should be available for occupancy about May 1st, next.

KELLY FIELD GETS ANOTHER RECORD CLASS

Orders were received from the Air Corps Training Center, assigning another record class of students for edge vanced training at the Air Corps Advanced Flying School, Kelly Field, Feras: This class, officially known as No-S9-B, consists of 166 students. J Two: Regular Army Officers, one Philippine Army Flying Cadet, and 45 U.S. Army Flying Cadets will specialize in Attack Aviation: two Regular Army Officers and 38 U.S. Army Flying Cadets will trais with the Bombardment Section; two: Regular Army Officers, one Philippine Cadet, and 20 U.S. Army Flying Cadets will train with the Observation Section, while one Philippine Army Officer and 55 U.S. Army Flying Cadets will receive "high flying 'pea shooter' Pursuit"

training. This class was scheduled to report at Kelly Field on February 25th, and the period to include February 28th was to be utilized for processing students, etc., with flying training. slated to begin on March 1st. Gradustion Day for this class has been tentatively set for May 31, 1939, and the Kelly Field Correspondent expresses the hope that Old Sol will give this section of the country a break by hanging around, thereby affording this class an opportunity to complete its prescribed course and allotted flying hours in record time.

MORE RESERVE STUDENTS COMPLETE REFRESHER COURSE.

The following-named second lieutenants, Air Corps Reserve, completed the special refresher course of instruction for Air Corps Reserve officers at the Air Corps Advanced Flying School, Kelly Field, Texas, on dates and in the specialized branches of aviation indicated, and were assigned to the stations shown after their respective names, viz:

Bombardment Fred M. Adams, 31, Burbank, Callif.; Jon A. Laird, 30, Waco, Texas; Alying J.H. Mueller, 28, Seguin, Texas, and Luther E. Thomas, 29, Austin, Texas, on February 4, 1939, and to Hamilton Field, Callf.

Don D. Cascio, 33, Staten Island, N.Y., January 28th, returned to rivil life; Joseph R. DeLaume, 27, Port Arthur, Texas; Robert H. Monroe, 34, Los Angeles, Calif.; and Charles A. Watt, 33, Detroit, Mich., on February 21, 1939, and awaiting orders. <u>Pursuit</u> John A.H. Miller, 35, Coffeyville; Kans., and Lewis M. Sanders, 31, of (Continued on Page 17)

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GUATEMALA AIRMEN VISIT PANAMA CANAL ZONE e Air

Ten airplanes of the Guatemala Air Force landed at Paitilla Point Airport near Panama City at 1:45 o'clock on the afternoon of February 9th. The flight, under the command of Colonel Henri Massot, was on a good-will tour of Central America and bore a message from General Jorge Ubico, President of Guate-The Guatemalan Squadron, flying five Waber biplanes and five Ryan monoplanes, - Was met in the vicinity of Rio Hato and was met in the vicinity of Ric hato and eccorted to the Panama airdrome by the 74th Attack Squadron, led by Lieut. Coloned Willis H. Hale. After circling Panama City, the planes landed on the airdrome, where an array of officials of the Republic and of the Canal Zone, Armin officians and diplements were gather Army officers and diplemats were gathered to meet them. Later, the fliers were escorted to the Union Club in Panama City, where they were the guests of Foreign Minister Garay at luncheon. "On the following day, the Guatemalan officers called on the Governor of the Canal Zone, the Commanding General of the Panama Canal Department, and the Commanding General of the 19th Wing. In the evening they were suests at

In the evening they were guests at the homev of Colonel Hale, Commanding Officer of Albrook Field, where they were presented to the officers of the post. A dance was held in honor of the visiting officers at the Officers' Club, Post of Corozal. The planes had been flown from the commercial airport to Albrook Field in the late morning.

The third day of the visit was taken up in sight-seeing. In the evening the visitors attended a dinner dance at the Union Club. Early the next morning, the planes' took off for San Jose, Costa Rica, on the first leg of the flight home. الدول -------

g11eE LIEDT, PROXMIRE PLUNGES TO HIS DEATH

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On February 19, 1939, Second Lieut. Magmus B. Marks, Air Reserve, of the 17th Pursuit Squadron, Selfridge Field, Mich., saw his companion and very close friend; Second Lieut. Theodore S. Prox-mire; Jr.; Air Corps, of the 27th Pur-suit Squadron, plunge to his death in his plane. into the Lake Santa Fe, Fla. Lieut: Marks made a forced landing nearby in his endegyor to render aid

nearby in his endeavor to render aid, but to no avail, in spite of the crowd that had formed at the scene of the accident afterwards to try to recover the

Both. pilots were enroute to Valparaiso, Fla.4 from Jacksonville, Fla., to join the First Pursuit Group, which was en-gaged in both aerial and ground gunnery practice.

Listity Proxmire was born on August 29, 1913) . He attended the Hill School at Pottstown, Pa.; Yale University, and graduated from Randolph and Kelly Fields. -17-

His only living parent, Dr. T.S. Proxmire, resides at Lake Forest, Ill. "Lieut. Proxmire's vacancy will be most difficult to fill," declares the Selfridge Field Correspondent, "and he will be missed by the whole field as well as the 27th Squadron." ----000----

NAVIGATION TRAINING FOR INSTRUCTORS

In the interim between classes at the Air Corps Primary Flying School at Randolph Field, Texas, almost one hundred instructors and other permanent personnel departed on navigation flights as part of the annual War De-partment Training Directive. Practically every Air Corps station in the United States will have been visited by at least one Pandolph Field

visited by at least one Randolph Field BT-9 between February 15th and March 10th, when training will be resumed on the Primary Stage. Destinations as far the Primary Stage. Destinations as far distant as Pearson Field, Vancouver Barracks, Washington; Boston Airport, Mass., and Chapman Field, Florida, were on the clearances issued by Post Operations Office.

The instructors on the Basic Stage found it necessary to curtail their flights, due to the commencement of student training in that department on February 25th. ------

Students Complete Refresher Course (Continued from Page 16).

San Antonio, Texas, on January 28th, and to Selfridge Field, Mich. There were a total of 24 Reserve officers trained at Kelly Field during the period of instruction of the regu-lar class of students (No. 39-A). It is anticipated that an additional 18 Reserve officers will arrive at Kelly Field shortly to pursue a similar course of instruction.

PURSUITERS REGRET DEPARTURE OF PB-2A'S

"Very shortly," declares the Correspon-dent of the 36th Pursuit Squadron, Langley Field, Va., "we will lose our old friends, the PB-2A's, which have stood by us for more than two years. We are sorry to see our faithful steeds leave us, and hope that they are treat-ed with respect in their new home at Maxwell Field. The new P-36A's, re-placements for the PB-2A's, are just like new one-year old colts, always wanting to kick up their heels and get wanting to kick up their heels and get going. Everyone is well pleased and hopes that we have room for all of this expansion in the Air Corps, so our steeds can have a roof over their heads."

CHANGES IN THE MARCH CLASS AT RANDOLPH FIELD Falls City, Neb. Brooklyn, N.Y. Lang, Donald Washburn Schwartz, William Trosper, Earl Joseph Wilson, Richard Rupe Oklahoma City Okla. Oklahoma City Okla. Okmigee, Okla. Since the publication in the February 1st issue of the Air Corps News Letter of the list of candidates selected by the Chief of the Air Schaller, Otto Henry Pittsburgh, Pa. Williams, William Frederick Corps for appointment as Flying Cadets, to begin training at the Primary Flying School, Ran-dolph Field, Texas, on March 1, 1939, 59 of Hill, George Dourian "Yeadon, Pa. Providence, K.I. Larson, Nils Rodney these young men, for various reasons, chief Tyler, Charles Matthew Charleston, S.C. among which being their inability to wrest the monkey wrench from the grasp of 'Dan Cupid,'' Oliver, Harry ""Hamer SiC. Boatwright, L.T., Jr. Ridge Spring, S.C. Milner, Robert Rutherford Black, Harry Gean Memphis; Tenn. Galveston, Texas Hearne; Texas Kilgore; Texas declined such appointment. Married men are not eligible under the regulations for appointment as Flying Cadets, but Cupid bides his time and McKemie, Jack F. Byrd, Hilton Homer manages to exact some measure of revenge when Seattle, Wash. Flying Cadets graduate from the Training Center Fairbank, John Griffin Franz, J. Howard Grafton WiVa. and are commissioned in the Air Reserve. As a Morgantown, W.Va. result, the marriage license clerk in San Dawson, James Stenger St. Albans, W.Va. Antonio is generally a busy individual around Griffith, Frank T. graduation time. Because of Cupid's activities among the young Spindale, M.C. Koonce, Pvt. Swegler Henkle Battery D, 4th F.A., Fort Bragg, N.C. holdes men who had entertained the hope of undergoing flying training at the Air Corps Training Cen-Candidates selected for Flying Cadet ap ... ter, there was one instance where an entire pointment, to replace those who declined to State delegation was wiped off the original list of prospective students - West Virginia. accept same, are listed below, as follows: Connecticut's original delegation of seven Civilians Preininger, Clair B. Los Angeles, Calif. Sherwood, Frederick Herren Los Angeles, Calif. Jackson, Daniel Miles South Pasadena, Calif. students was bedly dedimated, but one lone student remaining. The candidates who declined appointment are listed below, as follows: Lee, Walter Aloysius New Haven, Conn. Foshee, Ben Crum Walls, James M. Red Level, Ala. Murray, Burton W. DeFuniak Springs; Ha. Magazine, Ark. King, James Neil Gainesville, Fla. Clinch, Downey C. Grass Valley, Calif. Kiser, Marion J. Quitman, Ga. Sacremento, Calif. Goff, Boyd Matthew Toccoa, Ga. Yow, Jones duBignon, Jr. Price, Jerald Clifton Fort Collins, Colo. Ensign, Lewis Plank Sizer, Richard Lucius Boise, Ideho Ciccalone, Thomas James East Hartford, Comm. Champsign, Ill. Chicago, Ill. Olshesky, John James East Hartford, Conn. Lacey, John William Granberg, Edwin C., Jr. Greenwich, Conn. Chicago, Ill. Divernon, Ill. Omens, Norman Harry Cavadine, Octavius John North Haven, Conn. Heggy, Edward LeRoy Boetcher, John Edward Sutliffe, Thomas Henry Stratford, Conn. Martin, Leonard Melcher Atwell, Lawrence Austin Newton, Mass. Wakefield, Mass. Waterbury, Conn. Hill, James Wilborn Washington, D.C. Bohn, John W., Jr. Webster Groves, Mo. Macon, Ga. Adams, Benjamin C. Lexington, N.C. Brannock, J. Frank Boise, Idaho Boise, Idaho Pocatello, Idaho Bevington, Frank Clark Poulson, Paul Herman, Jr. Davis, John Elmer, Jr. Barnsdale, Okla. Alexander, Eugene S. Stillwater, Okla. Large, Jackson Douglas Peck, Gaillard Ray Tonkawa, Okla. Bankman, Jack A. Chicago, Ill. Jowdy, William John Jack, Lewis N. Goble, Ore. Priestly, Ralph B. Chicago, Ill. Lansdowna, Pa. Floyd, Harold Marcus Tamalco, Ill. Dorn, George Eldred Greenwood, S.C. Swinehart, Marion Louis South Bend, Ind. Flanderesu, S.D. Abilene, Texas San Antonio, Texas Chamberlain, Charles Henry Terre Haute, Ind. Buis, Kenneth Leon Fletcher, Waldo Brown, Jr. Underwood, Robert W. Terre Haute, Ind. Beers, George Albert Eyres, William Gordon Trigg, William J. Ames, Iowa Noble, Gail Lewis Burlington, Wis. Hedrick, Iowa Short off Hornick, Iowa West Bend, Iowa Columbus, Kans. Wichita, Kans. Parsley, Harold Vincent Hall, Conway Scott Little Rock Ark. Ford, Eugene Matthew Martin, John Byrd Atlanta Ga. Steele, Gordon K. Porter, Edward F., Jr. Chicago, 111. Lowe, Robert Clyde Welsh, Albert M. Dalton City oll. Bowling Green, Ky. Jefferson Town, Ky. Louisville, Ky. Arabi, La. Jenkins, Charles Frank Frazier, Thomas W. Howorth, Arthur James Dyer Ind. Miller, Richard Ewing Fort Wayness Ind. Lensing, William E. Hawthorne, Earl Coe Abilene; Kans. Bynum, Richard E. Broidy, Vinton Edward Baltimore, Md. Norwood, Albert M. Opelousas, La. Kaliher, Russell E. Bemidji; Mim. Dow, Thompson Faxon South Portland, Me. DeKin, Donald G. Ilion, N.Y. Sullivan, John G. Brighton, Mass. Sutton, James Harold Boyle, Paul C. Charlotte, N.C. Crust, Robert W. Brainerd, Minn. Farger N.D. Cooke, Chester Guy, Jr. Oxford, Miss. Ruhf, Richard C. Allentown, Pa. Hosford, Jack Cunningham Columbia, Mo. Parks, Russell Nixon Philadelphia [Pa. (Continued on Page 19) McCorkle, Leon Marshall Salisbury, Mo. Griffin, Louis G. Larson, Robert Sherman Thompson Falls, Mont.

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COLONEL: FOBINS ASSIGNED AS COMMANDANT OF THE AIR CORPS TRAINING CENTER.

By the Materiel Division Correspondent

Orders effective February 20, 1939, relieving Colonel A. W. Robins from duty as Chief of the Materiel Division, removed one who during his term of service had become friend as well as executive to those with whom he came in daily contect.

As a token of the esteem in which he was held by the City of Dayton, as well as by his associates of Wright and Patterson Fields, a delegetion of Dayton civic and business leaders called upon Colonel Robins to express regret at his leaving end wish him future success. That Mr. Orwille Wright, the first person in history to lift an airplane in powered flight, formed one of the delegation, lent to the occasion as added honor and dignity. Colonel Robins' new assignment is that of Commandant of the Air Corps Training Center, with headquarters at Randolph Field, Texas.

Colonel Robins came to Wright Field as Brigadier General, Chief of the Materiel Division, on April 4, 1935. His arrival was delayed a short time after his appointment in order to enable min to complete his course of study at the Army War College. His four-year appointment as Brigadier General expired January 31, 1939. During his years of command, none knew him who was not impressed with his attitude of friendliness toward the personnel of the Division and his sense of absolute justice and fairness. Before leaving he sent a letter of appreciation to all employees for the cooperation he had received. It is hoped that his future duties will often bring him back as a visitor. Colonel Robins left Dayton for his new post on February 24th.

The coming of Brigadier General George H. Brett as the new Chief of the Materiel Division was heralded by the pleasantest forecasts concerning him as executive and associate. He has many Triends among those with whom he has come In contact on his various visits at Wright Field. Also, many civilians at the Division served under him from 1924 to 1927, when he was on duty at Fairfield, Ohio. These have the highest praise both for his ability and his personality. Many who have not come in contact with him have received the impression of a vigorous and cooperative leader. On the whole, the Materiel Division is made

up of a group of officers and civilians who have chosen their work because they like it and are enzious to give the best service in it. such a group capable leadership is a blessing. That the requirements of such leadership, espeially at the present time, are most exacting and difficult to meet is deeply appreciated. The Division hopes that General Brett will find cheerful cooperation awaiting his every need, and that his stay at Wright Field will be a happy one.

General Brett's history, including an enviable war record, is too well known to need reviewing at this time.

Changes in New Class at Randolph Field (Continued from Page 18)

Lee, James A. Brookings, S.D. Yeager, William Henry, Jr. San Antonio, Texas Whitman, John R. Sweetwater, Texas Whitman, John R. Gill, J. Weston Richmond, Va. Larsen, Wis. Furman, Robert B.

Enlisted Men, Air Corps

Privates

Bedford, Boyce H. Mobile, Ala. Hqrs. and Hqrs. Squadron, Chamste Field, Ill. Proffatt, Victor J. Los Angeles, Calif. Hqrs. and Hqrs. Squadron, 7th Bombardment Hqrs. and Hqrs. Group, Hamilton Field, Calif. Group, Hamilton Field, Calif. Worcester, Mass.

Poplawski, Henry Richard 3rd Air Base Squadron, Selfridge Field, Mich. Culver, Theodore Grant Lincoln, Neb.

3d Staff Squadron, Ft. Leavenworth, Kans. Kaufhold, Frank George Hackensack, N.J.

Base Hors. and 2nd Air Base Squadron, Mitchel Field, N.Y.

Faulkner, George E. Bugene, Ore. 1st Weather Squadron Det., Base Hars. and 5th Air Base Squadron, Hamilton Field, Calif.

Croom, Wendell C. Kershaw, S.C. Hors. and Hors. Squadron, Randolph Field, Texas.

Albert Sisseton, S.D. Kris, 2nd Weather Squadron, Selfridge Field, Mich.

Salt Lake City, Vtah Cook, Seth Rea Hars. and Hars. Squadron, 7th Bomb. Group, Hamilton Field, Calif.

Boyd, James Kenneth Langley Field, Va. 11th Air Base Squadron, Langley Field, Va.

Enlisted Mon, Other Branches of Service Schoknecht, Edward H., Jr. 6th Signal Service Company, Selfridge

Field, Mich.

According to the latest information available in the Personnel Division, Office of the Chief of the Air Corps, the March 1, 1939, Class at the Air Corps Primary Flying School, Randolph Field, Texas, comprises a total of 342 students, of which number 291 are from civil life and the remaining 51 are enlisted men of the Regular Army.

WRIGHT FIELD ENGINEERS HONORED

Word was received on February 21st at the Air Corps Materiel Division of the award of the Manly Memorial Medal to two members of the Division, Messrs. Opie Chenoweth and A.L. Berger, as co-authors of a paper entitled "Supercharger Installation Problems." This paper was selected by the Society of Automotive Engineers for the honor as whe wigning contribution for 1938. The paper was originally presented at a meeting of the Society on June 14, 1938, at White Sulphur Springs.

The Manly Medal is awarded each year by the Society of Automotive Engineers to the author of the best paper "relating to theory or practice in the design or construction of, or research on, aeronautic power plants or their V-7988, A.C.

parts or accessories."

Messrs. Chenoweth and Berger are engineers of long standing and wide experience in the Power Plant Branch of the Materiel Division, and the distinction bestowed upon them was most gratifying to the Division as a whole. Mr. Berger has been with the organization since April 16, 1919, and Mr. Chenoweth since August 27, 1923.

With this award Wright Field is honored for the third time in a decade, S.D. Heron having been the recipient in 1929 for the outstanding paper presented during 1928 on aircraft fuel investigations, and F. L. Prescott, in 1932, for a description of his work on engine pressure indicators on test engines.

The Medal perpetuates the memory of Charles M. Manly, a pioneer in the adaptation of the internal combustion engine to aircraft use.

The telegram announcing the award was sent by Mr. J.A.C. Warner, President, Society of Automotive Engineers.

ENLISTED MEN COMPLETE WEATHER SCHOOL COURSE

The third class of the Air Corps Weather School was graduated at Patterson Field, Fairfield, Ohio, on Friday, February 24, 1939, concluding a six months' course in modern meteorology and the allied subjects of mathematics and physics.

physics. The three students attaining the highest standing were: first, Private, 1st Class, Jacob Follmer, Little Falls, N.Y.; second, Private, 1st Class, Thomas C. Cobb, Jr., Nixon, Texas; and third, Corporal August W. Throgmorton, Mayfield, Ky.

Private Follmer had four years' prior training in Aeronautical Engineering at the University of Michigan. He is being retained at the Weather School as an instructor.

Private Cobb had one year's prior training at St. Mary's University, and will be returned to Kelly Field, Texas, as a forecaster.

Corporal Throgmorton is a graduate of Western Teachers College, and completed two terms at the University of Indiana. He is also a graduate radio operator and radio mechanic of the Air Corps Technical School at Chanute Field, Ill. Corporal Throgmorton is under orders to report at the Air Corps Training Center, Randolph Field, Texas, for forecasting duty.

Twenty-five enlisted students completed the course. A new class started on February 27th.

CAPTAIN MCDARMENT JOINS UNIVERSITY FACULTY

Friends of Captain Corley P. McDarment, who retired as an Air Corps officer on September 30, 1936, for disability in line of duty, will be interested to learn that he was recently appointed as head of the public speaking department of Columbus University's Junior College, Washington, D.C.

Captain McDarment served as an enlisted man and as a commissioned officer during the World War, being appointed a second lieutenant in the Air Service on August 22, 1918. Following his retirement from active service, he became a writer and lecturer.

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HAWAIIAN PURSUITERS FLY OVER MIDDLE ISLANDS By the Wheeler Field Correspondent

Twelve red-cowled airplanes of the 6th Pursuit Squadron taxied out on Wheeler Field, T.H., recently, and took off by elements, headed for Makapun Point to initiate new members in their first inter-iskand flight around and over the 'Middle Islands."

A few minutes later, Ilio hove into view, and it wasn't long until we zoomed over the vast pastures and pineapple fields surrounding Homestead Field on Molokai. After landing and taxying back, we took right off to drag the field at Kalaupapa, the home of the leper colony.

Flying besides the vertical cliffs, their tops hidden in the clouds, was conducive to illusions. Hundred of waterfalls laid their narrow silver bands on the face of the lush greenery, hiding the gray and brown-black lava cliffs. Soon the cliffs seemed so near that one felt one could reach out and touch them. They seemed like mounds. One had to look at the altimeter twice before believing that one was well over 1500 feet high and that the clouds above were hiding the top of those friendly "little" cliffs.

Then came Brant, and one wondered how anyone could land on the side of that mountain. Overshoot the field and - well, one had better be able to swim. Another few minutes of sea crossing, and we were buzzing Hawea Point on Maui. Then, with the sea on one side and densely overgrown mountains and ravines on the other, we continued on around to Hana, with more buzzing to look the field over. Kolekole Peak reared its head above the Iow strata: of white cumulus clouds, so up we went. Rare are the occasions when one can fly over Haleakala and examine this kangaroo crater with all its baby craters tucked into its pouch.

Wind whistled about our ears as we passed over the Summit House and zoomed down on Maalaea. There was just a jump or two from there to Lanai, where we brushed our wheels through the pineapple bush tops to land in the first third of the field.

After a cigarette end a good old seventh inning stretch, we were off for Oahu and home. Oahu looked good, too. So the grass isn't always greener on the other side of the fence or islands.

Special Orders of the War Department announce the relief of Lieut. Colonel Clinton W. Russell, (Air Corps), General Staff Corps, from assignment to the War Department General Staff and from duty in the Office of the Chief of Staff, Washington, D.C., and his assignment to the General Staff with troops and as Chief of Staff, GHQ Air Force, Langley Field, Va.

Lieut. Colonel Joseph T. McNarney, Air Corps is relieved from assignment and duty with the 7th Bombardment Group, Hamilton Field, Calif., and is assigned to duty in the Office of the Chief of Staff; Washington, D.C.

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The chief purpose of this publication is to distribute information on aero-nautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation.

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TI	IE	WRIGH!	BROTI	IER	S AS	I	KNEW	THEM
By	Co	lonel	Frank	P.	Lahr	۵,	Air	Corps

Introduction

It was my pleasure to know the Wright Brothers in the earliest days of the Air Corps, though my first meeting was en-tirely unofficial and in no way connect-ed with the service. In the summer of 1907, while recuperating from a long illness, I was lying in one of those beautiful gardens at St. Germain, out-side of Paris, when my father walked in the gate with Wilbur and Orville Wright and there began a friendship that was to continue for many years.

Father's first contact.

It may be interesting to know how my father knew the Wright Brothers. It is a rather long story, but briefly put is as follows: In December, 1905, while living in Paris, he heard a report that the Wright Brothers of Dutter Object the Wright Brothers of Dayton, Ohio, had actually flown in a heavier than air ma-chine. He cabled to a relative in Ohio, as follows:

"Verify what Wright Brothers claim, necessary go to Dayton, prompt re-sponse cable."

The message was forwarded and deliver-ed in Chicago in the night, but was a puzzle. However, my uncle vaguely re-called having heard of the Wright Brothers and their flying machine in Dayton, so he wired and eventually visit-ed them in Dayton, interviewed witnesses of the flights, talked at length with the Wright Brothers and made a full re-port in writing to my father in Paris. This report was presented at a meeting of the Aero Club of France, but it fell on skeptical ears, although it did lead to a violent discussion lasting late to a violent discussion lasting late into the night. My father then published the report in the Paris edition of the NEW YORK HERALD, where it was given the heading "Flyers or Liars." This led to more discussion, more doubts, but did lead to a direct contact with the Wright Brothers. So it was natural that when they came to Paris in the summer of 1907, he should see them and learn the facts first hand.

Washington, 1908.

My next meeting with the Wright Bro-thers was in Washington. Having been de-tailed to the Signal Corps for

aeronautical duty in September, 1907, and directed to make not to exceed two visits to London and Berlin for the purpose of investigating aeronautics, I purpose of investigating aeronautics, i complied with my orders, extending my investigations to Brussels and Freder-ickshafen as well, then reported to the Chief Signal Officer, General Allen in Washington, the last of 1907. He directed me to report to Captain C. deF Chandler, in charge of the Aeronautical Division of the Signal Office which he had organized on August 1st of that had organized on August 1st of that year.

Signal Corps Specifications On December 23, 1907, invitations were sent out by the Chief Signal Offi-cer for bids for a heavier than air machine of the following specifications: carry two persons having a combined weight of 350 pounds, sufficient fuel for a flight of 125 miles, remain continuously in the air for an hour with two persons during which time it must be steered in all directions without difficulty and at all times under per-fect control and equilibrium, after which it shall return to the starting point and land without any damage that would prevent it immediately starting would prevent it immediately starting upon another flight; have a speed of 40 miles an hour in still air, with a bonus of 10% for every additional mile up to 44 and a reduction of 10% of the purchase price for every mile below 40, but below 36 it would be rejected. The machine was to be accepted only after successful trial flights, including prescribed tests of its speed, endur-ance and all other requirements of the ance and all other requirements of the specification. Three trials were to be allowed for speed and three for endurance, and both tests, the expense of which must be borne by the manufacturer, were to be completed within 30 days after delivery of the apparatus.

The machine should be quickly and easily assembled and taken apart and packed for transportation in army wagons and then reassembled on the field and put in operating condition in about one hour. It should be able to ascend or descend in any country encountered in field service, landing without requiring a specially prepared V-7993, A.C. -1-

spot and without damaging its structure. The starting device should be simple and transportable and another device should be provided to permit safe descent in case of an accident to the propelling machinery. The whole machine should be machinery. The whole machine should be sufficiently simple to enable an intelli-gent man to become proficient in its use within a reasonable time, and the price of the machine must include the instruction of two men in its handling and operation;

The general dimensions were to be de-

The general dimensions were to be de-termined by the manufacturers, who must submit with their proposals: (a) Drawings to scale showing the gen-eral dimensions and shape of the ma-chine they propose to build; (b) the speed for which it is designed; (c) total surface area of the supporting planes; (d) total weight; (e) descrip-tion of the engine used for motive power; (f) material of which the frame, planes and propellers were constructed.

planes and propellers were constructed. On February 1, 1908, we opened the bids in the Office of the Chief Signal Officer and found the results not only interesting but in many cases highly amusing. One man sent in a rough sketch on a piece of wrapping paper and said his machine would comply with the specifications. Many were unable to meet the requirement of enclosing 10% of the purchase price. One of those who failed wrote: "Where there is money there are no brains, and where there are brains, there is no money." He presumably came in the latter class.

Of the many proposals received, three appeared reasonable and were accepted by the Board:

one from Mr. Scott, of Chicago, who offered to build an airplane complying with the specifications for \$1,000.00;

one for \$20,000.00 from Mr. A.H. Herring, of New York, who had done a considerable amount of experimenting and claimed he had already made numerous flights

The third, for \$25,000.00, was from the Wright Brothers.

Mr. Scott replied that he appreciated the honor of having his bid accepted but that he could go no further as he was unable to finance the construction of his machine.

The failure to deliver the Herring machine is a long and amusing story that I will not go into here.

Fort Myer, 1908

In due time the Wright Brothers appear. ed in Washington to arrange the details and select a place for the demonstration of their machine. The drill ground at Fort Myer was decided upon, a shed was erected, the pylon and starting track were set up at the upper end of the field and, late in August, Orville ar-rived with the machine and his mechanic, Charley Taylor. Here began an intimate association with Orville which was to continue through the daily tuning up

flights lasting to September 9th, when I had the thrill of my first ride, lasting about six and a half minutes. Major Squier, of the Signal Corps, was taken up as a passenger a few days later, followed on September 17th by my friend and associate, Lieutenant Tom Selfridge, U.S.A. This flight terminated in an unforta-

nate accident in which Mr. Wright was Very seriously injured and Lieut. Self-ridge lost his life, the first of many victims who were to sacrifice themse Pves in the advancement and perfection of the airplane. We put Mr. Wright in the hospital at Fort Myer, where he lay for some weeks under the devoted care of his sister, Katherine, who came on from Dayton immediately. In my frequent visits to the hospital, I came to know and appreciate the sterling character of this third member of the team who was with them through the visisioudes of those early days, sharing their hopes and disappointments.

Fort Myer, 1909

The following summer, both Wilbur and Orville Wright came to Fort Myer with a new machine, followed shortly by Katherine, and the program of the preceding summer was resumed and carried to a successful conclusion.

By this time public interest was aroused to such an extent that every afternoon large crowds visited the field. Prominent visitors were numera ous, including President Taft; members of the cabinet, foreign ambassadors and military attaches, and many other prominent people of the capital.

The Wright Brothers had come to Wash-ington for a purpose, that was, to com-plete their contract with the Signal orps and deliver their machine. With their characteristic determination; they stuck to this purpose. The 1909 airplane with its maximum speed of 427 miles per hour was not so maniable in the high winds which mean so little to our present day machines with their normal speeds of 180 to 250 miles an hour. Flights were made only in light winds and, while large crowds and high officials were often disappointed, the Wrights were adamant in their decision not to fly unless conditions were just right

Earlier that year, when Wilbur was flying at Pau, in southern France, t the story is told of an American millionaire who went there and announced he had come to make a flight. When told that Wilbur was not taking passingers, he replied: "Oh, I dare say that can be arranged." He left Pau without having arranged." his ride.

My collection of photographs of those days, some 29 years ago, show styles that I am sure would provoka smiles from the feminine sex, and the hats while entirely different, were no it wonderful than the ones now worn by V-7993, A.C. -2-

them. For the speed tests we set up a series of small captive balloons over a fivemile course from Fort Myer to Alexandria, and on July 30th, Lieut. Foulois as passenger accompanied Orville Wright on the round trip over this course to de-termine the official speed. We of the Board and Wilbur stood on the ground during the take-off, watched the machine disappear over the treetops to the south and then waited in suspense for it to reappear. Wilbur, with a stop watch, had acquirately calculated the exact moment at which he expected to see the machine reappear coming out of the south, and when it failed to do so he, as well as the rest of us, passed a very uneasy few_manents until at last it came in sight and landed safely, to the cheering of the large crowd of spectators. Then began the endurance test, in which it was my pleasure to ride with Orville one hour and 12 minutes, a World's record at that time for two passengers. College Park, 1909,

College Park, 1909. But the contract was not completed un-til two Army officers had been taught to fly. Lieutenant Frederick E. Humphreys, Corps of Engineers, and myself, were de-signated. As the drill ground at Fort Myer was too small, we searched the country for a larger and more suitable field. Many offers were made and many sites were visited, but all were reject-ed by the Wright Brothers as not meeting the regularements. One day while making the requirements. One day while making a balloon ascension from Washington, I passed over College Park, Maryland, saw a likely looking level field, later vis-

ited it on the ground, and eventually it was gented from the owners and became our training ground. On October 5th, we moved in, built a shed for the machine, set up the pylon and track, and Wilbur began our pilot training. At the end of about three training. At the end of about three hours our first solo flights. A few days later, I was even considered qualified to Carry passengers and did so, taking Light. Sweet of the Navy as my victim for a flight around the field. Wilbur was a patient and understanding Listfuctor, always ready to explain any-thing we did not understand, always ready to help us, to make easy our venture into this new field which was not too well understood by anyone at that time Between flights and in the that time. Between flights and in the evening, we had long talks on aviation in general, on the Wright machine in particular, and on the future of avia-tion and flying and, while we had great confidence in its future, I admit that in our wildest dream we did not foresee the speed arfair contring deposity and the speed, safety, carrying capacity and long tange of the 1938 type of airplane. My first visit to Dayton and the Wrights' home came in 1909, when I accom-panted General Allen, the Chief Signal

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Officer, to a two-day celebration in which the nation, the state and the city vied in showing their admiration and enthusiasm for the two pioneers of flight. Speeches, dinners, bands, pa-rades, and finally the presentation of three medals capped the climax of the celebration. One medal from Congress was presented by General Allen; one from the State of Ohio was presented by the Governor, and one from the City of Dayton was presented by the Mayor. The attitude of the two brothers was typical throughout the two days. Their pleasure, their appreciation were plainly apparent but above all was their modesty, which might have described them under the shower of praise and acclaim, had it not been their outstanding, inherent quality.

Dayton, 1911. My next contact with the Wrights was in 1911, when it was my privilege to spend a few days as a guest at their home in Dayton. During this visit I was to have a new experience, that of piloting an airplane under Orville's instruction, equipped with wheels instead of the skids I was accustomed to. This came in good stead the following two years, as three Wright machines were sent to me in the Philippines, where I used them in giving flying instruction to officers of the Army in 1912 and 1913. The 1911 visit was, perhaps, the highlight of my association with the Wrights and the one on which I look back with the happiest memories. It was a picture of the American home and family of which we are so proud and which fosters those qualities that pro-duce the typical American citizen, the one who places culture, family, friends and the higher things of life above the trivial and passing interests which we are inclined to exaggerate in this age of materialism.

An appreciation.

The question was often put to me: "Which one of the two brothers really invented the airplane?" My answer is neither one, but the two working to-gether, checking each other, arguing out their problems step by step. Orville once expressed it when he

said they would start to thrash out a question, one arguing on one side and one on the other, and before they finished they had changed sides in the ar-gument. They approached all their problems from a strictly scientific and mathematical angle, never leaving any-thing in doubt, and as one of them once said: "If we knew what was wrong, we could eventually find the solution." The greatest difficulty was in finding out just what was wrong. That brings back a rather amuging incident that oc-coursed at Fort War during the 1909 curred at Fort Myer during the 1909 flights. Several times the airplane was put on its cradle on the track, the motor speeded up, the weight released, V-7993, A.C. .3_

and the machine shot forward and left the track only to lose speed and come to the ground. Finally, Wilbur and Orville left the crowd, went out on the field by themselves, put their heads together and evidently were having a profound discus-sion. Somewhat awed, we remained at a distance to watch the proceedings thinkdistance to watch the proceedings, thinking it was something very serious and technical. Finally, one of the brothers walked over to the machine, looked at walked over to the machine, looked at the spark lever and saw that it had slipped back due to lack of friction, slowing the engine down and causing the machine to lose its flying speed. It was all so simple when they found the difficulty, but I can imagine their ex-periments were full of just such occurrences

The Wrights never made any extravagant claims for what their machine could do. In their first and unsuccessful negotia-tions with the War Department, and in the later ones which finally led to its purchase, they asked only for remuneration based on performance and were ready to demonstrate its capabilities before receiving a penny in payment.

Simplicity and order marked their pro-ceedure and their lives. The camp at Kitty Hawk was a wooden shed large enough to house the machine and their living quarters, and a photograph of the interior shows it was a model of which any housewife might feel proud. At times the nights on the coast of North Carolina were cold, but they were well supplied with bedding. They had their own expression for temperature; that is, a "one, two or three blanket night," depending on the thermometer reading.

No question put to them, however unim-portant it might seem, failed to have careful consideration and a well thought out answer, and you may be sure we asked many questions.

As stated before, the Wright Brothers were primarily scientists, interested in the conquest of the air from a scientific point of view and not at all from a mer-cenary angle. When, in 1905, they had flown their machine sufficiently to satisfy themselves it had reached the practical stage, they stopped further work and set out to dispose of their invention, not to the highest bidder, but to reliable organizations or associations that would exploit it for the common good. Here was a new and revolutionary invention that was to mark the beginning of a new era in transportation, a new factor in our economic life, and while I doubt if anyone, including the Wrights, fully realized just how important it was to become and the relatively short time within which it was to prove itself, I do know that to the Wrights it meant agreat deal more than merely a means to finan-cial success. A pertinent remark of one of them has always remained in my mind: "We want to finish up with the business "We want to finish up with the business

end of the airplane so that we can go back to our experimental work."

Ed. Note: The cover featuring this issue of the News Letter embodies the reproduction of a photograph of the Wright airplane at Fort Myer, Va., in the year 1909. Lieut. Lahm, Cavalry, (now Colonel, Air Corps) is shown in front of the airplane with Mr. Orville Wright, while Lieut. Foulois (now Major General, U.S. Army, Retired) is shown at the rear of the plane with the late Wilbur Wright. ----000----

UNUSUAL NIGHT PHOTOGRAPHS TAKEN AT RANDOLPH FIELD

What is believed to be the first night aerial photograph ever made of an air-plane in full flight was released re-cently by the Public Relations Office at Randolph Field, Texas. Many pic-tures have been made at night, both by Army photographers as well as by commercial photographers, which show an airplane either landing or taking off in the illumination furnished by the field floodlights, but a picture taken at 3,000 feet above the airdrome on a moonless night had never been attempted before, according to the available information

The equipment used to make this unusual view was a standard commercially manufactured camera, a flash bulb synchronizing attachment and one flash bulb, also in general use by newspaper photographers. Three negatives were photographers. Three negatives were made during the flight, all of which were satisfactory from a technical view point.

Private, 1st Class, Air Mechanic, Leslie W. Bland, of the Randolph Field Photographic Department, was the photo-grapher, and Lieut. Hugh O'Daniel, an instructor, was the pilot of the BT-9 which was used as a photo plane. Lieut. L.R. Hughes, also an instructor at the Primary Flying School, piloted the plane which was photographed.

Special Orders of the War Department, recently issued, announced the promo-tion of Captain Donald R. Goodrich, Air Corps, to the grade of Major (temporary from February 1, 1939, and of Lieut. Colonel Harold A. Strauss, Air Corps, to the grade of Colonel (temporary), from March 9, 1939 from March 9, 1939.

War Department Special Orders also enhounce the retirement from active enhounce the retirement from active dervice, to take effect July 31, 1939, of Colonel Alfred H. Hobley, Air Corps, upon his own application, after more than thirty-five years' service, under the provisions of Section 1243, Revised Statutes Statutes. _4_

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GENERAL ANDREWS COMPLETES TOUR AS CHIEF OF GHQ AIR FORCE

Tuesday, February 28th, terminated the four-year tour 65 Asjon General Frank M. Andrews as Commander of the General Headquarters Air Force. On that date he turned over to his successor, Major General Delos C. Emmons, a well-organized, smoothly-operating unit which four years ago existed only on paper. Conceived by the Drum Board in 1933, and authorized by Congress in response to the urgent recommendations of the

Conceived by the Drum Board in 1933, and authorized by Congress in response to the urgent recommendations of the Board headed by the late Honorable Newton D. Baker, the GHQ Air Force combined in one tactical fighting unit all of the Army's scattered combat aviation in the Continental United States. It placed under the command of one man air units which up to that time had been operating under the nine Corps Area commanders.

Hailed as the greatest step forward in military aviation in this country since the World War, the existence today of this coordinated and integrated combat air unit is a tribute to the wisdom of those who urged its creation.

It stands as a monument to the ability and leadership of General Andrews, the man selected by General Douglas MacArthur, then Chief of Staff of the Army, for the task of organizing and building up this new unit of the Air Corps. Chosen over many seniors because of his outstanding and demonstrated ability as an organizer and administrator, General Andrews assumed at the outset a personal leadership of the GHQ Air Force which he has steadfastly maintained throughout his tour of duty as its Chiefa leadership which has served as an inspiration to the officers and men of his command. The heterogeneous assortment of uncoordinated units turned over to him on March 31, 1935, has been transformed into a compact and splendidly efficient combat team, a unit whose training during the past four years has been such as vastly to change the modern concept of military aviation.

General Andrews personally has taken a leading part in the development of modern standards of flying, and his early exploits in instrument flying, which at that time seemed to be unnecessarily hazardous undertakings, now appear in their true light as pioneering necessary to a type of flying which has now become commonplace. During his regime as Commanding General of the GHQ Air Force, General Andrews, in addition to his arduous administrative duties, has found time to pilot his own flagship a total of some 1500 hours, almost half of which have been at night. It was not difficult for such a com-

It was not difficult for such a commander to set up high training objectives. The example of his personal exparience popularized a strenuous routine of training which in a remarkably short time converted the GHQ Air Force into the effective all-weather unit it is today. Its splendid organization and state of training, and its readiness to go into action on a moment's notice, are tributes to a wise administration and courageous leadership. His clear concept of air defense led

His clear concept of air defense led General Andrews, from the beginning of his regime, to champion the cause of the large military airplane of the four-engined type, the splendid performance of which during the past year has clearly indicated its future importance in national defense.

On every occasion General Andrews has fought for principles which he believed to be vital to the proper development of the nation's air power. Yet withal, he has exhibited a soldierly restraint and dignity which has won for him the admiration of his contemporaries and respect of his seniors. As a result, he has been instrumental in obtaining recognition of air force requirements and principles which have led to better airplanes, facilities, and personnel; and to a better general understanding of the problems of modern military aviation.

A graduate of the Military Academy in 1906, General Andrews' first service was with the Cavalry. Since his transfer to the Air Corps in 1917, he has served in many important executive capacities. In 1934, he was detailed to the War Department General Staff, and it was while serving in this capacity as a Lieutenant Colonel that he was selected to command the newly formed General Headquarters Air Force.

General Andrews has an able successor in Brigadier General Delos C. Emmons. General Emmons, as Commanding General of the First Wing for the past three years, has had an opportunity, second only to that of General Andrews, to observe and administer to the growing pains of the GHQ Air Force. He brings with him to his new office a wealth of personal experience in the inner workings of tactical air commands of all types and an intimate understanding of the problems which remain to be solved in national air defense.

Graduating from the Military Academy in 1909, General Emmons was first assigned to the Infantry. He is one of the veteran Army pilots, for his service with the Air Corps began in January, 1917, when he began his flying training at the Signal Corps Aviation School at San Diego, Calif. The brilliant leadership and sound judgment exhibited during all maneuvers involving the 1st Wing have gained for General Emmons the respect of the Air Corps and the Army.

V-7993, A.C.

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The 4th annual small bore rifle and pistol matches for the Steve's Trophy were held recently in the indoor rifle range of the 46th School Squadron at Randolph Field. Corporal C.W. Jones, firing three courses - rifle, prone; rifle off-hand, and pistol - was the winner with an aggregate score of 257 out of a possible 300. The new champion dethroned Corporal Norman G. Hower, last year's winner. Corporal Hower finishyear's winner. Corporal Hower ed second, three points behind, with an aggregate of 254 out of a possible 300. with an Sergeant Paul H. Bangham was third with a score of 246.

The Steve's Trophy is presented annu-ally by Master Sergeant Calvin T. Steven-son for competition by members of the 46th School Squadron, Randolph Field, on their 50-foot indoor rifle and pistol It was first offered into comperange. tition in 1934, and since that time has become an annual fixture.

All firing is conducted strictly ac-cording to Army Regulations and also rules as promulgated by the National Rifle Association. For both the prone and off-hand rifle events, caliber .22 target rifles are used, while competi-tors may use either .22 caliber pistols or .22 caliber target pistols on standard

U.S. Army caliber .45 automatic frames in the pistol events. Individual competitors are charged for the ammunition used both in matches and also in practice, while the range itself, constructed in the basement of the squadron barracks, is maintained through funds supplied by the 46th School Squadron Rifle and Pistol Club.

Another trophy, known as "The Squadron Commander's Trophy," also offered annually, will be competed for during the month of March. General skill in the use of both rifle and pistol in various positions will be needed by the winner. Events in rifle, prone; rifle-kneeling; rifle standing; pistol slow fire, and pistol rapid fire are carded. Individu-al medels for the winners in the various Individual medals for the winners in the various classifications also will be offered.

In connection with the competition for the Steve's Trophy, Corporal Hower won the rifle prone medal with 97-100. Con poral Jones with an 83-100 in the off-Corhand won the medal for that event, while Private Albert L. Malok captured the pistol series with an 80 out of 100. ---000----

Two noncommissioned officers of the Air Corps were placed on the retired list, effective February 28, 1939, viz Technical Sergeant Joseph Caminske, 19th Pursuit Squadron, at Schofield Barracks, T.H., and 1st Sergeant Clarence A. Hammer, 77th Pursuit Squadron, GHQ Air Force, at Barksdale Field, La.

THE PHILIPPINES.

During the recent maneuvers in the Philippine Department, Major General John H, Hughes, in order to save about two hours' time traveling by automobile, elected to make his trip to inspect the troops on maneuvers in an Amphibian air-plane. One of the OA-4's was all ser-viced and ready for him when he arrived at Nichols Field, accompanied by his Assistant Chief of Staff, G-3, and by his aide.

The General was given the honor spat alongside the pilot, and twenty minutes alongside the pilot, and twenty manutes later they were circling the shore, where he desired to land. The bamboo stakes of the fish traps were seemingly all over the water, but finally the pilot found a place where there were no stakes, but just as he was about to set his plane down the General pointed out some more stakes under them. So he out some more stakes under them, so he circled again and finally effected a safe landing.

safe landing. The landing was made about a mile out in the water, due to the tide being out, and there was about half a mile of mud-dy tidal flats. A large banca, manned by four native carsmen, commanded by a Major of the Quartermaster Corps, with outriggers and all complete, paddled to the side of the airplane, and General Hughes and his staff left the Amphibian for the banca. The banca was paddled for the banca. The banca was paddled over to a carabao cart, which had been backed up in the water to its axles, and the three officers left the banca for the carabao cart and were transported slowly to the automobile waiting on the far shore.

Despite the several means of transportation employed, the General still saved about two hours' travel time. ------

REFUNDS TO TELEPHONE USERS IN DAYTON

The State Courts of Ohio recently made a ruling requiring the Ohio Bell Telephone Company to make certain overpayment reimbursements to resident bayment reimbursements to resident telephone users of Dayton and Oakwood, Ohio, for the period January 1, 1925, to include December 31, 1931, This amounts to about 75 cents per month per telephone, or about \$30.00 for an offi-cer who lived in either of the above cities during a tour of duty of four years at Wright or Patterson Fields. To obtain a reimbursement which offi-

To obtain a reimbursement, each officer should make a written or personal application to the Ohio Bell, Telephone Company, Dayton, Ohio, stating street addresses and the approximate dates of residences thereat.

The officer at Wright Field who called attention to the above states he has over \$19.00 due, which should buy the baby (age 18) a couple pairs of shoes. V-7993, A.C. -6-

AIRPLANE PROVES SAFE CARRIER OF FRAGILE EQUIPMENT By the Wright Field Correspondent

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The practicability of aircraft as a means of safe and speedy transportation of fragile equipment was demonstrated recently in the flight from California to Boston, Mass., of the new experiment-al, "Klystron" radio tube, developed at Spanford University.

Plans had been made to conduct demonstration flights from the East Boston Airport, Boston, Mass., during the week of February 27 - March 4 for representatives of the Civil Aeronautics Authority, the U.S. Army and the Massachusetts In-stitute of Technology.

The tube, still in the experimental stage of development, is a sensitive and valuable article and requires considerable associated equipment, such as power supply, yoltage regulator, and high vacuum pump. It is capable of generat-ing large powers on extremely high fre-quencies and will eventually be used, it is believed, in solving many present aircraft problems, such as those con-nected with instrument landing systems, absolute altimeters, and marker beacon transmitters. When packed for transpor-tation, the total weight of this equip-ment was 500 pounds. Because of the tube's fragility, the means of transportation in which it When packed for transpor-

would be least subjected to jars and rough handling was desired. The air-plane was decided upon as the chosen The aircarrier.

Arrangements were made with the U.S. Army Air Corps interdepot transport service to pick up the tube and equip-ment at Moffett Field, Sunnyvale, Calif., From there it was flown to Patterson Field, O., via Sacremento, March Field and Duncan Field, Tex. At Patterson Field the equipment was carefully un-loaded and transported to Wright Field by Army truck, where it was reloaded aboard the Aircraft Radio Laboratory From Wright Field the equipairplane. ment was flown directly to Boston and delivered safely to the Massachusetts Institute of Technology officials, the conclusion of the demonstration flights in Boston, the "Klystron" was again placed aboard the Aircraft Radio Laboratory airplane and returned to Wright Field.

At each unloading of the "Klystron" tube from the airplane, the equipment was found to have suffered no damage from vibration, jars, or other hazards. It is believed that no other method of transportation at present available could have offered such quick and safe transportation service.

AIR RESERVE AND NATIONAL GUARD OFFICERS ATTEND TACTICAL SCHOOL

The first Special Class for National Guard and Reserve officers ever to be conducted at the Air Corps Tactical School, Maxwell Field, Ala., was successfully concluded with the graduation exercises on March 3rd. The class consisted of 13 Air Corps National Guard offi-cers and 7 Air Corps Reserve officers. Instruction began on January 9th, and the program consisted of practically all the subjects covered in the regular course. The scope of instruction, how-ever was considerably abbreviated The class consistever, was considerably abbreviated, Light, Colonel Leo A. Walton, Director of the Department of Command, Staff and Logistics, was Director of this Special

Logistics, was Director of this Special Course. In view of the limited time available to cover all the desired instruction, the students of this class had to attend classes each morning and on at least two afternoons per week. It was quite a grind, but the entire class showed an excellent spirit in the way it tackled the difficult program, and the students were always willing and anxious to attend any shiftional hours of instruction which were arranged for their benefit. Their main regret at the close of the course was that their tour of duty for

the course could not be extended for at least another month. The following were members of the class, and all received certificates of graduation from the Commandant, Colonel Millard F. Harmon, Air Corps: Reserve Officers Captain Bayard B. Borden, N.C.; 1st Lieuts. Henry C. Diltz, Mo.; Winsor Harlow, Mass.; Andrew I. Ivanoff, N.J.; Earl H. Jacobson, Calif.; Captein Matt A. Microire

Captain Matt A. Nieminen, Minn.; 1st Lieut. Robert K. Urban, Texas. <u>National Guard Officers</u> Lieut. Colonel John V. Dallin, Penna. Lieut. Colonel John N. Jeffers, Calif.; Major Eldo A. Peterman, Calif.; Captaing Harny W. Generous. Conp. Major Lico A. reterman, Call.; Captains Harry W. Generous, Conn.; Rupsell C.A. Larsen, Calif.; Claude A. Owen, Wash.; Donald L. Provost, N.J.; Melville C. Robinson, Mich.; Charles C. Scott, Texas; Gilbert N. Swett, N.J.; 1st Lieuts. Leo Katzman, Mich.; Bradford A. Shaw. Mass.: Alan M. Bradford A. Shaw, Mass.; Alan M. Thompson, Mass.

---000----Colonel Thomas G. Dobyne, Department Inspector General, conducted on Febru-ary 23, 1939, the Annual Administrative Inspection of the Panama Air Depot. V-7993, A.C.

NONCOMS. HONORED ON EVE OF RETIREMENT

A Stag Party to celebrate the retirement of three Bolling Field noncommis-sioned officers, Staff Sergeants Hugh Duffy, Thomas A. Standeven and Joseph Mathleson, was held at that field on the evening of February 27th.

The exercises were opened with the in-troduction of the Commanding Officer, Lieut. Colonel F. E. Galloway, Air Corps. by Warrant Officer Charles Maylon.

Colonel Galloway gave a short talk, in which he congratulated the retiring noncommissioned officers on their records in the service and their retirement. He

then introduced the Chief of the Air Corps, Major General Henry H. Arnold. During General Arnold's talk, he men-tioned the Air Corps Expansion Program and stated that the intention was to double the number of simplement officer double the number of airplanes, officers and enlisted men, which would mean practically a complete reorganization of the Air Corps. General Arnold congratulated the retiring noncommissioned officers, and on behalf of the Bolling Field per-sonnel presented each with a beautiful

Hamilton watch and chain. Lieut. Colonel William Ord Ryan, Air Corps, who until recently was the Commanding Officer of Bolling Field, also spoke briefly and congratulated the noncommissioned officers.

Among others present were Major Charles P. Prime, Executive Officer; Captain H.M. Turner, Commanding Officer of the Base Headquarters and 14th Air Base Squadron; 1st Lieuts. Lewis R. Parker, Commanding Officer, 1st Staff Squadron; Ralph Rhudy, Commanding Offi-cer of the 2nd Staff Squadron; and Eugene H. Beebe, Aide to the Chief of the Air Corps.

The retirement exercises were followed by a buffet dinner which was enjoyed by everyone.

Bolling Field establishes commendable record handling transient aircraft.

During the calendar year 1938, the Transient Aircraft Hangar personnel at Bolling Field, D.C., established a very commendable record in the handling of Visiting aircraft.

The crew is under the leadership of 2nd Lieut. Wilkie A. Rambo, Air Reserve, and Technical Sergeant Robert B. Norris, and consists of three noncommissioned officers (Sergeants E. T. Upczak, A.H. Robertson and Corporal W.S. Reese) and ten privates. All personnel assigned to the Transient Aircraft Hangar are members of the Base Headquarters and 14th Air Base Squadron.

During the past calendar year they have handled a total of 3,362 airplanes of practically every type operated by the Air Corps, and completed seventy-six 20-hour inspections, thirty-two 40-hour inspections and two 80-hour inspections.

On numerous occasions individuals have expressed their appreciation of the efficient manner in which their airplanes have been handled by the formation of the forma ---000----

GENERAL FRANK INSPECTS 18TH PURSUIT JELL. GROUP. ວະດະປະດາພ

Brigadier General Walter H. Frank, Air Corps, Commanding the 18th Wing Air Corps, witnessed on February Bud an aerial bombing and gunnery mission performed by the 18th Pursuit Group, Wheeler Field, T.H., against rubber raft targets anchored several intley out at sea. After dropping their bombs, it the Pursuit pilots returned to strafe the targets with machine gun fire. 38W When the flight returned to Wheeler

Field, the planes were lined up for a inspection of the combat crews by the General Frank, who was accompanied by Colonel William E. Lynd and staff ---000----

EFFICIENCY STREAMER FOR 19TH PURSUIT

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At a ground review, given at Scho-At a ground review, given at scal-field Barracks, T.H., on February 3, 1939, the 19th Pursuit Squadron receiv-ed the Efficiency Streamer for being the most efficient squadron in the 18th Pursuit Group during the year, 1938, At the end of each year, a careful aback is made of the records of the

check is made of the records of the four squadrons comprising the 18th Fur-suit Group. The record of the 19th Pursuit Squadron was of such merit that it was also included as one of the ten most efficient military units in the Hawaiian Department.

Captain James A. Ellison, 19th Pursuit Squadron Commander, was presented with the streamer by Major General Charles D. Herron, U.S. Army, Depart-ment Commander, after which the Squadbolla ron passed in ground review, . 23711

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ACKNOWLEDGMENT

The pen and ink drawing of Colonel Frank M. Andrews, Air Corps, which t faces the article on page 5 of this issue of the News Letter, giving and brief resume of his accomplishments as Commanding General of the GHQ Airton Force, is the handiwork of Sergeant Frank J. Lorenz, of the Headquarters and Headquarters Squadron, GHQ Airton Force, Langley Field, Va.

Readers of the News Letter will recall the drawings by Sergeant Lorenz which featured the cover page on several occasions in the past. - CWel'express our appreciation to the Sergeant for his very helpful cooperation; V-7993, A.C. -8 -

A P-264 GETS ITS PANTS WET By the Albrook Field Correspondent

The following is an account of the water landing of a P-26A type airplane in Panama by 2nd Lieut. William W. Jones, Air Corps. on February 13th:

While engaged in formation firing on a water target, the engine failed and the pilot was left with only his better judgment and four hundred feet of altitude. While the landing was undoubtedly a success, Ligut, Jones is convinced that the alternative of the parachute would have been better under different circumstances and at a higher altitude.

"Recovering from a dive on a water starget," Lieut. Jones stated, "the motor in my P-26A failed. After checking my instruments and altitude I realized it was to be a water landing. Rebuckl Rebuckling strong trade wind, directly towards shore, I rolled down full flaps at about fifty feet and landed into Panama Bay in a full stall. "My first sensation was going deep

down under some very salty water. I up buckled my belt and scrambled out only I un-

to have a bad fright when my chute caught on some part of the cockpit - still un-der water. Reaching back, I pulled it free and groped for the surface, which was much nearer than I thought. All I could see was the last half of the ship pointing straight up and losing altitude fast, Inflating my vest, I swam over and climbed up on the trailing edge of the wing which stood like the edge of a wing which stood like the edge of a sharp knife about a foot out of the

mater, There I freed my parachute and slid back into the water. I swam a few yards away and, with a lump in my throat, watched my little airplane sink quietly -out of sight, leaving me very much alone in a very wide expanse of tossing white

Realizing I would be hard to see from the other airplanes of the formation, I pulled the rip cord of my floating parachute, but the silk, instead of flaring out in a big white circle, pfomptly sank and began to tangle around my feet. Af-ter a few minutes, I swam away from it and left it to its fate. At about this time is began to remember the tales I'd heard about sharks as long as the mine planter launch. A small cut over my eye cansing drops of blood to fall into the water, I expected any minute to be ap-proached for dinner. Too, I had seen no boats of any description for miles, and norflying boats were readily available. The prospects looked rather dim, so if -worse came to worse I might be able to **Swim** to; shore.

"Intremoved my shoes and, with a bad big of sentiment for my best uniform dress shoes, I cast them off and started in easy stages for shore, meanwhile keep-ing a sharp watch for Taboga Bill (long-est of the launch-long sharks). It was

close to three miles in to shore and against the wind, so my progress against the waves was not only slow but quite tiring.

"To make matters worse, I had become lost from the searching planes and I had to watch them circle away out beyond me, and occasionally passing within a stone's throw without my being seen. If they couldn't see me among all those whitecaps and waves, I felt certain no rescue boats could - and the shore was still only a mirage in the distance.

"After about a hald hour of this, I began to get a bad chill, as the water at this time of year is quite cool around Panama. I could feel my leg muscles and even my stomach muscles trying to tie themselves into very hard knots. And that, coupled with frequent sloshes of salt water in my lungs, caused me some unhappy speculations as to consequences in case my life-vest sprang

a leak. "At length, Lieut. Freddie Smith, in an A-17, picked me up and waggled his in wings in response to my waving, and my feeling at that point was closely akin to that of a starving man sitting down to a lunch on the house. After that I had plenty of company with other air-planes, none of which could help mater-ially, but could aid in directing a boat to me. In a few minutes a P-26 came straight for me and zoomed up, followed soon by another. Looking back in their direction, I saw one of the prettiest little white speed boats a man ever saw.

"It soon came alongside and I gaily tried to climb aboard, but it was only a useless gesture, as I had to submit to the ignominy of being pulled bodily over the side. I was immediately seized with a great nausea and headache, which passed after I had lain in the sun awhile and ceased shivering. I learned that it was a police beat and, being the closest to the crash, it had been hailed with makeshift signals by Lieut. Roy Shores, who had been in my formation. The time indicated that I had been in that cold water one hour

and five minutes. "Yes, you can land in water - if luck is with you. But don't try it unless you have a hard head that won't get knocked unconscious when you hit, and there is a decided lack of altitude. Above all - don't fail to wear a sound life vest. I'm framing mine."

Recent orders from the War Department relieved the 120th Observation Squadron, Colorado National Guard, from attachment to the 45th Division and attached the Squadron to the 24th Cavalry Divi-sion. "It is believed," declares the News Letter Correspondent. "that the summer field training for the Squadron will be at Boise, Idaho, June 10 to 24." V-7993, A.C.

The important task of keeping Langley Field's flying personnel physically fit at all times has always been one of the leading purposes of the Station Hospital, it was declared by Colonel Irwin B. March, Senior Flight Surgeon of the Virginia Peningula Airdrome.

Virginia Peninsula Airdrome. Colonel March, who has 15 years of ex-perience as a Flight Surgeon with the Army Air Corps, was first placed on fly-ing status in January, 1924. He arrived at Langley Field in February, 1937, from duty as Flight Surgeon and Post Surgeon at Selfridge Field, Mich. During the World War, he served two years overseas with the Fourth Division of the American Expeditionary Forces. His services in the Army of Occupation in Germany were in the capacity of Director of Field Hospitals of the Fourth Division. Colonel March is assisted in the im-portant duties of keeping flying members

portant duties of keeping flying members of the various organizations physically fit by a staff of medical officers and enlisted men,

It is estimated that approximately 375 examinations of flying officers are con-ducted twice each year, together with over 400 enlisted men of combat crews, who are examined once each year for the purpose of securing a clear estimate of an individual's ability to perform the task demanded of him, and to find and correct physical defects that might in-

terfere with their flying duties. Realizing that physical defects which may be possessed by any personnel engag-ed on flying duty may directly or indi-rectly be the cause of serious accidents, it is easily understood just why the Flight Surgeons closely check at all times the physical fitness of the qualified pilot, co-pilot, radio operator, machine gunner, bombardier and the mechanic.

It has often been said that the meas-ures established at the airdrome are of the preventive medicine type and, since the government has invested in every member on flying status a considerable sum of money, it is evident that the longer these men are able to carry on their respective military flying duties the greater the return will be on the

government's investment. All Langley Field flying personnel are required to undergo a thorough examina-tion at the Station Hospital twice each year to determine their physical fitness to fly, special attention being paid to the eyes, ears, lungs, heart, blood vessels and nervous system.

The difference in air pressure at high altitudes causes the blood to absorb less oxygen, and this requires increased activity of both lungs and heart. It is apparent, therefore, that a sound car-

5 5 ... diac and respiratory system is of extreme importance. Jenefo

Without doubt, the organ of sight is the most important factor to all personnel engaged in flying. Visual acui-ty must therefore be normal, which its technically termed 20/20 with Shellen test type.

Among the older personnel, where experience compensates for minor defects of distant and near vision, watwers for these minor defects are granted, thus permitting them to continue on Plying duty, provided these minor defects can be corrected to normal or near normal by glasses worn under their goggles. The extrinsic, or voluntary muscles of the eyes are tested by an instrument

called a Phorometer, because if any of these muscles are weak the pilot will, when fatigued from long hours of flying lose his ability to judge distance and may even see double, and so run the danger of wrecking his airplane when he comes in to land.

Hearing must also be normal in both ears, due to the fact that radio com-munications are of vital importance in aircraft operation and it is necessary to disregard the noises emanating from the motors, propellers and the howling static picked up by the radio

receiver during inclement weather. With changes in barometric preserve producing considerable effect on the ear drums, the eustachian tube, which runs from the middle of the ear to the upper part of the throat, must be free from colds or the preserve of the free from colds or the presence of adenoid Therefore, the nose and tissues. throat are also carefully examined, and any obstruction to breathing must be corrected by operation or treatment before the individual is returned to or

placed upon duty involving flying. All in all, the matter of keeping the flying personnel physically fit fly is very important both from a medical as well as an economic standpoint, tending as it does to minimize accidents with their resultant loss of both personnel and materiel, both of which are very costly to Uncle Sam. ------

COLORADO AIRMEN FLY NEW AIRPHANES

The 120th Observation Squadron, Air Corps, Colorado National Guard, now boasts of four 0-47A Observation airplanes. The last one was ferried from the North American Aircraft factory." Inglewood, Calif., during the latter part of January, 1939, by Captain John K. Nissley, Air Corps, who is the instructor on duty with this National Guard unit. -10-

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ACTIVITIES OF THE 2ND BOMBARDMENT GROUP

The Second Bombardment Group, Langley Fields Va., under the command of Lieut. Colonel Robert Olds, engaged in a varied assortment of activities during the past six weeks which proved very interesting. On January 21, 1939, one of the Group's B-17's, flown by Major Vincent J. Meloy participated in the search for the British flying boat CAVALIER. Orders from the War Department were received at stold p. mo, and half an hour later the B-17 was ready for a take-off with a load of sextra life rafts, life vests and flargs. A low overcast and severe icing conditions forced the airplane to return Voltangley Field. After landing, the reported position was found to have been in early by 100 miles. Plans were immedietely, made to have six B-17's take off at dawn on January 32nd, but the finding of the survivors by the SS ESSO BAYTON cancelled the undertaking. On Jesurary 1st, word was received that dailed to leave with a cargo of medical supplies for the earthquake-stricken area of Chile upon twenty-four heurs' neticed Several airplanes were at the Middletown Air Depot but, thanks to energetic work at the Depot, they were ferried back to Langley Field within 24 hours, by which time the Group was ready to take aff. Fortunately, the need for

supplies for the earthquake-stricken area of Ghile upon twenty-four heurs' naticed Several airplanes were at the Middletown Air Depot but, thanks to energatic work at the Depot, they were ferried back to Langley Field within 24 hours, by which time the Group was ready to take off. Fortunately, the need for extra supplies was not sufficiently great to require this mass flight. However, the chance to render an act of marcy was not lost, as the XB-15 was called muon to take about 3,200 pounds of medical supplies to Chile. A detailed account of the flight of the XB-15 to Chile appeared in the prebut out it is a supplication of the flight of the XB-15 to Chile appeared in the pre-

march singulares of the 20th Bombardment Spindron performed a navigation flight to March Field, Calif., and return trees

On February 25th, personnel of the 2nd Bomhar ment Group, flying in six B-17's, demonstrated bombing tactics to members of the Millitary Affairs Committees of the Senate and House of Representatives. Demolition' bombs of all sizes from 100 lbs. to 1100 lbs. were dropped.

Captain McDaniel, of the 96th Bombardment Squadron, conducted extensive tests on B-17, type airplane on varying oil pressures at high altitudes and at varying temperatures. Experimental firing was carried on by airplanes firing at own, shadow and that of an accompanying airplane. The results were very satisfactory state.

Lients. Carlmark, Bockman, and Pvt. 1st C1. Cardwell, of the 20th Bombardment Squadron. were ordered to report at Wright Field, Deyton, Ohio, on February 13th, for two weeks' duty in connection with bombsight equipment.

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The 49th Bombardment Squadron recently welcomed to its fold six new officers, five of them coming from the Air Corps Training Center and one from the 8th Pursuit Group, namely, 2nd Lieuts. Barksdale, Bend, Carmack, Giannatti, Mathewson and Clark.

Captain Palmer and Lieut. Feagin, of the 96th Bombardment Squadron, were assigned to the Cold Weather Test group for this year's test in Minneapolis, Minn. Their conclusion was that "it is quite possible to have a warm town in a cold climate."

Lieut. Moffett, a recent graduate of the Advanced Flying School, Kelly Field, Texas, was assigned to the 96th Bembardment Squadron, and reported for duty on February 14th.

daty on February 14th. Four other Air Corps officers, also recent graduates of Kelly Field, namely, 2nd Lieuts. Compton, Manson, Bank and Potter, were assigned to this organization. They are at present on leaves of absence.

COMMENDATION FOR MERCY FLIGHT TO CHILE

The Chairman of the American Red Cross, Mr. Norman H. Davis, addressed a letter on February 15, 1939, to General Malin Craig, Chief of Staff, as follows: "My dear General Craig:

Once again the American Red Cross is indebted to the Army for its splendid cooperation in bringing relief to the victims of the recent earthquake in Chile. This prompt and generous response to the needs of the situation contributed in a large measure to the prevention of suffering among the victims of the disaster.

The splendid flights of airplanes on missions of mercy have won the admiration of the entire country and I should be grateful if you would express to the crews our very sincere appreciation."

COL. DUNCAN RETURNS TO CHIEF'S OFFICE

Special Orders of the War Department relieves Lieut. Colonel Asa N. Duncan. Air Corps, from further assignment and duty at March Field, Calif., and assigns him to duty in the Office of the Chief of the Air Corps, Washington, D.C.

Colonel Duncan's previous tour of duty in the Office of the Chief of Air Corps began in July, 1931, when he was assigned to the Training and Operations Division. Later he commanded Luke Field, T.H., and the 5th Composite Group. - V-7993, A.C.

SHORT-LIVED JOY FOR PURSUITERS

"For the first time in lo these many moons," declares the Correspondent of the 36th Pursuit Squadron, Langley Field, Va., "each pilot in the 36th has a nice, bright, new shiny airplane to call his own - well, practically each pilot has one. But that won't last very long, be-cause the balance of power is being up-set by the quota of new officers from the Air Compa Training Conter. set by the quota of new officers from the Air Corps Training Center - Lieuts. R.J. Bourgoin, P.M. Brewer, Jr., A.R. DeBolt, S.N. Garrett, V.M. Gillum, O.B. Hardy, Jr. and J.B. Henry. As men, they are well met, and as officers they bid fair to maintain the spirit of a highly zealous organization. These officers reported for duty during the week of February 20 - 25. They bring the com-missioned strength of the Squadron to the all time high of twenty-six.

SQUADRONAIDS IN SOLUTION OF MURDER CASE.

The News Letter Correspondent of the First Observation Squadron, Air Corps, at Marshall Field, Fort Riley, Kansas, reports that this organization had an opportunity to assist local authorities in the solution of a murder case recent-ly. A local automobile salesman was ly. missing under circumstances which caused authorities to believe he had been kidnapped or murdered.

About noon on Sunday, March 5, 1939, the Geary County sheriff and prosecuting attorney requested that an airplane search of an area immediately south of Marshall Field be made in an effort to locate a dark green Plymouth sedan, which the missing man had been driving. Due to bad weather, which had grounded air traffic through this area, the search could not be immediately conducted, but was delayed until Monday morning, March 6th. Shortly after taking off from Marshall Field, Lieut. Gerry L. Mason harshall Field, hield, belt, ferry L. Mason located the missing car in a saucer-shaped depression where it had been missed by ground searchers. The sheriff was notified and immediately came to Marshall Field with deputies and an agent of the Federal Bureau of Investigation, who had entered the case because of the kidnapping angle.

Officers from Marshall Field conducted the officials to the car, which contained mute evidence of a brutal murder. There was no body near, but an immediate effort was made to reconstruct the crime and estimate where the murderer had hid-den or disposed of the body. A bridge on the road into Junction City was con-sidered, and at the request of the sheriff, who wished to leave his own car with deputies to guard the murder car, he and the F.B.I. agent were taken to the bridge. Blood spots were discovered, and the sheriff was taken to town to organize -12-

a crew for dragging the river, It was soon discovered that this was a wrong lead, however, when a local citizen identified the blood spots as those of a dog he had killed on the bridge. A local youth started a short cut home, and in a field next to the bridge, near a steel power pole, whe add found the body of the missing gallesman. An arrest has been made and the support charged with first degree murder. shinar (reulia -----

31,000-MILE FLIGHT IN LIGHT AIRPLANE vinte .

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A clipping from the Manila DAILY 11:11 BULLETIN of January 28, 1939, forwarded to the Information Division by Colonel Ralph Royce, Air Officer of the Phillip-ping Department pine Department, gives an account of the landing on the day previous at the Nielsen Airport, Manila, of two (ayia-5 tors, Lieuts. Rudolph Jenett (24) and Horst Pulkowski (30), of the German Air Force, following their 15,000-mile flight from Germany in their light flight from Germany in their light Arado Ar 79 cabin plane. This plane, "I which is of the inexpensive type pit out in Germany, weighs about 8600 the, and flies on 65 horsepower, with 40¹¹ horsepower in reserve. Its gasoline capacity is 3,984 liters, approximately 1100 gallons.

The arrival of the fliers in Manila marked the completion of the first half they began their flight from Branden at burg, Germany, on December 17th, and made stops at Naples, Tripoli, Alexan dria, Calcutta, Bangkok, Penang, Medan, Sumatra, Java, Timore, Port Darwin, Normantown, Sydney, Cape York, New Guinea, Makassar, Tarakan and Ceturas Sydney, Australia, marked the turning point of their journey back to Germany, via the Philippine Islands, the route they intended following being from

they intended following being from Manila to Bangkok, to Calcutta, Mysore, Delhi, Djask, Bagdad, Alexandria, Cyprus, Rhodes, Athens, Belgrade and Bucharest.

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Libbey, Fire MAJOR SMITH ORDERED TO SACRAMENTO or Grongetta

Major Lowell H. Smith, leader of the Air Corps Around-the-World Flight in " 1924, and the only member of that expetion still actively connected with the Air Corps, is under orders for duty st the new Air Corps Depot at Secremento, Calif. He is scheduled to leave, into his new station on or about June 1012 1939. For the past four years Major M Smith has been on duty in the Office of the Chief of the Air Corps, Washington, D.C., as Chief of the Inspection, Divi-Solly, Jo .: sion.

erhumo, Crister Sod, <u>Mili</u> V-79980 A.C. 2 THE NEW ADVANCED FLYING CLASS AT KALLY FIELD

The class of student officers and Flying Cadets, which for the past eight months had undergone instruction at the Air Corps Primary Flying School, Randolph Field, Texas, completed the course towards the end of February, and on the 25th of that month was ordered to proceed to Kelly Field, Texas, to pursue the advanced course of flying instruction thereat. This class, numbering 166 students, comprises four officers of the Regular Anny, two officers of the Philippine Army, 158 Flying Cadets of the U.S. Army, and two Flying Cadets of the Philippine Army.

sections of the Advanced Flying School, as follows:

> Observation Section Officers

1. Î.L

2d Ltr John T. Shields, Cav. Louisiana 2d Lt. William S. Steele, Inf. 3d Lt. Reporto B. Luzon South Carolina Philippine Army Flying Cadets Luker, James Webster Porterville, Calif. Parker, Frank Russell, Jr. Old Greenwich, Conn. Motyl, James D. Wilson, Conn. Allen, Charles Oran, Jr. Jones, James Dalton Beaz, William Nelson, Jr. Panama City, Fla. Sarasota, Fla. Lexington, Ky. Lexington, Ky. Kinnaird, Eugene F., Jr. Williams, Adriel Newton Shelbyville, Ky. Habberstad, Edward C. Blooming Prairie, Minn. Dech, Keith Wesley Minneapolis, Minn. Folts, John Lloyd Herkimer, N.Y. Favostt, Falph M. Wilkins, John Campbell DeVine, John I. Ottawa, Ohio Corvallis, Ore. Philadelphia, Pa. Florence, S.D. Houston, Texas San Antonio, Texas Gole. Nester Evan Barham James Carlton Chandler, Charles G., Jr. Barekman, Joseph Anderson Panceke, Frank Robins Stephenville, Texas Staunton, Va. Los Angeles, Calif. Page, Jerry Dentler Dizon, Victor H. Philippine Army Pursuit Section Officers 2nd Lt. Bienvenido E. Ferrer Philippine Army Flying Cadets Gilchrist, William David, Jr. Auburn, Ala. Libbey, Harry G. Mobile, Ala. Tipton, James Baird University, Ala. Tucson, Ariz. Grossetta, Anthony V. Green, Frenklyn T. Fort Logan, Colo. Washington, D.C. Fort Lauderdale, Fla. Winter Garden, Fla. Wood, Samiel Gordon -Beyeler: Arnold Walter McMillan, George Bray Avondale Estates, Ga. Chicago, Ill. Chicago, Ill. Chicago, Ill. LaWoille, Ill. Mong Liewis Bruno Cordon Michael Jacob Loomis, Donald Eugene Riley, Harris Dean Koepke; Fred Vinton Bowen, William Joseph A. Bowen, William Josep, Cory, Albert Arnold Oak Park, Ill. Oak Park, Ill. Peoria, Ill. Hester, John Kenton Kelly, Joseph Anthony Westville, Ill. Indianapolis, Ind. Terhume, Charles E., Jr.

Reed, William Benjamin

Grieger, Harvey Emil

South Bend, Ind. Wanatah, Ind.

Sprankle, Kenneth Wayne Jackson, T. Walter Stewart, Everett W. West Lafayette, Ind. Ames, Iowa Manhattan, Kans. Lawrence, Samuel Eugene, Jr. MacDonald, Charles Henry Salmela, Oliver R. Baton Rouge, La. Baton Rouge, La. East Weymouth, Mass. Richmond, Luther H. North Wilbraham, Mass. Detroit, Mich. Gorman, Paul Joseph Harker, Ward W. Detroit, Mich. Lichter, Carl Jerome Dusard, Lee Francis, Jr. St. Paul, Minn. Kirkwood, Mo. Conway, Ralph Francis Socorro, N.M. Genesco, N.Y. Wheeler, Ansel James Cary, N.C. Goldsboro, N.C. Goldsboro, N.C. Max, N.D. Seymour, Rudolph Romulus Exum, Wyatt Patrick Slocumb, Charles Dewey, Jr. Barnick, Roland J. Kent, Ohio Milwaukie, Ore. Nunzenmayer, Wilmer Walter Fisch, Ted B. Milne, Jack Gillespie Meyersdale, Pa. Columbia, S.C. Hornsby, Thomas William Gilbert, William Frank, Jr. Cherry, William T., Jr. Lyman, S.C. Abilene, Texas Ort, Rudolph King Wichita Falls, Texas Cate, Albert Murray Plainfield, Vt. Darling, Henry B., Jr. Tokarz, Clemence Paul Lexington, Va. Port Richmond, Va. Fairmont, W. Va. Huntington, W. Va. Wood, Paul Davis Bowen, William S.

Norris, Robert Parks Hubbard, Thomas Harvey Rosasco, Henry P. McCafferty, Guy Franklin Davis, Allyn Taylor Matthews, Robert Lee Banks, Ala. San Diego, Calif. Washington, D.C. Fort Bliss, Texas Los Angeles, Calif. South Bend, Ind.

Attack Section

Flying Cadets

Riddle, Semuel S., Jr. Birmingham, Ala. Nogales, Ariz. Frazier, Robert M. Curry, Jack Harold Rogers, Ark. Northamer, Kenneth Walter Fresno, Calif. Hayward, Calif. Los Angeles, Calif. Redlands, Calif. Hubbard, Harry Vaughn MacPhee, Angus C.B. MacPhee, Angus C.L. Thornquest, William L., Jr. Redlands, Call. Kittel, Robt. Stewart Colorado Springs, Colo. Denver, Colo. Bratton, Leslie Raymond Laborde, Fred N. Cook, Bailey Cavenaugh Savoie, William Frank Southbury, Conn. New Castle, Dela. Chicago, Ill. Dixon, Ill. Barthelmes, Karl T. Kuhl, Phil John Riverside, Ill. Clark. Donald Leonard Alta, Iowa Belle Plains, Iowa Evanoff, Alexander G. Sams, Burton Kresge Culver, Kans. Goetz, Albert John Dodge City, Kans. Carlton, William Clayton Minden, La. Watkins, Tarleton H. Aberdeen Proving Gds, Md. Watkins, Tarleton R. Abertutan, Arlington, Mass. Higgins, Edward William, Jr. Arlington, Mass. Ruans, Robert Chester Detroit, Mich. Ballard, Norman Luellen McNelly, Fred Wright Rehmann, Orville H. Ryan, Clair E. Bay City, Mich. Anoka, Minn. Bertha, Minn. Springfield, Minn. Franks, Perry Leroy Lincoln, Neb. Carlson, Francis Bernard Ossining, N.Y. Vosper, Stanley Richard Akron, Ohio Burlington, Okla. Schurter, Orie Olin Anthis, Rollen Henry El Reno, Okla. Newton, Dorr Ellsworth, Jr. Malvern, Pa. -1'3-V-7993, A.C.

Ragland, Richard M. Houston, Texas Randolph Field, Texas Houston, Texas Houston, Texas Menard, Texas Beck, George G. Brooke, Lawrence M. Gregory, Charles E. Rector, Walter Stokes Wheless, Hewitt Terrell San Antonio, Texas Dahlberg, Charles William Tarrant, Yancey Smith Martin, Maurice Leslie Waco, Texas Vancouver, Wash. Clarksburg, W. Va. Cunningham, Joseph Austin Pike, Harry MacCulloch Portage, Wis. West Los Angeles, Calif. Danley, James Ramey O'Connor, Robert G. Northampton, Mass. Juliano. Godofredo M. Philippine Army Bombardment Section Officers 1st Lt. James B. Buck, Int. Texas 2nd Lt. Jack A. Gibbs, C.E. Oregon Flying Cadets Rogers, George Wendell Tucson, Ariz. Myer, Glen Anthony Cupertino, Calif. Alder, Glen Miller North Los Angeles, Calif. Carter, John Henry Brown, Dom Cornelius Paul Boyd, William Ellsworth Pasadena, Calif. Venice, Calif. Boulder, Colo. Wilmington, Del. Decker, Ind. West Lafayette, Ind. Cedar Rapids, Iowa Carpenter, Randall Hamilton Miller, Samuel Hudson Emrick, Paul Stanley Maney, John Randolph Itz, Milford Felix Osage City, Kans. Winfield, Kans. Cranston, George Echelbary Holt, James William, Jr. Hazard, Ky. Whitaker, Narce Roxana, Ky. Tartar, Jerome E. Mintonville, Ky. Simpson, John G. Rozwenc, George Stephen Preston, Joseph J. Chevy Chase, Md. Northampton, Mass. St. Paul, Minn. Ridgefield Park, N.J. Henry, John Elwood Jones, Jack Carey Dobbs Ferry, N.Y. Brown, Paul Douglas West Orange, N.J. Delaware, Ohio Fort Sill, Okla. Wilson, Frederick Gerald Morse, Raymond Steel Chadwell, George Theodore Purcell, Okla. Beard, Robert Wallace Eugene, Ore. Spieth, Harry Edwin, Jr. Smith, Pinkham Portland, Ore. Providence, R.I. Bussey, Carver Tharton DuRant, Francis Fill Reeve, Ralph Amos Florence, S.C. Georgetown, S.C. Milbank, S.D. Bearden, Tenn. Vernon, Texas Pratt, Carlos Conrad Cox, Ray Lawrence Hendrix, William Murray, Jr. Fort Belvoir, Va. Jeffrey, Thomas Stanley, Jr. Lexington, Va. Buckhannon, W. Va. Fitzwater, John Timothy Hahn, Delbert H. Milwaukee, Wis. Van de Lester, John Rineir Hammond, Ind. Ezzard, Richard Francis Winter Garden, Fla. ------

Under Special Orders of the War Department, recently issued, Lieut. Colonel George L. Usher is relieved from duty in the Office of the Chief of the Air Corps and assigned to duty at Randolph Field, Texas. Colonel Usher has been on duty in the Personnel Division for the past four years, serving as Chief thereof three yrs.

Handley, Texas Houston, Texas By the Langley Field Correspondent

> Powerful demolition bombs roared a welcome on the morning of February 25th so a party of high ranking officials of Washington, who arrived by steamer and plane to inspect armaments, view a bombing and gunery demonstration at Plum Tree Island, and witness firing from huge Coast Artillery guns at Wort Story and Fort Monroe before returning the same night to the Capital.

Chairman May, of the House Military Affairs Committee, headed the delegation of eleven members of that Committee and four members of the House Appropriations Committee, who were greeted at Old Point Comfort by military authorities upon their arrival by steamer. Manother delegation came by plane from Washington to Langley Field.

to Langley Field. Six B-17 'Flying Fortress' Bombers and 36 Pursuit planes engaged in a bombing and gunnery demonstration at Plum Tree Island while the Washington officials and their Mosts watched from Messick's Point, a few Bundred yards distant. Following the aerial exercises, the entourage traveled to Fort Story for Tunch and a demonstration of 37 M, .50 and 1.30 caliber machine guns and 3-inch anti-effectant guns. The group returned to Fort Monroe to see the 12-inch disappearing carriage seacoast guns of Battery DeRussy in action that aftermoon.

The bombing demonstration was inaugurated by one of the four-motored Bombers, which aropped eight 300-pound bombs at the rate of three per second from a height of 12,000 feet. A moment later, another B-17, flying at the same altitude, dropped four 600-pound bombs at the rate of three per second. A third Bomber loosed, two 1100-pound bombs in one second as it flew unseen through a hazy sky. All the while, the pilots of the planes were in radio communication with the group at Messick's Point, and through a loud-speaking arrangement advised the spectators at what moment the missiles were dropped.

Three 2-17's, flying in formation at 12,000 feet, ended the bombing exercises by dropping in train ten 100-pound bombs of gray sanke and flame on the island range and rocked the bleachers where the visitors were seated.

Thirty-six Pursuit planes, flying in the flights of six planes each, fired at water targets simultaneously. The last 18 signature planes fired tracer bullets which could be seen as they belched from the machine guns of the speedy craft.

An official program describing the bombing and gunnery demonstration said the display awas arranged "in an effort to illustrate the same tent of training and preparedness of the effective Air Force, exemplified by the units taking and part in this demonstration."

"No artificiality is imposed in the demanstration of aerial bombing. Actual demalition bombs are dropped," the program pointed out it "using exactly the same tactics that would be used in time of war." It further captained of that by multiplying the effect of each three (Continued on Page 15)

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V-7993, A.C.

NIGHT FLIGHT

The airport, like a jeweler's tray Of blackest velvet that night lay, With brilliant stones about its fringe, And on beyond, a yellow tinge Of oity lights from buildings high That seemed to pierce the lowering sky.

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Runways marked with emeralds green; Danger rubies in places seen; While in between the green and red The boundary diamonds took their stead, And twinkling was this bright array, This airport like a jeweler's tray.

Piniceing above the field Three colored lights swiftly wheeled; Then sliding down through the clouded sky Straight for the emeralds did they fly; A red light left, a green light right, And a Gycleps eye that searched the night.

The transport settled on the tray, And took its place in the rich array, A bit of platinum it might seem That fitted into the jewelry scheme. It taried up to the waiting line, But remained the jewel in the dream of mine.

> Nathan H. Ranck, 2nd Lieut., Air Reserve, Pope Field, Ft. Bragg,N.C.

RADIO ENTHUSIASIS STAGE NOVEL "STAG PARTY."

The Kelly Field monthly stag and "get-together" party, field on Friday night, February 24th, was under the supervision of a committee composed of the radio enthusiasts at that field, namely: Major Albert B. Pitts, Captains Holmes, Guest, Lieuts. Bundy, Nelson, Sergeants Hagin, O'Connor, Privates Gudehaus, Talley and O'Hara.

This was the first party to be given under the supervision of different committees of the field. The committee spent a great deal of time on their entertainment, which consisted of demonstrating the ability of the different Section Chiefs and their assistants in their indoor blind flying equipment over a 'hot' runway and beam course. Due to the runway not being 'hot' enough, participants were required to remove their shoes.

Supplementing this demonstration were other radio features, including a photo-electric target range, remote radio-controlled slot machine, and a demonstration of the Crosley 'Reado'' (fac simile printer). This 'Reado'' receives radio broadcasts of printed news items and pictures and reproduces them on white paper. This demonstration was conducted by Mr. H.L. Roper, representing the Alemo Distributing Company of San António, and was of great interest to everyone who attended.

"Moother very interesting feature of this party West a demonstration of expert pistol shooting by Light Densford, of Kelly Field; Mr. L.L. Kline, Director of the National Rifle Association, and President of the Liberty Pistol and Rifle Club; Detective R.F. Tate, special investigator for

the Chief of Police of San Antonio; Mr. H.M. Kline; and Mr. Ben Mouton, target holder and renowned high diver of the circus. The audience received numerous thrills during this shooting, watching these experts shoot pieces of chalk out of the target holder's mouth and buttons off his vest while holding the pistol in odd positions.

The balance of the evening was spent in various forms of diversion.

Says the News Letter Correspondent: "If the subsequent parties are as entertaining as the one held Friday night, it is believed that the Officers' Club at Kelly Field will have to be enlarged."

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Bombing Demonstration at Langley Field (Continued from Page 14).

plane formation by four an accurate idea of the results to be obtained by a full strength squadron may be shown.

Among those listed as visitors from Washington were: Chairman May (Ky.); Representatives Thomason, Kinday (Texas); Faddis, Rutherford, Snyder (Pa); Turner (Tenn.); Schaefer, Arends (II1.); Pace (Ga.); Sparkman, Starnes (Ala.); Clason (Mass.); Martin (Colo.); Elstron, Harter (Ohio); Edmiston (West Va.); Smith (Conn.); Merritt (N.Y.); Costello (Calif.); Anderson (Mo.); Narness (Ind.); Terry (Ark.); and Engel (Mich.).

Senators Bridges (N.H.) and Gurney (S.D.), could not come to the Lower Peninsula, although they were included in the group scheduled to accompany the Representatives who made the trip for first hand information on the Administration's military program.

> TO A (HAMILTON) FIELD MOUSE OR 'MUCH ADO ABOUT NOTHING' (in the Group Adjutant's Office)

Hickory, Dickory, Dock, You've heard of the mouse in the clock; But here's about one Who thought it great fun To hide in the Group Adjutant's frock.

Persistently, cunningly, avoiding pursuit, Smug in the pocket of a warm flying suit. "Help!" cried the Captain, "Sergeant, come quick -Bring me a gun or fetch me a stick!"

"The British are coming," the Sergeant cried, "They've got us surrounded on every side, Sound the Charge! Forward! Typewriters present."

The whole office force to the rescue went.

Then ensued a battle that made Bull Run Look like a picnic before it was done, But the home guard fought fiercely, and at last turned the tide. "Bravo!" cried the Captain; you've conquered the pest, "Sergeant! Help me get down from this desk!" 5- V-7993, A.C.

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Anonymous

Young oscar klotz was just a squirt a wee broth of a lad as it were tending his poppas pea patch out in oklahoma one morning in the early twenties when suddenly with a scattering miss and a coughing sneeze something with two tattered wings and a greasy pilot skidded betwixt two rows parted two strands of barbed wire and slithered to a stop poppa klotz and the pilot who called this wheezing monster a goddam d h fixed something in the engine with something offa poppas tractor and put some cardboard and adhesive tape on the tattered wings with more sneezes and more coughing and a pat on oscars head not to mention one more strand of barbed wire the greasy one was gone but not forgotten because young oscar klotz had found his calling years passed and though between times oscar had been exposed to higher learning and should known better he would still get up on Sunday morning and drive twenty miles to see the plane from amarillo land and driving home with Emmy Lou who still admired a football player at o u he would renew his plans to write his name across the sky in crimson letters so oscar went to texas with poppas blessing and a spark of interest from Emmy Lou i met him there he was a good joe and together we walked the area and busted shock cords and generally tried everybodys patience but we made it and even on graduation day oscar said this armys

not for me i've got big things to do and i said you goota eat too and i'll betcha in six months you'll wanta stay but he said no and so the air corps took us in hand and told us we didn't know it all not yet so lissen so we lissened and learned some more and one day oscar and i dropped into oklahoma city and there was poppa klotz and momma klotz and empy lou and the football player from 0 12 and a hundred others they took oscars picture and put a big story in the local papers about oscar and his super ultra fighting ship and how he was uncle sams left hand buddie and a lot more slop but oscar was impressed and emmy lou forgot her hero and married oscar not right there but sometime that night time passed apace and the man of destiny became a fair to middling mess and supply officer but he still dreamed dreams of far places and taking off some morning for tierra del fuego or something but emmy lou enjoyed the post bridge circle and liked to root around the p x and was all for the army as her career and even oscar weakened when they let him lead an element and gave him armament and communications and told him he was now the squadrons right hand man next time i saw him emmy lou had proudly presented oscar with oscar jr and he was talking air corps politics and comparative air strengths instead of

financial backing for that tierra del fuego proposition i might have guessed it but when the next list of new second looies air corps came out lo young oscars name led all the rest this is a long dissertation not to have a moral so i'd better put one in It's about a conversation i heard once between two prairie dogs just north of north platte nebraska a big one said to a little one if the hole you're in isn't big enough make it bigger don't go running around north platte looking for a bigger one all the big ones are full and somebody might steal your little one and a missus prairie dog won't want you running around digging a big hole she'll just make you feel at home where you are. -----

NEW CRASH TRUCK IS INTRODUC-ED TO NEW TRANSPORT PLANE

When the San Antonio Air Depot Correspondent reported in the previous issue of the News Letter the acquisition of a big new airplane crash truck on February 17th, and a new C-39 transport plane on the 15th, it was not dreamed that, unfortunately, these two craft would be formally introduced to each other so soon. On February 21st, the new C-39, piloted by Lieuts, L.P. Kleinoeder and T.K. Dorsett, en route with cargo to Barksdale Field, La., was forced down by engine failure near Mount Enterprise, Texas, some 80 miles west of Barksdale Field, fortunately without injury to personnel. The new crash truck and the necessary mechanics were sent to the scene of the crash. V-7993, A.C.

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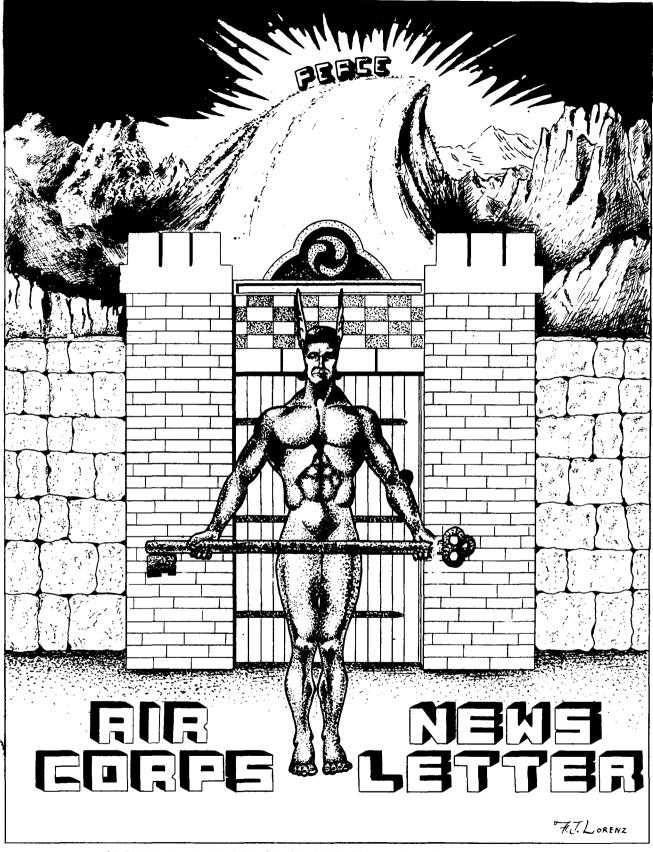
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ISSUED BY THE OFFICE OF THE CHIEF OF THE AIR CORPS WAR DEPARTMENT WASHINGTON

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VOL. XXII	AIR	CORPS	NEWS	LETTER	NO. 7.
Information Division			``		Munitions Building
Air Corps		Apr	il 1, 1939		Washington, D.C.

The chief purpose of this publication is to distribute information on aeronautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation.

THE ARMY AIR CORPS FOR 1938 -- A REVIEW

Ed. Note: The review of Air Corps activities and of various aeronautical events during the calendar year 1938, as hereinafter given, is not intended as a full and complete chronology thereof. The necessary time required to conduct the research work incident to the compilation of a complete chronology has not been available. Furthermore, space is lacking for the publication of a more complete report. It is believed, however, that the chronology of events as here given should afford the reader a fair idea of the various activities in which the Air Corps was engaged during the past year.

CHRONOLOGY

Personnel - Appointments, Changes, etc.

The tour of duty of Brigadier General Gerald C. Brant as Wing Commander of the 2nd Wing, CHQ Air Force, Langley Field, Va., terminated on February 28th, and on the following day he was assigned as Commandant of the Air Corps Technical School, Chamute Field, Rantoul, Ill., and the branch thereof at Lowry Field, Denver, Colo. General Brant reverted to his permanent rank of Colonel.

Colonel Frank D. Lackland was relieved from assignment and duty as Chief of the Field Service Section at Wright Field, Dayton, Ohio, and assigned to duty as Commandant of the Air Corps Advanced Flying School, Kelly Field, Texas. He assumed command of this School on March 25th.

Effective March 1, 1938, Colonel Arnold N. Krogstad, Air Corps, was appointed a Wing Commander with the temporary rank of Brigadier General; relieved from assignment and duty as Commandant of the Air Corps Advanced Flying School, Kelly Field, Texas, and assigned to the command of the 2nd Wing, GHQ Air Force, Langley Field, Va. General Krogstad assumed the duties of his new position on March 31, 1938.

Brigadier General James E. Chaney, upon the expiration of his appointment as Assistant to the Chief of the Air Corps, with the rank of Brigadier General, on July 16, 1938, was relieved from assignment and duty as Commanding General of the Air Corps Training Center and assigned to the command of Mitchel Field, N.Y.

The appointment of Brigadier General George H. Brett as Wing Commander of the 19th Wing, Albrook Field, Panama Canal Zone, terminated on October 29, 1938, and he was assigned to duty as Chief of Staff of the GHQ Air Force, Langley Field, Va.

Brigadier General Barton K. Yount as relieved from the command of the 18th Wing in the Hawaiian Department and assigned to duty as Commandant of the Air Corps Training Center, Randolph Field, Texas, succeeding Brigadier General James E. Chaney. General Yount assumed command of the Training Center on August 5, 1938.

Effective September 30, 1938, Colonel Walter H. Frank, Air Corps, was appointed temporary Wing Commander, with the rank of Brigadier General in the Air Corps. He was relieved from duty as Chief of Staff, Hqrs. GHQ Air Force, Langley Field, Va., and assigned as Wing Commander of the 18th Wing in the Hawaiian Department.

Effective October 13, 1938, Colonel Herbert A. Dargue, Air Corps, was appointed temporarily a Wing Commander, with the rank of Brigadier General in the Air Corps. He was relieved from duty as Assistant Commandant of the Air Corps Tactical School, Maxwell Field, Ala., gnd assigned to duty in the Panama Canal Department, where he arrived on October 14th and assumed command of the 19th Wing.

Brigadier General Henry C. Pratt, U.S. Army, was relieved from duty as Commandant of the Air Corps Tactical School, Maxwell Field, Ala., and assigned to the command of the 23rd Brigade in the Philippine Department. He departed from Maxwell Field for his new assignment on August 7, 1938.

Colonel Jacob H. Rudolph, Air Corps, assumed command of the branch of the Air Corps Technical School, Lowry Field, Denver, Colo., on July 1, 1938, relieving Lieut. Colonel Junius W. Jones, assigned to duty in the Inspector General's Department, Washington, D.C.

Brigadier General Henry H. Arnold, Assistant Chief of the Air Corps, was appointed Chief of the Air Corps with the rank of Brigadier General, for a period of four years, beginning September 29, 1938. General Arnold assumed the duties of that office on September 30th.

Colonel Walter G. Kilner, Chief of Staff of Hqrs. GHQ Air Force, Langley Field, Va., was appointed Assistant to the Chief of the Air Corps, with the rank of Brigadier General, for a period of four years beginning September 30, 1938, and assigned to duty in the Office of the Chief of the Air Corps, Washington, D.C.

Colonel John H. Pirie, transferred from V-8013, A.C. March Field, Calif., to Maxwell Field, Ala., assumed command of the latter field on October 4, 1938.

Brigadier General Barton K. Yount, Air Corps, was relieved from command of the Air Corps Training Center and assigned to duty in the Office of the Chief of the Air Corps, Washington, D.C.

Colonel Millard F. Harmon, Air Corps, assumed command of the Air Corps Tactical School, Maxwell Field, Ala., on December 6, 1938. Lieut. Colonel Donald Wilson was assigned as Assistant Commendant of this School.

A total of 17 first lieutenants of the Air Corps were promoted to captain, with rank from June 7, 1938, and 61 additional first lieutenants were promoted to captain, with rank from June 9, 1938.

Thirty second lieutenants of the Air Corps were promoted to the grade of first lieutenant, effective June 12, 1938. Effective June 30, 1938, 38 additional second lieutenants were advanced to first lieutenants.

Nineteen Air Corps Reserve officers serving on extended active duty were commissioned secong lieutenants in the Air Corps, Regular Army, with rank from July 1, 1938, under the previsions of the Acts of Congress of August 30, 1935, and April 13, 1938.

As a result of competitive examinations among Air Corps Reserve officers on extended active duty, 188 received commissions as second lieutenants in the Air Corps, Regular Army.

SCHOOL ACTIVITIES

Air Corps Training Center

The maintenance flight of Class 38-A of the Air Corps Advanced Flying School, Kelly Field, Texas, was completed on January 28th, with no mishap, despite delays encountered due to adverse weather conditions, including dust storms, low ceilings, etc.

storms, low ceilings, etc. On February 16th, Class 38-A, comprising 5 officers of the Regular Army, one officer of the Brazilian Army, and 55 Flying Cadets graduated from the Air Corps Advanced Flying School.

Bombardment training was reestablished at the Air Corps Advanced Flying School, beginning February 23rd, with the incoming class which graduated from the Primary Flying School, Randolph Field. Four officers were assigned to duty as instructors in the Bombardment Section.

A total of 101 students of Class 38-B, comprising 2 Regular Army officers, 6 foreign officers and 93 Flying Cadets, who graduated from the Primary Flying School, Randolph Field, Texas, reported on February 23rd at Kelly Field for advanced flying training.

A class of 321 students reported at the Primary Flying School, Randolph Field, for flying training with the March 1, 1938, class.

training with the March 1, 1938, class. A special Traveling Board of Air Corps and Medical officers from the Air Corps Training Center departed on February 14th for the purpose of visiting colleges and universities in the 7th and 8th Corps Areas; first, to examine applicants for appointment as Flying Cadets; and, second, to disseminate information concerning the Training Center over as large an area as practicable. The Board examined a total of 746 applicants, of which number 165 were found qualified and recommended for appointment as Flying Cadets. The Board returned to the Training Center on April 13th, after traveling a distance of 5150 miles, utilizing two BT-9 airplanes.

Seven Inspectors of the Bureau of Air Commerce, Department of Commerce, holding commissions in the Air Reserve or in the National Guard, arrived at the Air Corps Advanced Flying School, Kelly Field, on May 9th, for temporary duty, to receive a special course of pilot instruction on two-engined equipment. Each Inspector received from 12 to 15 hours of pilot time on local and cross-country flights, and they completed the course on May 21st.

Graduation exercises for Class 38-B, of the Air Corps Advanced Flying School, were held on June 16th. The graduating class consisted of two officers of the Regular Army, 6 foreign officers, and 88 Flying Cadets.

A total of 341 students were selected for appointment as Flying Cadets to enter the July 1, 1938, Class at the Air Corps Primary Flying School, Randolph Field. This constituted the largest number of students ever te begin training in any class in the history of the Air Corps Training Center.

A total of 114 second lieutenants of the Regular Army, who graduated from the United States Military Academy, West Point, N.Y.; on June 14, 1938, were assigned to the Air Corps for flying training. They reported at the Training Center during the latter part of September.

During the Fiscal Year ending June 30, 1938, Randolph Field officers and students flow the unusual total of 102,932 hours and 25 minutes, exceeding the Fiscal Years 1936 and 1937 by approximately 30,000 flying hours, the

On October 6, 1938, the strength of the Air Corps was increased by 61 commissioned officers, graduates of the United States Military Academy of the class of 1937, who successfully completed the course of instruction at the Air Corps Training Center.

Graduation exercises for Class 38°C were held at the Air Corps Advanced Flying School on October 5, 1938. The class consisted of 64 Regular Army officers and 80 Flying Cedets and was the largest graduating class in the history of the Air Corps Training Center.

Class No. 39-A reported at Kelly Field on October 8th to complete its instruction at the Air Corps Training Center. This class, the largest yet to be sent to the Advanced Flying School, consisted of 176 students, 4 being Regular Army officers, 6 National Guard officers and 166 Flying Cadets.

Eighteen second lieutenants of the Air Reserve (non-graduates of the Air Corps Training Center) began on October 10th a refresher flying course at the Primary Flying School.

A total of 236 Flying Cadets reported at Randolph Field early in October to begin primary flying training. Including the West for Point graduates assigned to the Air Corps for flying training, the number of students in

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this class totalled 350.

During the period from July 5 to October 5, 1938, a total of 20,781 hours was flown by airplanes at the Advanced Flying School.

Other Schools

New classes in dead reckoning and celestial navigation, the courses lasting six weeks, were begun the first of the year at Hamilton Field, Calif., 33 pilots being enrolled in the first class.

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After two weeks of intensive instruction, 20 selected officers of the Air Corps completed on January 21st a special course in Naval Operations at the Air Corps Tactical School, Maxwell Field, Ala.

Final orders for moving the Departments of Photography and Armament from the Air Corps Technical School, Chanute Field, Ill., to Lowry Field, Denver, Colo., arrived on February 7th, and three days later the freight and passenger trains, carrying personnel and equipment, were on their way to Denver, Colo.

The second class of the Air Corps Weather School at Patterson Field, Fairfield, Ohio, reported for duty on February 1st, 26 students, stationed in various parts of the United States, reporting for this training.

Eight Air Corps officers were assigned to duty as students for the 1938-1939 course at the Army Industrial College, Washington, D.C., and directed to report on September 10, 1938.

On February 19th, 18 members of the class attending the radio school conducted at Hamilton Field, Calif., graduated. The course started on December 2, 1937, and the instruction in radio included both the theoretical and practical phases.

Nine medical officers graduated from the School of Aviation Medicine at Randolph Field, Texas, on March 31, 1938. Diplomas were presented the graduates by Brigadier General James E. Chaney, Commanding the Air Corps Training Center.

In order to train Air Corps officers and enlisted men in the operation of the Autogiro, four officers and five enlisted mechanics began on April 20th a six weeks' course of instruction at Patterson Field, Fairfield, Ohio. Three Autogiros were in use. This was the first school to be operated in this country for military flying training and maintenance of the Autogiro.

Fourteen enlisted men graduated on April 25th from the two months' course of instruction at the School of Aviation Ordnance at Langley Field, Va. Brigadier General Arnold N.Krogstad, Second Wing Commander, presented the diplomas. In the two previous classes of this School a total of 23 students graduated.

During the middle of May, the students and

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faculty of the Air Corps Tactical School, Maxwell Field, Ala., conducted a 'Paper War'' at the aerial gunnery base at Valparaiso, Fla. Approximately 76 students, 14 members of the faculty, and 120 enlisted men participated

Students attending the Air Corps Tactical School, Maxwell Field, Als., received their certificates of graduation on June 3rd from Major General Oscar Westover, Chief of the Air Corps.

On May 21st, the first class attending the Autogiro training school at Patterson Field, Ohio, graduated, after five weeks of intensive air and ground training.

Ten Air Corps officers were detailed for duty as students at the Air Corps Engineering School at Wright Field, Dayton, Ohio, for the 1938-1939 course, beginning August 1, 1938.

Nine Air Corps officers graduated on June 22nd from the Army War College, Washington, D.C.

A total of 38 Air Corps officers graduated on June 20th from the Command and General Staff School, Fort Leavenworth, Kansas.

Eight Air Corps officers graduated on June 23rd from the Army Industrial College, Washington, D.C.

The second course of instruction in Autogiro maintenance and operation started on June 8th at Patterson Field, Ohio, five officers and four enlisted men being in attendance.

Six Air Corps enlisted men graduated on July 2nd from the Radio School conducted at Maxwell Field, Ala., for the purpose of training enlisted men as radio operators for the airways control, airdrome control and post communications section.

Instruction in dead reckoning navigation began on August 15th at Hamilton Field, Calif., for eight Air Corps officers assigned to the 88th Reconnaissance Squadron.

October 3rd marked the opening of the fourth annual two-months' course of instruction at the School of Aviation Ordnance at Langley Field, Va. The class consisted of nine enlisted men stationed at Langley Field.

On October 7th, a total of 12 students graduated from the Airplane Maintenance course at the Air Corps Technical School, Chanute Field, Ill. This was followed with the graduation on October 21st of 48 students from various other courses given at this School.

On November 12th, seven Medical officers of the Regular Army and seven Medical officers of the U.S. Navy, also one Medical officer of the Cuban Army, graduated from the School of Aviation Medicine at Randolph Field, Texas.

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A course of instruction in Dead Reckoning and Celestial Navigation for Air Corps officers in the 18th Pursuit Group, Wheeler Field, T.H., was completed during November.

On December 26, 1938, 26 Air Corps enlisted men were graduated from the Radio Repairers and Operators course given at the Air Corps Technical School, Chanute Field, Ill.

Eleven Air Reserve officers (non-graduates of the Air Corps Training Center), completed the refresher course of instruction at the Air Corps Advanced Flying School, Kelly Field, on December 23rd, and were assigned to extended active duty.

DECORATIONS AND AWARDS

Decorations and awards made during the calendar year 1938 to Air Corps personnel for heroic conduct or distinguished service in connection with flying are enumerated below, as follows:

Distinguished Flying Cross

During a formal review at Randolph Field. Texas, on February 12th, the Distinguished Fly-ing Cross was presented to 2nd Lieut. DRoss Ellis, Air Reserve, for heroism displayed while participating in a flight from Hensley Field, Dallas, Texas, to Oklahoma City, Okla., onApril 24, 1937. During this flight the pilot of the airplane, Lieut. Robert S. Fisher, was pulled from the airplane by his parachute which had accidently opened. Lieut. Fisher's body struck the tail surfaces, badly damaging the rudder, taking off completely the electron on the left taking off completely the elevator on the left side and leaving a stub of some 18 inches in length of the stabilizer. Believing Lieut. Fisher to be badly injured, disregarding his own personal safety and mindful only of securing aid as quickly as possible, Lieut. Ellis displayed great courage when he piloted the badly demaged airplane back to Hensley Field and landed it safely, thereby enabling him to report the accident within 25 minutes of the time it had occurred. Shortly afterwards the body of Lieut. Fisher was found by ground searchers at approximately the location reported by Lieut. Ellis.

The War Department announced the award of the Distinguished Flying Cross to 2nd Lieut. Homer A. Boushey, Air Corps, for heroism and extraordinary achievement in a flight near Fort Lewis, Wash., on October 5, 1936. Structural failure in the aircraft resulted in the loss of both ailerons and caused the plane to go out of control. Ordering his mechanic to jump with his parachute, Lieut. Bushey, by the skillful use of the remaining controls on the disabled airplane, brought it to a safe landing, this resulting in a great monetary saving to the govermment and making possible an engineering study as to the cause of the structural failure of this type of airplane.

At the Auditorium at Wright Field, Dayton, Ohio, on the morning of March 9, 1938, 1st Lieut. B.S. Kelsey, Air Corps, was presented with the Distinguished Flying Cross by Brigadier General A.W. Robins, Chief of the Materiel Division, for extraordinary achievement while participating in aerial flight. On December 24, 1936, Lieut, Kelsey, piloting an aliplane from Mitchel Field, N.Y., to Wright Field, flew at an altitude of 1800 feet when, without warning, the left motor failed and the left wing burst into flames. Maintaining control of the airplane with great difficulty, due to the darkness of the night and the blinding glare from the burning airplane, Lieut. Kelsey managed to effect a safe landing at Wright Field, thereby preventing the destruction of valuable government property.

Lieut. Colonel Robert Olds, Air Corps, Commanding Officer of the 2nd Bombardment Group, Langley Field, Va., was presented the Distinguished Flying Cross on the morning of April 30th before the personnel of his Group and a large number of friends and spectators. The decoration was bestowed upon Colonel, Olds for extraordinary achievement while participating in an aerial flight from Langley Field, Va., to Buenos Aires, Argentina, South America. Major General Frank M. Andrews, Commanding the GEQ Air Force, made the presentation.

The Mackay Trophy

Captains Carl J. Crane and George V. Holloman, Air Corps, were awarded the Mackay Trophy for the year 1937 for their outstanding achievement in successfully developing and actually demonstrating the airplane automatic landing system. On the morning of October 14th, in the office of Hon. Harry H. Woodring, Secretary of War, gold medals emblematic of the Mackay Trophy were presented by the Secretary to these two officers.

Cooperating with Captains Crane and Hollomar in the development of this system of mutamatic landing control were Messrs. Raymond Staut, Project Engineer, and C.D. Barbulesco, of the Signal Corps Aircraft Radio Laboratory, both connected with the Materiel Division at Wright Field, Ohio. The provisions of the deed of gift in connection with the Mackay Trophy, limiting its award to military personnel, rendered it impracticable for these two mivilians to share in the Mackay Trophy award.

The Collier Trophy

Announcement was made by the National Aeronautic Association on September 15th that the Army Air Corps had been awarded the Collier Trophy for 1937 for the successful accomplishment in high altitude flying by the pressure cabin method. The citation accompanying the award reads: "To the United States Army Air Corps for having designed, constructed and completely equipped the XC-35 substratosphere plane, the first pressure cabin airplane to be flown successfully anywhere in the world." Major Carl F. Greene, Captain Alfred H. Johnson and Lieut. Colonel Oliver P. Schols, Air Corps, and Dr. John E. Younger were cited as the principals in the research and development work which resulted in the award.

The presentation of the Trophy was made by President Roosevelt at the White House on

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September 16th, Brigadier General Henry H. Arnold, Assistant to the Chief of the Air Corps, accepting the Trophy on behalf of the principals. Also present at this presentation ceremony were Brigadier General A.W. Robins, Chief of the Air Corps Materiel Division; Mr. Charles T. Horner, President of the National Aeronautic Association, and Mr. Williem L. Chernery, Editor of Collier's Weekly.

The Cheney Award

Announcement was made on January 20th that the Cheney Award for the year 1937 would not be made, the Board of Officers, appointed by the Chief of the Air Corps to select the person or persons most meriting the award, making the recommendation that while there were several instances of heroic feats in connection with aircraft operation, involving risk of life, these were not of a character distinctly to merity the Award, according to standards set in previous years.

The Soldier's Medal

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At a colorful and impressive ceremony held on February 26th at Langley Field, Va., 1st Light. Joseph A. Bulger, Air Corps, of the 8th Pursuit Group, was presented the Soldier's Medal and citation for distinguished valor in rescange little girl from drowning in the weters of Chesapeake Bay in May, 1937.

Andouncement was made by the War Department on April 28th of the award of the Soldier's Medal to Corporal Richard F. Miller and Private 1st Class Earl W. Jordan, Jr., 1st Corps Area Air Corps Detachment, for heroism displayed in attempting to rescue a soldier from drowning in Boston Harbor, Mass., on the evening of December 22, 1937.

On November 4, 1938, the 18th Pursuit Group at Wheeter Field, T.H., held a presentation formation, during the course of which Corporal Paul M. Stone, Air Corps, was presented the Soldier's Medal for heroism in rescuing a civilian from drawning on December 26, 1937.

The Harmon Trophy

The 79th Fursuit Squadron, 20th Pursuit Group; Barksdale Field, La., having attained the highest efficiency standard of any combat squadron in the 3rd Wing, GHQ Air Force, during the Fiscal Year 1937-1938, was selected for the award of the Harmon Trophy, donated by the businessman of Shreveport, La., to Colonel thillard F: Harmon, Air Corps, as a token of their esteem and friendship for him. The precontation of this Trophy was made to the Commanding, Officer of this Squadron, Captain Theyer, S. Olds, Air Corps, by Brigadier General Frederick L. Martin, Air Corps, Commanding the 3rd Wing, GHQ Air Force, on November 12, 1938, at Barkadale Field, La.

The Frank Luke Memorial Trophy

The 77th Pursuit Squadron, stationed at

Barksdale Field, La., having for the second consecutive time attained the highest score of the year in aerial gumery, was again awarded the Frank Luke Memorial Trophy, the presentation being made to the Squadron on November 5th by Brigadier General Frederick L. Martin, Air Corps.

The Daedalian Trophy The Colombian Trophy

In an impressive ceremony on the morning of September 21st, the 19th Bombardment Group, under the command of Lieut. Harvey S. Burwell, Air Corps, drawn up on the parade ground at March Field, Calif., was presented with the new Daedalian Trophy by Major General Oscar Westover, Chief of the Air Corps, just a few hours before his tragic death in the airplane accident at Burbank, Calif. Major General Frank M. Andrews, Chief of the GHQ Air Force, then presented the Group with the Colombian Trophy, a gift to the Army Air Corps by the Colombian Government. These two trophies were awarded to the 19th Bombardment Group for its splendid record of 10,942 hours of flying, during which only one minor accident occurred. This Group flew during the preceding year more hours per airplane than any other organization in the GHQ Air Force or in the entire Air Corps.

Hawaiian Department Commander's Streamer

The 26th Attack Squadron, attached to the 18th Pursuit Group, Wheeler Field, T.H., and commanded by Major G.A. McHenry, Air Corps, was the recipient of the Department Commander's Streamer for demonstrating the highest military efficiency during the year 1936-1937. The award was made by Major General C.D. Herron, U.S. Army, Commanding General of the Hawaiian Division, during an impressive ceremony at Wheeler Field, T.H., on January 18th.

TRAINING 1st Wing, CHQ Air Force

Utilizing two B-18 Bombardment airplanes, the 88th Reconnaissance Squadron, Hamilton Field, Calif., made two flights, beginning March 14th, across the Gulf of Mexico, to qualify flight personnel in selestial navigation, this being a final test for the course of instruction in that phase of training.

The 9th Bombardment Squadron of Hamilton Field, Calif., began bombing prastice on February 10, 1938.

The 1st Wing moved to the Pacific Northwest, August 9-15, to engage in long range reconnaissance missions and to familiarize personnel with the terrain and available military facilities throughout the Northwest area. Units from March and Hamilton Fields were based at various localities in the Pacific Northwest and, in addition to reconnaissance missions, staged bombing demonstrations. The 7th Bombardment Group, of Hamilton Field, Calif., consisting of 37 officers and 100 en-V-8013, A.C. listed men, utilizing 15 B-18 airplanes, was based at Felts Field, Spokane, Wash.

The 9th Bombardment Squadron, Hamilton Field, Calif., conducted a unit navigation and assembly problem over the week-end of September 2-5. The problem consisted of individual dead reckoning and celestial navigation missions to Randolph Field, Texas, via Bakersfield, Calif., and El Paso, Texas.

2nd Wing, GHQ Air Force

A B-17 Sombardment airplane of the 96th Bombardment Squadron, Langley Field, Va., with full combat crew, and piloted by Captain Darr H. Alkire, Air Corps, accomplished on January 5th a night navigation, bombing and gunnery mission to Maxwell Field, Ala., and return, without landing at Maxwell Field.

See Boaing 3:17 Someers, manned by a crew of 35 officers and 56 enlisted men, and commanded by Major Vincent J. Meloy, Air Corps, landed at Kelly Field, Texas, on January 24th on the return portion of a routine training flight from Langley Field, Va., to March Field, Calif. The distance of approximately 1200 miles from March to Kelly Field was accomplished at an average speed of 200 miles per hour, six hours being required for the flight.

Air Corps pilots of the 27th Pursuit Squadron, 1st Pursuit Group, Selfridge Field, Mich., and led by Major Willis R. Taylor, Air Corps, began on February 9th a long aerial journey scheduled to take them through 16 States, during the course of which they were to cover 4600 miles within one week. This flight constituted part of the regular annual training program required of all the army's fighting air units. A great deal of valuable experience was gained by members of the Squadron during this flight.

On June 12th, **ChaseB-17** airplanes of the 2nd Bombardment Group, Langley Field, Va., while on a routine training flight, intercepted the steamship 'Queen of Bermuda' about 300 miles at sea and then returned to the home airdrome. The three planes were piloted by Majors Caleb V. Haynes, Edwin R. McReynolds and Ceptain A.Y. Smith.

A flight of seven PB-2 Pursuit planes from the 33rd Pursuit Squadron, Langley Field, Va., took off on June 6th on a high altitude navigation mission. The flight was joined by six planes from the 35th and 36th Pursuit Squadrons. As a result of this flight, much was learned of the capabilities of biplane Pursuit at high altitudes.

During the Fiscal Year 1937-1938, airplanes assigned to the 27th Pursuit Squadron, Selfridge Field, Mich., were flown for a total of 4,723 hours.

The 36th Pursuit Squadron returned to Langley Field, Va., on November 20th, after two weeks of aerial gunnery training at Valparaiso, Fla.

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On November 7th and 8th, the 20th Bombardment Squadron, 2nd Bombardment Group, Langley Field, Va., conducted a joint training exercise with the Navy.

The 33rd Pursuit Squadron took off from Langley Field, Va., on December 5th for Valparaiso, Fla., to engage in aerial gunnery qualifications. A flight of 10 PB-2A's made the trip to the Florida gunnery base.

3rd Wing, CHQ Air Force distant

As their part in the tactical demonstration held at Barksdale Field, La., in February, 1938, for the students of the Air Corpachactical School, the 20th Pursuit Group of that station furnished nine P-26A airplanes for a mass gunnery demonstration.

In October, 1918, the 90th Attack Squadron, Barksdale Field, La., participated in coopera tive missions with ground forces. The base o these operations was at Fort Riley, Kansas, and they were conducted for the officers of the Command and General Staff School of Fort Leavenworth, Kansas.

Hawaiian Department

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The 18th Pursuit Group of Wheeler. Field, T.H., spent the week end of January 14th in the field at Haleiwa.

On March 25th, Air Corps personnel flying is six airplanes of the 18th Pursuit Group, Wheeler Field, T.H., dropped aerial delivery containers with food to a detachment of the 2nd Battalion of the 21st Infantry which, was marching through rugged country, northwest of Puniki. This exercise afforded valuable traiing for air and ground units and demonstrated that food and water can be delivered by air to lost and marconed parties.

Seven B-12 airplanes of the 50th Reconnaissance Squadron winged their way in a north western direction on May 16th to Burns Field, Kauai, to participate in a week of maneuvers. The personnel on this flight consisted of 9 officers and 34 enlisted men. Operations for the period consisted of reconnaissance flight and aerial machine gunnery practice.

After giving the Transport REPUBLIG, sailin from Honolulu on July 18th, a head start of 2 hours, Bombardment Squadrons of the 5th Bombardment Group, Luke Field, performed an interception mission on the vessel and made con tact with it some 285 nautical miles at sea, after a flight of 2 hours and 8 minutes.

Brigadier General Barton K. Yount, Air Corp relieved from duty in the Hawaiian Department was aboard the Transport.

The 4th Reconnaissance Squadrón, Luke Field compeled an interesting and instructive cooperative mission during the month of August with Battery A of the 15th Coast Artilkery. The object of the mission was to service best a means of accurate location of targets for the 16-inch battery located at Fort Weaver. V-8013, A.C. On August 11th, approximately 35 officers and men of the 23rd Bombardment Squadron, stationed at Hickam Field, T.F., participated in a most interesting navigation mission. The Squadron, flying five B-18 airplanes, flew 550 miles out to sea at an average speed of 204 miles per hour. It was approximately 7 hours in the air before landing at the home airdrome.

During the month of August, the 72nd Bombardment Squadron completed an intensive two weeks' training course at Bellows Field. The training included ground and aerial gunnery and bombing.

During the period August 15 to 27, the 23rd Bombardment Squadron conducted field training at Bellows Field, Waimenalo, T.H.

On September 29th, the 5th Bombardment Group, Luke Field, performed an interception mission some the Army Transport REPUBLIC when it was intercepted at a distance of 329 miles from Oahu.

Ten officers and 46 enlisted men of the 23rd Bombardment Squadron spent five days of training on the auxiliary airport at Hilo, Hawaii.

During the latter part of October, the 23rd Bombardment Squadron was engaged in flying dightly cooperative missions for the 64th Coast Artillery (Anti-aircraft).

Panama Canal Department

The 74th Attack Squadron, Albrook Field, moved to the gunnery camp at Rio Hato, Panama, ox September 10th for two weeks of gunnery and tactical operations.

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The 29th Pursuit Squadron, Albrook Field, was encamped at the aerial gumnery base at Rio Hato for two weeks of gunnery and field maneuvers, October 3rd to 17th.

The 24th Pursuit Squadron, Albrook Field, arrived at the aerial gunnery base at Rio Hato on October 17th to engage in a two-week period of aerial gunnery practice.

The 44th Reconnaissance Squadron, Albrook Field, was encamped at the aerial gunnery base at Rio Hato for a period of three weeks, beginning December 1st, to engage in aerial gunnery and field maneuvers.

During the latter part of November and early part of December, the 74th Attack Squadron of Albrook Field was engaged in live bonking and gummery practice, utilizing as targets aluminum Slick on the surface of Panema Bay.

Air Corps Tactical School

About 23 airplanes and a convoy of trucks, carrying 38 officers and 78 enlisted men, departed from Maxwell Field, Ala., on October 26th for Eglin Field, Valparaiso, Fla., to participate in aerial gunnery practice over the week end.

Philippine Department

Early in the fall, Air Corps officers of the 4th Composite Group at Nichols Field, P.I., completed aerial gunnery and bombing practice. Of the 14 officers participating, ten made qualifying scores.

The 2nd Observation Squadron, Nichols Field, conducted cooperative training missions with the 60th Coast Artillery regiment, stationed at Fort Mills, P.I., two missions being carried out daily, involving anti-aircraft and machine gun training.

The 2nd Observation Squadron, Nichols Field, conducted its annual 15-days' field training period from November 28th to December 12th, utilizing the Del Carmen Sugar plantation in Pampanga, about 75 kilometers north of Manila, as the base of operations. The strength of the command in the field was 9 officers and 96 enlisted men, utilizing 9 airplanes,

Miscellaneous Air Corps Organizations

Personnel of the 1st Observation Squadron. Marshall Field, Fort Riley, Kansas, during the period from May 2nd to 10th, participated in day and night missions in connection with the Cavalry School's 'Field Exercise Maneuver No. 1.'' Included in these activities were reconnaissance missions; liaison missions, utilizing radio and dropped messages; and photographic missions, including shots of troops in action and photographs of each day's bivouac.

The 22nd Observation Squadron (Corp's and Army) stationed at Brooks Field, Texas, furnished the air observation for the Proposed Infantry Division Maneuvers and for the Proposed Cavalry Division Maneuvers. The personnel of this Squadron demonstrated ability in locating positions, movement of troops, and other activities.

The 1st Observation Squadron, stationed at Marshall Field, Fort Raley, Kansas, spent two weeks (August 28th to September 11th) at Camp McCoy, Wisconsin, participating in maneuvers of the 14th Brigade (Reinforced).

Flight B of the 16th Observation Squadron, stationed at Lawson Field, Fort Benning, Ga., completed on September 24th a two-week period of aerial gunnery training at Eglin Field, Valparaiso, Fla. Eight officers and 20 enlisted men, with two Field Artillery officers and one Medical officer attached, participated in this encampment.

Air Corps National Guard Organizations

The 120th Observation Squadron, Colorado National Guard, conducted its annual encampment at its home base, the Municipal Airport, Denver, Colo., from August 1st to 15th.

The 154th Observation Squadron, Arkansas National Guard, returned September 3rd from V-8013, A.C. Eglin Field, Valparaiso, Fla., after completing one of the most successful field training periods in its history. During this 10-day period, practically all pilots and observers of this outfit qualified in aerial machine gummery. The total flying time during this encampment was 363 hours and 35 minutes. All pilots were afforded the opportunity of flying the North American 0-47A Observation plane, and they handled it perfectly.

DEMONSTRATIONS AND REVIEWS

The entire student class of the Air Corps Tactical School, Maxwell Field, Als., and most of the instructors, attended the GHQ Air Force demonstration at Barksdale Field, La., on February 5th. The demonstration was staged principally to give the students an idea of the use of the Attack, Bombardment and Pursuit arms of the GHQ Air Force. The students and faculty of the Tactical School made the trip to Barksdale Field by air.

Participating in this demonstration were four B-18 Bombardment airplanes from Hamilton Field, Calif., these planes returning to the home station on February 7th; also three 3-17 Bombardment planes from the 96th Bombardment Squadron of Langley Field, Va., and one attached from the 20th Bombardment Squadron from that station, which demonstrated the method of attack on an outlined target, using various types of bombs and fuzes. Organizations stationed at Barksdale Field also participated in this demonstration.

On the morning of April 27th, Army planes from France and Albrook Fields, led by Brigadier General George H. Brett, Commander of the 19th Wing, Air Corps, flew in an aerial review honoring Major General David L. Stone, Panama Canal Department Commander, upon his arrival at Cristobal, Canal Zone, from the United States.

On August 4th, Pursuit, Attack and Bombardment airplanes of the 19th Wing welcomed President Roosevelt when he arrived in the Panama Canal Zone to make a tour of inspection. The entire Wing passed in review on the port beam of the Cruiser U.S.S. HOUSTON as she steamed into the Pacific entrance of the Panama Canal. At 4:35 p.m., the following day, when the President and his party arrived at France Field and the nation's Chief Executive proceeded with his inspection, all the Air Corps troops were formed in front of the line of airplanes in Group Review formation. Brigadier General George H. Brett, Commander of the 19th Wing, was among the officials selected to accompany the President on automobile tours of inspection of both Army and Navy defense establishments in the Canal Zone.

Brigadier General George C. Marshall, Assistant Chief of Staff, and Major General Frank M. Andrews, Chief of the GHQ Air Force, while making a tour of Air Corps stations, made an inspection of Kelly Field, Texas, on the morning of August 17th.

Cadets from the United States Military Aca-

demy, West Point, New York, witnessadron, August 17th a bombing demonstration, staged by the 2nd Bombardment Group over Plumitzeen: Island, near Langley Field.

During the National Air Paces at Cleveland, Ohio, September 3rd to 5th, the 27th Purguit Squadron of the 1st Pursuit Group, Selfridge Field, Mich., flying Seversky single-seater Fighters, staged demonstrations of tectical maneuvers and formation flying. The sir Corp also furnished a ground exhibit of the standard modern types now utilized by the Army Air Corps.

Before students of the Command and General Staff School of Fort Leavenworth, Kansis, For Riley, Kansas, on October 20th, was the scene of a demonstration by all branches of the Arm Air Corps of bombing and machine guinning of silhouette targets. Attack, Bombardment and Pursuit units of the 1st and 3rd Wings of the GHQ Air Force participated in this demonstration.

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The 19th Wing in the Panama Canal Departmen staged a Review on September 7th, honoring it departing Commander, Brigadier General George H. Brett, Air Corps, who sailed for the Unite States on September 9th.

Twelve B-17 airplanes of the Second Bombard ment Group took off from Langley Field, Va., for March Field, Calif., to participate in th exercises incident to the American Legion Con vention, held early in September at Los Angeles, Calif.

A demonstration of the use of divisional artillery was staged at Fort Benning, Ga., by the Infantry School on the afternoop of Novem ber 14th for the benefit of the entire class of 76 students attending the Air Corps Tactic al School, Maxwell Field, Ala.

EXERCISES AND MANEUVERS

Tectical squadrons and groups of the Second Wing, GHQ Air Force, concentrated in Florida during the period from March 14th to 31st for their annual field exercises. The area enbracing central and north Florida was selecte for the exercises. The 17th Pursuit Squadron of the 1st Pursuit Group, Selfridge, Field; Mich., was based at Tampa, Fla. The Second Bombardment Group, with a personnel of 55 officers, 225 enlisted men and equipment comprising 9 B-17 Bombardment planes, 3 Douglas B-18 Bombardment planes and 2 A-17 Attack planes, was based at Orlando, Fla. The 8th Pursuit Group of Langley Field, Val, mas base at Sarasota, Fla., and comprised 25. officers and 143 enlisted men, utilizing 22. FB-2[aarplanes. The 9th Bombardment Group: of Mitchel Field, N.Y., comprising 37 officers and 310 enlisted men, with 21 B-10B Bombardment planes, was based at Lakeland, Fla. d.rol One of the prime objects of the Field Exer-cises was to test the new aircraft with which -8-V-8013, A.C.

the Wing was equipped. In addition to the problems of supply, maintenance and repair, an intensive study was made of the comparative performance of new and old aircraft. The Bombardment and Pursuit planes were tested at all altitudes and under all possible conditions, and much useful information was acquired for future reference. At the conclusion of the Exercises, it was the concensus of opinion that much had been accomplished to benefit the Second Wing with respect to the development of the air defense of this country.

During the month of March, the 5th Bombardment Group, Hawaiian Department, participated in joint maneuvers with the U.S. Navy. A considerable amount of valuable information was gained in connection with the problems inherent in the defense mission in the Hawaiian Islands.

May 18th saw the completion of the GHQ Air Force Maneuvers on the East Coast, during the course of which 19 temporary air bases were utilized. The tactical situation assumed was that of defending the northeastern section of the United States from attack by a "coalition of Asiatic and European Powers." Statistics disclosed that 2,285 plane hours were flown in actual operations, involving 340,254 miles.

actual operations, involving 340,254 miles. Three Provisional Transport Squadrons were utilized in transporting officers and men to the various airdromes where the Air Corps units were based during the Maneuvers. The three Wing Commanders with their respective staffs reached the maneuver area on May 3rd.

reached the maneuver area on May 3rd. The Headquarters of the 1st Wing, commanded by Brigadier General Delos C. Emmons, was set up at New Haven, Conn.; the Headquarters of the 2nd Wing, commanded by Brigadier General Arnold N. Krogstad, was based at Middletown, Pa., and Mitchel Field, N.Y., was the base of operations of the 3rd Wing, commanded by Brigadier General Frederick L. Martin.

During the course of the two weeks of Maneuvers, Major General Frank M. Andrews, Commanding General of the GHQ Air Force, and his staff, arranged for the extensive tests of new portable field equipment.

One of the interesting incidents in connection with the Maneuvers was the reconnaissance flight of three B-17 "Flying Fortresses" 750 miles out to sea to find the entirely friendly Italian liner REX. The pilots on this mission were Major Caleb V. Haynes, Captains Cornelius Cousland and Archibald Y. Smith. Handicapped by line squalls and wind shifts, the pilots neverthaless navigated accurately, and after four hours of flying sighted the steamer. Circling the vessel, much to the surprise of the passengers and crew aboard it, the airmen then returned to Mitchel Field on schedule, despite adverse weather conditions.

Second in interest to the long range reconnaissance flight was the "blackout" of Farmingdale; L.I., New York. The officials and residents of this community responded to this air raid drill with enthusiastic cooperation.

Joint.Anti-aircraft-Air Corps Field Exercises Mere held during the period October 3-17, 1938, Wat Fort Bragg, N.C., and its vicinity, the Air

Corps organizations participating being the 33rd and 36th Pursuit Squadrons, Hgrs. and Hgrs. Squadron of the 8th Pursuit Group, the 2nd Wing Headquarters, and the 2nd Bombardment Group, all of Langley Field, Va.; the 27th Pursuit Squadron, 1st Pursuit Group, of Selfridge Field, Mich.; the 9th Bombardment Group, Mitchel Field, N.Y., and the 18th Reconnaissance Squadron of that station; one Attack Squadron of the 3rd Wing, Barksdale Field, La. and one Bombardment Squadron of the 1st Wing, March Field, Calif.

The exercise involved the concentration of a large percentage of the Regular Army antiaircraft artillery in the United States.

In addition to the heavy concentrations of anti-aircraft and Air Corps defense equipment, civilian aid was enlisted on a large scale in the installation of an extensive aircraft warr ing not encircling Fort Bragg with a radius reaching to the North Carolina coast. The general function of the warning not was to warn the defended area of the approach of any hostile aircraft in order to provide for interception by defending Pursuit aviation and immediate defensive action by the anti-aircraft artillery.

The work during this period was very intense for both flying and ground personnel. Many missions were executed day and night at high altitudes.

Squadrons of the 5th Bombardment Group in the Hawaiian Department participated in the joint anti-aircraft-Air Corps exercises held in that Department from November 5 to 16,1938.

CHANGES IN ORGANIZATIONS AND STATIONS

War Department orders were issued on January 20th, transferring the 31st Bombardment Squadron from Hamilton Field, Calif., to the Hawaiian Department.

The 31st Bombardment Squadron, from Hamiltor Field, Calif., arrived in Honolulu on February 23rd, and was assigned to station at the new Hickam Field.

The designation of several squadrons stationed in the Hawaiian Department was changed, effective February 28th. The 4th Observation Squadron was renamed the 4th Reconnaissance Squadron, and the 65th Service Squadron was redesignated as Base Headquarters and 17th Air Base Squadron.

On March 1, 1938, the 75th Service Squadron at Wheeler Field, T.H., was redesignated as the Base Headquarters and 18th Air Base Squadron.

During the month of April, the 72nd Bombardment Squadron was moved from Luke Field, $T_{\bullet}H_{\bullet}$, to the new Hickem Field.

On June 15th, work was started incident to the exchange of stations between the 28th Bombardment and the 3rd Pursuit Squadrons in the Philippines. The 28th Bombardment Squadron was transferred from Nichols Field to

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Clark Field, and the 3rd Pursuit Squadron from the latter field was transferred to Nichols Field.

FLOOD RELIEF OPERATIONS

During the disastrous flood in Southern California the first week in March, Air Corps personnel from March Field, Riverside, Calif., aided in rescue work and performed various other missions to help relieve the situation. Un the direction of Brigadier General Delos C. Under Emmons, 1st Wing Commander, the 38th Reconnaissance Squadron photographed inundated areas; the 17th Attack Oroup constantly flew over the flooded sections, directing and facilitat-ing the rescue work by means of radio communication, dropped food to people in marconed communities and towns and acted as a news agency in the dissemination of actual and unexaggerated reports of conditions, in addition to assisting the direction of outside help. During the period from March 3rd to 15th, the 17th Attack Group, under the command of Major Carlyle H. Wash, Air Corps, conducted 37 missions, involving a total flying time of 51 hours and 40 minutes. Of these, 14 missions were flown to locate merconed people; 4 to locate washed out roads; 8 to locate destroyed bridges; 6 to check the condition of dams; 2 to check broken power lines; 2 to drop food to marconned people, and one liaison mission to Los Angeles, Calif.

From April 8th to 11th, heavy rains in the vicinity of Maxwell Field, Ala., caused the Alabama, Coosa and Tallapoosa Rivers to go on a rampage and to cause considerable damage to the section between Maxwell Field and the coast. Several portions of Maxwell Field were flooded, necessitating the removal of ammunition and other supplies to higher ground.

TORNADO RESCUE WORK

On March 15th, a tornado having laid waste to an area of eight blocks of the City of Belleville, Ill., Air Corps personnel from Scott Field, Ill., were promptly dispatched to the scene of the disaster, where they aided in rescus work, and performed guard duty to prevent looting until the arrival of National Guard troops.

AERIAL PHOTOGRAPHIC ACTIVITIES

Photographic personnel of the Air Corps Advanced Flying School, Kelly Field, Texas, began on January 18th a project involving the mosaic mapping of an area of approximately 950 square miles around Fort Clark, Texas. This mapping work was for the use of the 1st Brigade at Fort Clark.

During the period April 9th to 13th, photographic personnel at Maxwell Field, Ala., performed almost continuous photographic missions for the Corps of Engineers, relief agencies and the press, during which approximately 1200 square miles of river basins were photographed with two multi-lens cameras. Army airmen in the Philippines took a numbe of interesting photographs of Mt. Mayon, the world's most perfect volcano, which started i eruption on June 4th, after ten years of inac tivity. Thousands of natives were forced to flee from their homes as a result of the mor mous lava flow from this volcano.

Photographic work was completed in August for a mosaic, embracing 3500 square miles, by the 1st Observation Squadron, stationed at Marshall Field, Fort Riley, Kansas. This wor was done for the Command and General Staff School, Fort Leavenworth, Kansas.

ERRANDS OF MERCY, SEARCH MISSIONS, ETC.

Six airplanes of the 28th Bombardment Squad ron, Clark Field, P.I., participated in a search for the "Hawaii Clipper" reported miss ing on July 28th. The search was carried out for four days, in cooperation with Navy aircraft. Planes from the 4th Composite Group covered approximately 127,000 square miles without mishap. No trace was found of the "Clipper."

On the afternoon of December 28th; an aeria search was initiated for a Naval officer reported overdue at Coco Solo, enroute from David, Republic of Panama. Advice being late received that the officer had effected a forc ed landing at an auxiliary landing field near the town of La Mesa, two A-17 planes, flown t Lieuts. Clark and Gent, were dispatched to that field, accompanied by Lieut. Colonel W. S Woolford, Medical Corps, Flight Surgeon. The injured officer was taken care of and returned to his home station.

RADIO BROADCASTS FROM AIRPLANES

A successful radio broadcast from the Lockheed XC-35 substratosphere airplane was a complished on January 22nd by Major Carl F. Greene and Lieut. E.H. Beebe, Air Corps, the plane being piloted by Lieut. L.F. Harman, Ai Corps, and the broadcast being made while fly ing at an altitude of 21,000 feet over Chicag Ill.

On April 3rd, in cooperation with the Natio al Broadcasting Company, a radio broadcast wa conducted in honor of Army Day. One broadcas was from the XB-15 airplane flying over New York City, with Major General Oscar Westover, Chief of the Air Corps, at the microphone, an the other was from the Air Corps substratosphere airplane, flying at an altitude of 33,000 feet over New York City, with Major Carl F. Greene, Air Corps, at the microphone. The latter flight happened to be a record one for the substratosphere airplane which, of course, is not built to accomplish altitude records but to serve as an experimental laboratory for the study of the practicability of comfortable flights between 20,000 and 40,000 feet altitude.

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TOGETHE B THE GONSTRUCTION AT AIR CORPS POSTS

The theater at Hamilton Field, Calif., a mas officially dedicated on April 7th by Colo-nel Horace F. Sykes, Adjutant General of the 9th Corps Area, and Ligut. Colonel C.W.Russell, Commanding Officer of Hamilton Field.

Nork started on July 27th at Kelly Field. Texas, on a construction project, costing \$520,000, involving 8 sets of officers' quar-ters and 9 double sets of noncommissioned officers quarters.

CELEBRATION OF AFMY DAY

On Army Day, April 6th, at Langley Field, Va., various types of airplanes of the Second Wing were parked at various localities to enable visitors to inspect them. At one o'clock one squadron each of Pursuit planes, 'Tlying Fort-resses", B-18's and Observation planes were flown in the vicinity of the Paninsula on tactical missions to enable residents of nearby cities and towns to see them in action.

At Chanute Field, Rantoul, Ill., thousands of citizens of surrounding communities visited

the field to inspect the activities of the Air Corps Technical School. At Wright Field, Dayton, Ohio, by virtue of an invitation issued through the Dayton news-pepers, thousands of visitors took advantage of the "Open House" at that Air Corps activity in connection with the celebration of Army Day, The Army Aeronautical miscum mes-open to the public, and a hangar was devoted to an axhibition of new types of Army aircraft. Despite the rainy weather, a crowd, estimated at between 5,000 and 6,000 persons, was present at the field. A flying exhibition was attempted, but it was necessary to curtail it due to the unfavorable weather.

Students of the Air Corps Advanced Flying School, Kelly Field, Texas, attended on Army Day's demonstration by the Second Division at Fort Sam Houston, Texas: In the afternoon a program was staged at Kelly Field to which the public was invited. This program included an inspection of the airplanes on the line, blind landing demonstrations, student flying by the Pursuit and Attack Sections, inspection of the miniature range, a Link Trainer demonstration, and a description over a public address system of the airplanes displayed, as well as a description of the blind landing method while this demonstration was in progress.

AIR CORPS EXHIBITS

Thithe International Air Show at Chicago, . All gov January 28th to February 6th, the Army Air Corps, allotted a space of approximately 5,000 square feet in the exposition building exhibited the latest type of Curtiss Attack and -Seversky Pursuit airplanes, also the Kellett ined Pratt & Whitney aircraft engine alongside the original Wright Brothers' 4-cylinder engine, a 3-bladed propeller, the 9-lens aerial camera, and two transparency cabinets presenting the newest types of military airplanes. 3 & 1, 108-71

At the 28th Annual Orange Show at San Bernardino, Calif., held for a 10-day period ending Merch 27th, the Army Air Corps for the first time arranged an aeronautical exhibit. This consisted of airplane engines, parachute and photographic equipment, airplane instruments, bombs and Ordnance equipment. The Show drew an attendance of more than 200,000 people and more than 20,000 people inscribed their names in the register at the aeronautical exhibit.

CONFERENCES, REUNIONS, DEMONSTRATIONS, ETC.

The first National Aviation Planning Conference was held at Cleveland, Ohio, on January 11th. Major General Oscar Westover, Chief of the Air Corps, was one of the principal speakers at this conference.

Some 2500 members of the Southern California Army Ordnance Reserve Association and their families visited March Field, Calif., on March 20th, where they were welcomed by Brigadier General Delos C. Enmons, 1st Wing Commender. Speeches were made by various officials, and the demonstrations during the day included anti-aircraft gun drills by a detachment of the 63rd Coast Artillery; an attack by Attack type airplanes; the loading of various types of bombs; dropping of bombs and curtains of water representing chemicals; firing of field guns of various types and the loading of Bombardment airplanes. All types of weapons and military equipment were on display.

Luncheon was provided for all visitors at the various squadron messes and the Officers' Club, following which Army Ordnance pictures were shown at the Post Theater.

Army and Navy flying personnel in the Panem Canal Department fittingly commemorated the Silver Anniversary on April 27th of the first airplane flight over the Panama Canal, which was made by one of the pioneer aviators, Robert Fowler, when, flying a hydroplane, he covered the distance of 35 miles between the two oceans in 57 minutes. Six Army Bombers convoyed an airplane of the Pan American Airways from Albrook Field to France Field.

National Air Mail Week, May 15th to 21st. was fittingly observed at various Air Corps fields and stations.

On June 27th, more than 12,000 residents of Denver, Colo., and vicinity, took advantage of Lowry Field's first 'Open House' to see how the Air Corps lives and to view the equipment used in teaching the students the subjects of armament and photography.

The remaining members of the 50th Aero Squadron, A.E.F., which organization found the Lost Battalion during the World War, staged their annual reunion for the first time in Washington, D.C., from September 3rd to 6th. This is the only World War outfit with a continuou: record of reunions.

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GOOD WILL FLIGHTS

Flying the flags of Chile, Argentina, Peru and the United States from their cockpits, six B-17 Bombers of the 1938 Good Will Flight to Buenos Aires, Argentina, under the command of Lieut. Colonel Robert Olds, Commanding the 2nd Bombardment Group, GHQ Air Force, taxied onto the landing mat at Langley Field, Va., at 5:00 p.m. on February 27th.

The flight took off on the trip to the capital of Argentina on the morning of February 15th, and reached the airport at Miami, Fla., 5 hours and 45 minutes later. Shortly before 1:00 a.m., February 16th, the flight again took the air and, after covering a distance of 1100 miles, a assembled over Colon, Panama. Faced with unfavorable weather conditions which were reported at the equator, it was novertheless decided to continue the journey southward for the remainder of the flight to Lima, Peru, part of which, about 300 miles, was made above an equatorial storm at an altitude of approximately 23,000 ft. Lima were reached at 4:25 p.m. The six planes made the record non-stop flight of 2695 miles in 15 hours and 32 minutes.

At 11:05 p.m., February 16th, five of the B-17's took off for Buenos Aires, Major Meloy, piloting the sixth plane, being delayed at Lima due to a defective propeller. The flight landed at the Buenos Aires airport in slightly more than 12 hours after leaving Lima. At one stage of this flight, the Army airmen flew at an altitude of 21,000 feet.

Major Meloy, leaving Lima 7 hours and 15 minutes following the departure of his companions, and after an all-night job on the defective propeller, landed at the field at Buenos Aires aft r a flight of 11 hours and 5 minutes, he having taken off from Lima at 6:20 a.m., February 17th.

While at Buenos Aires, the Army airmen participated in the inaugural ceremonies for the new President of the Argentine Republic. Five of the airplanes departed on the honeward-bound journey on the morning of February 22nd, at 7:10 o'clock, Captain A.Y. Smith, piloting one of the planes, being delayed at the airport five hours due to a mishap to one of the landing wheels. The five planes landed at Santiago, Chile, at 12:05 p.m. The next morning, at 8:00 o'clock, they took off, and landed at Lima at 5:05 p.m. Here Captain Smith joined the flight, he being further delayed by engine trouble.

On February 25th, the flight took off for Panama and landed at Albrook Field after a 9hour flight. At 6:00 a.m., February 27th, the flight took off from Panama for the final leg of the homeward-bound journey and reached Langley Field in 10 hours and 45 minutes.

The 19th Wing, Air Corps, Panama Canal Department, under the command of Brigadier General George H. Brett, departed from Albrook and France Fields on February 7, 1938, on an extended navigation and Wing concentration flight to Guatemala City, Guatemala. A total of 80 officers and 70 enlisted men made this flight in various types of airplanes. Departure from Guatemala City was effected on February 11th and, after an overnight stop at San Jose, Costa Rica, by 3:30 p.m., February 11th, all of the ed at the home stations.

The second Good Will flight during 1938 of Army airplanes to a South American Republic to represent the United States at the inauguration ceremonies of a President-Elect, terminated successfully at Langley Field, Va. The point from which it started - on the afternoon of August 12th. Three B-17 airplanes participating in this flight, led by Major Vincent V. Meloy, Air Corps, negotiated the long voverland and water journey to Bogota, Colombia, and Teturn without incident. The two other S-17 planes in this flight were piloted by Majors Harold L. George and Caleb V. Haynes.

The flight took off from Langley Field at 9:00 a.m., August 3rd, and landed at the Miami Manicipal Airport at 2:35 p.m., covering 950 miles in about 55 hours. Taking off from Miami at 3:00 a.m., August 5th, the Army airmen landed at the airport at Bogota about 65 hours later.

The visitors were the guests of the factor Colombian government during their stay at Bogota and, in addition to attending the inaugural ceremonies for the President Electric they were special guests at a number of receptions tendered in their honor by military personnel and civilians of the Colombian capited and by the American Ambassador.

The return flight to Langley Field was started at 9:15 a.m., August 9th, and France Field, Panama Canal Zone, a distance of 680 miles, was reached in 3 hours and 17 minutes.¹¹ Taking off from the Canal Zone at 8:30 a.m., August 11th, the airport at Miami, Fla., was reached at 2:45 p.m. The flight departed from Miami at 9:30 a.m., August 12th, and landed at Langley Field at 1:45 p.m.

LONG-DISTANCE FLIGHTS

Among some of the long-distance flights made during the year 1938 were the following:

Randolph Field, Texas, was visited on February 2nd by a flight of 13 B-18 airplanes, inder the command of Colonel Harvey S. Burwell, Air Corps, which was enroute from March Field, Calif., to Barksdale Field, La.

On April 22nd, Lieut. Colonel Robert Olds, with a crew of 3 officers and 5 enlisted mpn, in a B-17 airplane, established a record flight from the West Coast to Langley Field; Va., the flying time being 10 hours and 45 minutes, thus bettering by 16 minutes his previous record for this same flight which was established in February. The flying time on the westward journey to March Field was 12 hours and 27 minutes, and eclipsed the previous record by one hour.

Piloting an A-17 Attack airplane, Major General Oscar Westover, Chief of the Air Corps, accompanied by Staff Sergeant Samel Hymes, crew chief, took off on May 13th; from Brownsville, Texas, for Panama, via Wara Cruz, Mexico, and Guatemala City, Guatemala, Thi purpose of General Westover's flight to Fanama was to inspect Air Corps activities in the

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Canal Zone. General Westover landed at Albrook Field on the morning of May 15th, and, after remaining in the Canal Zone for the period of a week, he took off on May 22nd for the return flight, following the same route as on the southbound journey. He reached Washington, D.C., on May 25th.

Ten B-10 airplanes of the 6th Bombardment Group, stationed at France Field, Panama Canal Zone, were flown to San Salvador, Salvador, and return, by way of San Jose, Costa Rica. The flight, which took off on April 19th, was led by Lieut. Colonel George E. Lovell, Jr., Air. Corps, and consisted of 20 officers and 20 enlisted men. The American airmen were cordially received and entertained by high officials at bhe empital cities of both of these Central American Republics.

Flying a new Seversky P-35 Pursuit plane, 1st Lieut. Harold L. Neely, Air Corps, on July 28th, flew across the American continent at a speed of approximately 278 miles per hour, his total elapsed time being 11 hours and 29 minutes. Stops for refueling were made at Salt Lake City, Omaha and Cleveland, for a total time of one hour and 35 minutes, thus making Lieut, Neely's flying time across the continent 9 hours and 54 minutes.

Frevailing winds aided the speed record of a B-18 Bomber on the first transcontinental nonstop flight ever made in a craft of this type. Taking off from Hamilton Field, Calif., on August 19th, the plane, piloted by 1st Lieut. John G. Armstrong, of the 11th Bombardment Squadron, Hamilton Field, Calif., landed at Mitchel Field, N.Y., 15 hours and 38 minutes later. The distance traveled was 2570 miles.

Lieut. Colonel Ralph H. Wooten, Air Corps, detailed as Air Attache to Bolivia and Chile, left Bolling Field, D.C., on August 16th in an A-17 Attack plane for his new post of duty. Flying via Brownsville, Texas; Guatemala City, Guatemala; Albrook Field, Panama Canal Zone; Cali, Colombia; Guayaquil, Ecuador; Talura and Lima, Feru, and Antofagasta, Chile, he arrived at Santiago, Chile, on August 28th.

Major General Henry H. Arnold, Chief of the Air Corps, arrived at Hamilton Field, Calif., by plane, from Washington, D.C., on December 7th, for the purpose of making an inspection of that air base and the Air Depot at Sacramento, Galif. On his return trip to Washington he visited the Air Corps Primary Flying School at Randolph Field, Texas, December 10th, and made a formal inspection of that School.

ROUND THE WORLD FLIGHT BY HOWARD HUGHES

Through his remarkable achievement of encircling the globe and covering a distance of 14,524 miles in 917 flying hours, Howard Hughes, Imerica's No. 1 Sportsman Pilot, demonstrated once more the supremacy of the United States in aviation. Hughes took off from the Floyd Bennett Airport at 6:20 p.m., July 10th, and on the afternoon of July 14th, at 1:34 o'clock, the wheels of his special Lockheed monoplane rolled to a stop at this same airport.

Hughes reached Paris, France, on Monday, July 11th, at 10:55 a.m., crossing the Atlantic and covering a distance of 3641 miles in 16 hours and 35 minutes. The next leg of the flight to Moscow, U.S.S.R., a distance of 1675 miles, was covered in 7 hours and 49 minutes, Omak, U.S.S.R., 1380 miles distant, was reached in 7 hours and 35 minutes, and Yakutsk, Siberia, 2177 miles distant, in 10 hours and 31 minutes. The next and longest leg of the entire flight, involving a distance of 2456 miles to Fairbanks, Alaska, was covered in 12 hours and 17 minutes. The flight to Minneapolis, Minn., 2441 miles distant, required 12 hours and one minute, and the 1054-mile lap to Floyd Bennett Field was negotiated in 4 hours and 23 minutes.

Major General Oscar Westover, Chief of the Air Corps, made a special flight to New York to extend in person his hearty congratulation to the globe-encircling airman for this epochal feat. Messages of congratulation were wired to Hughes by Brigadier General Henry H. Arnold, Assistant to Chief of the Air Corps, and by Major Lowell H. Smith, Air Corps, who was the leader of the Army Air Corps Aroundthe-World Flight in 1924.

Associated with Mr. Hughes on this flight was 1st Lieut. Thomas L. Thurlow, Air Corps, stationed at the Air Corps Materiel Division, Wright Field, Dayton, Chio, who served as one of the two navigators on this record flight.

THE XB-15 BOMBARDMENT AIRPLANE

The flight-testing of the new XB-15 Bombardment airplane commenced the latter part of February at Wright Field, Dayton, Ohio, with Major S.M. Unstead and Lieut. L.F. Harman at the controls. Preceding this flight test, the huge airplane underwent a thorough inspection by Materiel Division engineers. This fourengined formidable weapon of the air was delivered to the 2nd Bombardment Group at Langley Field, Va., on August 6th, being piloted by Lieut. Colonel Robert Olds, commanding that Group.

DROPPING FOOD FROM PLANE TO CAVALRY DETACHMEN.

During a period of four days, beginning on April 14th, tests were conducted in the Big Bend District of Texas, in the vicinity of Balmorhea, with respect to the practicability of utilizing an airplane to drop food for personnel and grain for animals. A detachment of troops in the field, the first platoon of Troop A, 30th Cavalry, consisting of 30 men and 30 horses, was assumed to be completely isolated in a mountainous region where it was impossible for an airplane to land. It was necessary for more than 1,000 pounds of supplies to be dropped daily from a B-10 Bomber. All of the supplies, except hay and wood, were dropped in special containers supported by individual parachutes. The plane was flown at an altitude of 400 feet, and all but three out of 20 bundles dropped from the plane landed within 300 yards of a panel which was laid -13-V-8013, A.C.

the first day. The report stated that the test to a civilian who was seriously ill constitut was highly satisfactory, adding that only two eggs were cracked out of four dozen delivered.

A NEW CRASH RESCUE BOAT

The F-11, intended for use in the Hawaiian Islands as a sea-going crash rescue boat, was launched at Greenport, L.I., New York, on March 18th, the ceremony being witnessed by over 300 persons. This vessel, reported to have a speed of 32 knots per hour, is 72 feet long, thoroughly streamlined, and powered with two Capitol P-12 engines converted for marine use.

STANDARDIZATION OF AFRONAUTICAL SPECIFICATIONS

For the purpose of obtaining the standardization of aeronautical specifications between the Army and the Navy, a new Army-Navy Aeronautical Specification Unit was established at the Air Corps Materiel Division at Wright Field, Dayton, Ohio, the administrative control thereof being vested in the Chief of the Materiel Division and the executive control in the permanent working committee of the Aeronautical Board in Washington, D.C.

NEW METHOD OF TESTING LIQUIDS

The Materiel Division, Wright Field, Ohio, installed in its material laboratory a new supercentrifuge, in which from 30,000 to 40,000 revolutions per minute can be obtained -ten times the speed of the usual centrifuge. Used for the clarification of viscous liquids, tests can be completed in about twenty minutes with this laboratory model which would ordinarily would take a day.

AVIATION TRAINING FOR WEST POINT CADETS

During the period from June 18th to July 9th, 456 West Point cadets of the Class of 1939, received a practical test of the way the Army Air Forces are employed at Mitchel Field, N.Y. The cadets displayed a keen interest in military aviation.

PERFECT RECORD FOR BOMBARDMENT SQUADRON

The 31st Bombardment Squadron at Hickam Field, T.H., accomplished what is believed to be a record when it finished the Fiscal Year 1938 without an aircraft accident of any nature.

EXCHANGE OF AIRPLANES

A total of 25 Boeing P-12 airplanes, assigned to the Air Corps Tactical School at Maxwell Field, Ala., was transferred in June to the Air Corps Advanced Flying School at Kelly Field, Texas. These planes were replaced at Maxwell Field with 14 P-6's.

AN EFRAND OF MERCY

On April 20th, Lieut. T.J. Meyer, Air Corps, made a 150-mile flight in a Douglas Amphibian from Albrook Field, Panama Canal Zone, to Penas

out, according to a report covering the test on |Bay, Republic of Panema, to transport medicine

ARMY PLANE FLIES ALMOST SIX MILES A MINHUE

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On October 26th, Lieut. Benjamin S. Kelsey, Air Corps, flew a new Army Pursuit plane from Dayton, Ohio, to Buffalo, New York, at an average speed of 350 miles per hour. Lie Lieut. Kelsey stated that this was a record for an Army Air Corps plane.

NAMING OF FIELD AT FORT LEWIS, WASH.

Announcement was made by the War Department under date of April 12, 1938, that the Air Corps flying field at Fort Lewis, Mash., had been named "Gray Field," in memory of Captain Hawthorne C. Gray, Army aeronaut, who lost hi life during a free balloon flight from Scott Field, Ill., on November 4, 1927.

CONTRACTS FOR AIRPLANES AND ENGINES

During the calendar year 1938, the award of contracts for airplanes and engines were announced by the War Department on the dates: indicated, viz: Has oreal

January 4. To the United Aircraft Corporation in the amount of \$318,521.67, covering the purchase of spare parts for 315 Model R-1830-13 engines, these spare parts being procured for the engines now serving as nower plants in P-26A airplanes. Also a contract to the above company for 142 Model Re1340-47 engines and spare parts for installation in BC-1 airplanes constructed at the plant of the North American Aviation Corporation, Inglewood Calif., at a total cost of \$866,800.59. met

March 25. To the Douglas Aircraft Company, Inc., for the procurement of spare parts for the Northrop Attack airplanes in the statal amount of \$210,741.71. - a d La calent ಜಾರ್ ಇಗಿಗಾ

May 21. To the Bell Aircraft Company, Buffalo, N.Y., for 13 YFM-1 Fighter planes at a total cost, including spares, of \$3,168,265.

July 1. Contracts totalling the sum of be \$14,433,196.88 for 98 airplanes and extensive Air Corps equipment. Included in these contracts was one covering the purchase of 18 additional 'Flying Fortresses'' (B-17's) at a total cost of \$3,174,802.05; 78 additional B-18A Bombardment planes at a cost of \$5,703,287.64; 7 YA-19 Attack airplanes at a total cost of \$297,180; four large engine contracts, totalling \$2,573,286.65, for 276 of different types. Other contracts were for propellers, trucks, trailers, instruments." cameras and various other accessories.

December 9. To North American Aviation, Inc., Inglewood, Calif., for the construction of 74 0-47B Observation airplanes and spare parts therefor at a cost of \$2,346,128.14; fifty of these airplanes being procured for National Guard Air Corps organizations and the remaining 24 for units of the Air Corps,"Regular Army.

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DEATH OF GENERAL WESTOVER AND HIS MECHANIC

Tuesday afternoon, September 27th, at the Arlington National Cemetery, marked the final rites, with full military honors, for the late Major General Oscar Westover, Chief of the Air Corps, who with his mechanic, Technical Sergeant Samuel Hymes, were killed in an airplane accident at Burbank, Calif., on September 21st. More than 500 persons were present at the cemetery on this sad and solem occasion to pay their last respects to the deceased Air Corps Chief.

The funeral at Arlington National Cometery of Technical Sergeant Hymes took place the preceding day.

NEW RECRUITS FOR SELFRIDGE FIELD

The Selfridge Field Correspondent states that if and when the Army expansion program becomes a law, it is anticipated at that field that a large number of additional recruits will be received. "Preliminary arrangements are being made," he says, "for the housing and feeding of these additional men, together with their training as technical men. No definite word has been received as to the number of this increased allotment, so therefore no information is available as to the method whereby this expansion will take place. Should there be an expansion, the people of this locality will again witness recruits in large bodies going thru their preliminary instruction in 'squads right' etc., the basic training of all soldiers.

The type of recruits received in the last few years at Selfridge Field is very high. The greater percentage of them are high school graduates, and some with college education. They are invariably from fine American families and possess high ideals of character and citizenship. They are anxious to learn and eventually become excellent airplane mechanics or other technical men. The high percentage of reenlistments of these men indicates that it is . not entirely an economic reason why they are in the Army, but because they enjoy the facilities offered by the Service. Because of their high personal characteristics, it is frequently difficult to select one man from a group for promotion A great number of our recent recruits are from neighboring towns and cities. This is particularly advantageous to the morale of Selfridge Field, because these boys are privileged to visit their homes during week ends and holidays. The Army is, indeed, fortunate in "btaining the services of these fine young men. "It, is hoped that should the expansion take

place and more recruits are assigned to Selfridge Field, that the local youths will take advantage of the opportunity to become members of the military units stationed at Selfridge Field,

Major George C. Kenney, Air Corps, was relieved from duty with the 97th Observation Squadron at Mitchel Field, N.Y., and assigned to duty at Wright Field, Dayton, Ohio.

HAMILTON FIELD OFFICERS COMPLETE GROUND COURSE IN CELESTIAL NAVIGATION.

The 88th Reconnaissance Squadron, Hamilton Field, Calif., completed a ground course in celestial navigation in February, 1939, under the instruction of 2nd Lieut. G.E. Pierce, Air Corps. A total of 13 officers took the course, consuming 60 hours in lectures and ground practice during a period of four weeks.

The Squadron is now flying actual navigation missions, and it is expected that all students will be qualified navigators in a short time. At that time, says the News Letter Correspondent, twenty of the twenty-one officers in the Squadron will be rated Celestial Navigators.

NEW CADET BARRACKS AT RANDOLPH FIELD ALMOST READY FOR OCCUPANCY.

Finishing touches are rapidly being added to the first of the two new Flying Cadet Barracks at Randolph Field and, according to the present schedule of work, they will be occupied by April 1st. The March class of Flying Cadets, 339 strong, reported for duty on March 1st, and were immediately assigned to companies and rooms, pending the final completion of the first of the two new barracks.

The Cadet Battalion has been reorganized into four companies by Captain James S. Stowell, Commandant of Cadets, in anticipation of the forthcoming move. The former organization consisted of only two companies.

Randolph Field's second Cadet Barracks under construction was started several weeks after the first, and will not be ready for occupancuntil late May or early June, according to the latest estimates.

Upon final acceptance of the new building by the Air Corps, moving day for 'C'' Company, occupants of the barracks, will be accomplished in short order. The company will probably move en masse from their present location in the east half of 'B' Company Barracks. Upon completion of the move, 'B' Company will take a deep breath and spread out in their own quarters, while 'A' and 'D' Companies will continue to double up until the last of the four barracks is ready for occupancy.

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CONTACT WITH HIGH TENSION WIRE PROVES FATAL

Private Richard H. Gable, Operations Section 1st Air Base, Langley Field, Va., was electrocuted on the night of March 7th, when he brush ed against a high tension wire while taking down a radio mast from an instruction truck.

The accident occurred at 6:20 g² clock on Harris Creek Road, near Bayview Manor in Elizabeth City County. A Board of Langley Field Officers was appointed to investigate the accident.

Private Gable was operating a radio truck used for blind flying instruction when the accident occurred. He enlisted in the Army on July 25, 1934. He is survived by his mothe:

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AMBITIOUS MEN IN 63RD SCHOOL SQUADRON

The scribe for the 63rd School Squadron at Kelly Field, Texas, says that at least 60 men in that organization are qualified for entrance into Chanute Field and are very anxious to get there and that many more men expect to qualify in the near future by passing the Alpha Test. He adds:

"Since the bars have let down, permitting more Kelly Field men to attend the schools at Chanute and Denver, the 63rd has sent more men to these schools than any other squadron. This squadron has had more men gualified for entrance at all times, and the men seem to be fighting for the chance to go to school. Along with the usual technical courses offered in the Squadron School, which runs continuously for three hours weekly throughout the entire year, the squadron occasionally operated a basic educational school to assist the men in passing such examinations as that required fer entrance to the Chanute and Denver schools.

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NEW CARGO AIRPLANE FOR SELFRIDGE FIELD

Selfridge Field, Mich., recently re-ceived as part of its flying equipment a B-18 late type Bomber from Hamilton B-18 late type Bomber from Hamilton Field, Calif. It was ferried to the field by Colonel H.B. Clagett and Major W.R. Sweeley, and will be used as a car-go airplane. Although not as large as the "Flying Fortress" type, the News Letter Correspondent states that it has many of the recent improvements, being of high speed and large carrying capa-city city.

ACTIVITIES IN 8TH PURSUIT GROUP By the News Letter Correspondent

New that the new P-36A has claimed the spotlight in this Group, the old PB-2A's, which are being transferred to Maxwell Field, Ala., create very little interest. The first of the PB's were transferred on March 7th, the flight consisting of 10 airplanes, led by Captain Stuart G. McLennan.

<u>35th Pursuit Squadron</u> Our five latest officers are coming along fine in their familiarization of the P-36A, BC-1, and the PB-2A airplanes. They are especially well pleased with the performance of the P-36A's, which are out to different from the training shine quite different from the training ships they handled while at school.

Although our hangar is very crowded, we are getting along very nicely with our maintenance work. The 35th Squadron shares the hangar with the Hors. and Hors. Squadron, 8th Pursuit Group. Al told there are about 35 planes in the hangar, which makes it plenty hard for _A11

the mechanics. But seeing that nothing can daunt the fight and courage of the 35th, this obstacle has been diminished to a minimum.

The 35th hated to see General Andrews leave Langley Field, but were honored by being in the personnel formation that saw him off. General Andrews was well liked by the 35th.

<u>36th Pursuit Squadron</u> The indoctrination of the newest arrivals from the Training Center is in full swing these days. The PB-2A's and BC-1 are fast being mestered, and the seven new officers are looking forward avidly to the day when they can start bending the throttle on the P-364's. Comes the new regime! With the com-

missioned strength of the Squadron up to 25 officers, the long-cherished dream of having a squadron of flights instead of just a squadron has been realized. The 36th is now composed of three flights led by Contain det the three flights, led by Captain C.K. Hich and Lieuts. J.E. Barr and J.B. League, Jr. The activities of the organiza-tion, operations and engineering are to be handled by flights from now on.

And still the P-36A's keep rolling in. The qualified ferrying pilots the squadron have been making the Buffalo jaunt almost as regularly as the Air Mail. It doesn't irk anyone, though - the more the merrier for all concerned.

The entire squadron regrets exceedingly the departure on March 9th of 2nd Lieut. Stanley T. Wenrick. Stan terminated his active duty in the Air Corps Reserve to take a position with the United Air Lines. He came to Langley Field from Kelly Field in June, 1938, and during his service here had made many lasting friends on the post.

<u>33rd Pursuit Squadron</u> The 33rd Pursuit Squadron welcomes 6502 seven new Second Lieutenants to its midst. The new officers reporting here from the Training Center are 2nd Lieuts. Robert L. Morrissey, Robert B. Mueller, Kyle L. Riddle, Gerhard J. Schriever, Leonard B. Storm and Sullivan P. Turner. Under the instruction of Captain John E. Bodle, the new officers are busy getting acquainted with the new ships. The good old PB-2A's are on their way. Four of them were lost to Maxwell Field last week, and more will probably go in the near future. We all hate to see a good old horse go. ------

Brigadier General Jacob E. Fickel, Air Corps, has been relieved from duty at Headquarters, 9th Corps Area, Presi dio of San Francisco, Calif., and as signed as Wing commander, Air Force, March Field, Calif. V-8013, A.C. signed as Wing Commander, 1st Wing, Guo -16MORE RESERVES RECEIVE REFRESHER TRAINING

Nine more Air Corps Reserve officers reported at Kelly Field to pursue a spereported at Kelly Field to pursue a spe-cial Refresher course, beginning March 18th. They are Second Lieutenants: Wilson Gillis (30) Los Angeles, Calif., (600 hours), Attack Section; Jesse Courts Hayes (30) Shawnee,Okla., (1600 hours), Attack Section; George William Ireland (25), Cincinnati, Ohio (1200 hours) Bombardment Section; Clifford W. Ludwig (27) San Antonio, Texas (1300 hours), Attack Section; Fred Stevens Shine (25), Claremont, Calif. (1200 hours), Pursuit Section; James W. Stowell (30), Memphis, Tenn., (1550 hours), Pursuit Section; John Maurice Tillman (29) Lorain,Ohio, (680 hours), Pursuit Section;

(680 hours), Pursuit Section; William Nixon Vickers, Jr. (25) Beau-mont, Texas. (2500 hours), Bombardment Section;

Andrew Bodwell Walker (29), Miami, Okla. (1900 hours), Pursuit Section. There are a total of 18 Refresher students undergoing training at Kelly Field, specializing as follows: Attack, 5; Bom-bardment, 6; and Pursuit, 7. It is an-ticipated that all the Refresher students at Kelly Field will complete their course within six weeks from the date of reporting...

SNOWSTORM DELAYS ERRAND OF MERCY

Complying with an emergency call for serum from Scottsbluff, Nebraska, Major F.W. Bonfils, Commander of the 120th Ob-servation Squadron, Colorado National Guard, accompanied by Captain Raymond M. Wilson and Technical Sergeant Charles Wast departed from Derver at 9:30 West, departed from Denver at 9:30 o'clock on the morning of March 15th with the serum, but were forced down at Cheyenne, Wyoming, due to a heavy snow-storm. This necessitated forwarding the serum on to Scottsbluff by automobile. -----

RESERVE OFFICERS AT SELFRIDGE FIELD

There were recently assigned to Self-ridge Field, Mt. Clemens, Mich., 32 Re-serve officers, graduates of the last class at the Air Corps Training Center, class at the Air Corps Training Center, thus materially augmenting the officer personnel of the lst Pursuit Group. These young officers are rapidly ac-quiring the technique of flying high speed Pursuit ships, and can be seen al-most every hour of the day familiarizing themselves with this new equipment. Each and every one of these officers is very well pleased that they were As-

is very well pleased that they were As-signed to Selfridge Field, declares the News Letter Correspondent; first, because of the honor of serving with the renowned units of the 1st Pursuit Group, and secondly, because of the ideal locality.

BOMBING DEMONSTRATION AT LANGLEY FIELD

A party of officers, headed by Brigadier General Lesley J. McNair, U.S. Army, witnessed on the morning of March 8th, Langley Field personnel flying in the latest types of Bombardment planes drop deadly demolition bombs on bedraggled Plum Tree Island in the Back River.

The Langley planes went aloft at about ten o'clock. Following the bomb-ing practice, the visiting officers were scheduled to go to nearby Fort Monroe to inspect latest anti-aircraft guns of the Second Coast Artillery

guns of the Second Coast Artillery regiment. They returned to Washington by plane in the afternoon. In the party with General McNair were Colonel Edmund L. Gruber and Cap-tain Floyd L. Parks, of the General Staff Corps, and Lieut. Colonel Floyd E. Galloway, Commanding Officer of Belling Field, D.C. They arrived at the Langley Field airdrome at 6:20 p.m., the previous day, from Fort p.m., the previous day, from Fort Benning, Ga., where they inspected the Infantry School,

Fishing and boating in Back River, a tributary of the York, were suspended during the aerial demonstration, and patrol boats from Langley Field linger-ed on the edge of the river to escort river craft out of the danger zone. No mishaps were reported.

No misnaps were reported. The demonstration was the second one staged at Langley Field in the period of two weeks. On February 25th, rank-ing government and army officials made an overnight tour of both Langley Field and Fort Monroe. Included in this lat-ter party were members of the Senate and House of Representatives Commit-tees on Military Affairs and Appropriatees on Military Affairs and Appropriations.

"DUSTER" HITS RANDOLPH FIELD

Riding on the wings of a dry "Norther one of the worst dust storms of the year hit Randolph Field at 11:30 p.m.. March 11th, and soon had the visibility restricted to a mile or less. The dust was picked up by the strong wind in the dust bowl, which comprises the arid plains of Eastern Colorado and New Mexico, Western Kansas and the Texas Panhandle. It traveled as far south as the Gulf of Mexico and as far east as Northeastern Georgia. By ten o'clock the next morning, the worst of the dust has cleared away, leaving a liberal coating of silt over everything in its wake. Since only itinerant flying was scheduled on Sunday, the normal train-ing activities were not hampered.

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During February the Engineering De-partment of the San Antonio Air Depot, Duncan Field, Texas, overhauled 13 air-planes and 81 engines and repaired 32 planes and 2 engines.

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Dawn of Sunday, March 19th, broke through somber clouds over March Field, Southern California's week-day runwayin-the-Sun, to presage the arrival by noon of the largest crowd of national defense fans in the history of the field. The occasion was the annual meeting of the Los Angeles Chapter of the Army Ordnance Association, but the public was invited and showed more interest than ever had been demonstrated before.

ever had been demonstrated before. More than 35,000 people flocked through the military gates to witness an aerial demonstration and to inspect aircraft, ordnance and anti-aircraft equipment. The roadway along the line, and the whole parking area of the huge landing mat was filled with a milling, jostling but good-natured and orderly crowd that showed alert interest in the bristling military array of aircraft drawn up for inspection. State highway patrolmen declared that the traffic, which for seven hours clogged main highways with a solid line of cars stretching clear to Riverside ten miles away, was the heaviest Riverside County has ever seen.

Riverside County has ever seen. Greeting the Ordnance group, among whom were Earl B. Gilmore, President of the Los Angeles Chapter; Major General Ewing Booth, former Assistant Chief of Staff and now retired; and many other dignitaries, was Colonel Rush B. Lincoln, Commanding Officer of March Field. The Association, composed of Reserve officers and prominent businessmen of Southern California, met at 10:00 a.m., to conduct its annual affairs and discussions. Its coordinator was Major Thomas M. Jervey, March Field Ordnance Officer.

sions. Its coordinator was Major Thomas M. Jervey, March Field Ordnance Officer. At two o'clock, with the regimental band of the 63rd Coast Artillery playing, General Booth presented battle ribbons to Los Angeles' 363rd Infantry in an impressive ceremony.

At 2:30 o'clock, eighteen Northrop Attack planes of the 17th Attack Group, led by Major Lotha A. Smith, Air Corps, thundered down the field in a mock attack against anti-aircraft placements. Flying low over the level terrain, they loosed a water curtain to simulate a smoke screen, and drupped dummy parachute bombs. Shortly thereafter, a stubby P-36A, which took off on a routine carburetor check, thrilled the crowd with acrobatics, climaxing with a long slanting down the line at better than 400 miles per hour.

Among the airplanes on display were the B-15, brought from Langley Field by Lieut. Colonel Robert Olds and Majer Caleb V. Haynes; a B-17, also brought from Langley Field by Major/McReynolds and Major Crocker; two P-36A's, flown from Barksdale Field, La., by Captain Sanders and Lieut. Silen; a new Whitee Attack Bomber; the Douglas DC-5, latest tricycle-land-geared high-wing transport, and Douglas Bombers, Northrop Attacks and North American Basic Combat planes regularly stationed at March Field. Fortunately for the visitors, the B-15, the B-17 and the P-36A's had arrived two days before the Show on a routine cross-country fuel check.

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flight. The visitors wildly cheered the efficient aerial demonstration, and exhibit ed much interest in the anti-aircraft equipment displayed by batteries of the 63rd Coast Artillery. When darkness fell under a Btill

When darkness fell under a still cloudy sky, late stragglers were leaving behind a brilliant day's story of Southern Californians' Army Air, Corps mindedness.

MECHANICS BECOME ATTACHED TO AIRPLANES

Disconsolate over losing his faithful old airplane, the C-14 (494), Sergeant A.M. 1st Class, W.E. Morgan, its crew chief for the past two years, seems to by down and out since its departure, according to the News Letter Correspondent of the 47th School Squadron, Randolph Field, Texas. The Sergeant's only comment to the Correspondent was: "It makes no difference now."

The personnel on the hangar line of the 47th recently bade farewell; to this old faithful Transport plane. It had served its time and, due to age, it became the subject of a survey which was recently approved.

IMPROVEMENTS COME WITH MARCH OF TIME

The scribe of Headquarters and Headquarters Squadron, Randolph Field, Texas, states that that organization is undergoing quite a change these days in many different ways. First, the paint brush can be seen around any part of the barracks, and there is nothing that makes a neater appearance than a good coat of fresh paint. Another new improvement, he says, is the set of chimes that are being used in the mass hall adding that accounts

Another new improvement, he says, is the set of chimes that are being used in the mess hall, adding that a couple of the boys are practicing on them, and in a short time they will be able to play the Army chow call. It is a great deal different from the shrill and rancus chow bell that nearly deafens a man when he happens to walk by the K.P., who usually sees how loud he can pound on it.

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LARGEST COMBINED CLASSES IN HISTORY OF RANDOLPH FIELD.

With 360 Flying Cadets, student offi-cers, foreign officers, and foreign ca-dets in the new March primary class at Randolph Field, Texas, and 240 student plifts undergoing training on the Basic Stage, the Primary Flying School has the largest combined class in its history, a total of 600 student pilots actually be-ing on duty at the "West Point of the Air "

ing on duty at the "West Point of the A're" A year ago, when the March class re-ported, it was slightly larger than the present Primary Stage class, but at that time the class on the Basic Stage did not approach the present class in point of numbers. The present class on the Primary Stage

of numbers. The present class on the Primary Stage, which reported on March 1st and iterted actual flying training on March 18th, is composed of 8 officers from the Regular Army¹⁰2 Mexican Army officers, 1 Philip-pine Army officer, 3 Philippine Flying Cadets, 339 Flying Cadets of the U.S. Army, and 7 holdovers, a total of 360. The Basic Stage class is composed of 89 student officers, 3 National Guard 89 student officers, 3 National Guard officers, 128 Flying Cadets, and two officers, 128 Flying Cadets, and two officers from the Peruvian Air Corps who are taking a special short course and, finally, 18 Reserve officers who are pursuing the Refresher course - all for a total of 240 men in training. Lieuts, Ernesto Gomez Cornijo and Enrique Tepinoza, of the Peruvian Air Corps, reported at Randolph Field on February 27th for a special short course of instruction on the Basic Trainer type of instruction on the Basic Trainer type planes. Theter they will be transferred to Kelly Field for additional training on A-17 before returning to their home-airdione at Las Palmas, Peru. The two foreign officers have been in the United States for several months. They will foreign officers have been in the United States for several months. They will ferry an export version of either the BT-9 or the A-17 to their homeland upon completion of their training. Both of-ficers are graduates of the Peruvian Air Training Center, a counterpart of Randelph Field. During the first two weeks of the pre-sent Basic Class, which started its sec-ond four-months' period of instruction on February 25th, there were as many as 247 men undergoing training. This fig-ure includes seven Air Corps officers regularly assigned to Randolph Field,

regularly assigned to Randolph Field, who were undergoing the 30-hour course another Basic Stage Instructor's Course. AppPeximately 45 Primary Stage instrucdoring the interim between classes, in rerder that instructional methods on both stages would be better coordinated. ----000----

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AsoLieut Golonel Hugh J. Knerr; Air Corps, having been found by an Army re-tiring board incapacitated for active service, due to disability incident thereto, was retired on March 31, 1939. SPIRIT OF AMERICAN YOUTH IS STILL ALIVE

Not exactly typical of the many let-ters received each day by the Secre-tary's Office at the Primary Flying School, Randolph Field, which request information or application blanks for the Flying Cadet Battalion, the follow-ing letter is reproduced as a matter of general interest and as a graphic in general interest and as a graphic ilustration that the spirit of youth is very much alive:

> "---- SCHOOL, -----, STATE OF-----

> > Mar. 1, 1939.

Sir: Here is just the kind of a guy you need to pilet one of your super ships you claim to have. I go to this school, but I don't like it. I want to be a combat pilot and enter your school. don't need to tell you that I've got

don't need to tell yeu that live got the brains, because any bird that can stay in this place has to have brains. The air force needs plenty of new men at this time, so you had better give me a chance. I am 18 years old, am 6 feet and weigh 180 lbs. I can take care of myself okey. I like the set-up out there and will be waiting to hear from you. I take to the air like Grant took Richmond. from you. <u>I te</u> took Richmond.

Just address: John Doe 999 Blank Street Blank, Blank,

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P.S. Please reply soon because I hope to be able to get the H... out of here and live like a human."

"Honestly, this is an exact reproduc-tion, and is on file at Randolph Field," the News Letter Correspondent declares.

IMPROVEMENT OF GASOLINE SUPPLY SYSTEM AT RANDOLPH FIELD.

Additional funds in the amount of \$8,230.00 will be expended in the near future for improving the Aqua gasoline supply system of the Air Corps Primary Flying School, Randolph Field, connect-ing the lines from the gasoline supply tanks to the storm sewer lines and per-forming incidental work. This was an-nounced by Major F.D. Shawn, Q.M.C., Post Quartermaster.

The State W.P.A. will furnish \$5,210 of the sum needed for the work, while the additional \$2,920 will be furnished locally. When placed in operation, the project will provide employment for 52 men for approximately two months.

Lieut. Colonel Joseph T. McNarney, Air Corps, has been detailed as a member of the General Staff Corps and assigned to the War Department General Staff.

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LANGLEY FIELD PERSONNEL BID FAREWELL TO GENERAL ANDREWS.

Colonel Frank M. Andrews, Air Corps, who assumed command of the General Head-quarters Air Force when it was establish-ed four years ago and welded it into a potent implement of national defense, left Langley Field on March 10th for a brief leave of absence before assuming his new duties at Fort Sam Houston. his new duties at Fort Sam Houston, Texas

Officers and enlisted men of the Air Force were lined in military order at nine o'cleck that morning to salute him as he walked from his former quarters on Benedict Avenue to the main gate of the airdrome to drive with Mrs. Andrews to Key West, Fla.

Accompanying him in the brief ceremonies that morning were Brigadier General Arnold N. Krogstad, Commanding the 2nd Wing, GHQ Air Force; Colonel Lawrence S. Churchill, Air Base Executive Officer, and Lieut. William L. Curry, aide-de-camp to General Krogstad. Succeeding Colonel Andrews, who held the temporary rank of Major General dur-ing his tenure of office as Commanding General of the GHQ Air Force. is Major

General of the GHQ Air Force, is Major General Delos C. Emmons, who took over the command of the GHQ Air Force on Feb-ruary 28th for a period of four years.

Members of Headquarters and Headquar-ters Squadron of the GHQ Air Force, Langley Field, observed the fourth anni-versary of that organization at a ban-quet on the afternoon of March 4th in the organization dining room. Colonel Frank M. Andrews was the prin-

cipal speaker on this occasion. This organization was authorized by the War Department on March 1, 1935, and its initial strength included 22 Ser-geants, 7 Corporals, 18 Privates, 1st Class, and 18 Privates. The personnel now includes 118 enlisted men and 27 officers.

Captain Elwood R. Quesada was the Squadron's first commander. Major John E. Upston took over the command on June 6, 1935, and on August 1st of that year he was relieved by Major Eugene C. Eubank. The latter was succeeded by Major Clyde V. Finter, who had been sta-tioned at Maxwell Field, Ala., on August 20, 1937.

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Colonel Henry B. Clagett, Air Corps, Commanding Officer of Selfridge Field, Mich., recently completed an aerial round trip as pilot of the C-33 Transport plane carrying enlisted men to the Air Corps Technical School, Chanute Field, Ill. His itinerary was Langley Field, Va.; Mitchel Field, N.Y.; Selfridge Field, Mich., and Chanute Field. His passengers were stu-dents enrolling in the various courses given at the Air Corps Technical School.

SOLDIER'S MEDAL TO PRIVATE JORDAN

Private LeRoy C. Jordan, of the First School Squadron at Chanute Field, Rantoul, Ill., was the recipient on March 22nd at that station of the your of Soldier's Medal for an act of bravery in saving the life of an 8-year old of girl in the Illinois River, near the Chanute Field Rest Camp, Havana, Illige

on August 12, 1938. The decoration was presented by Major General Stanley H. Ford, Commanding the Sixth Corps Area. The First School Squadron, under the command of Capitain Ray H. Clark, Air Corps, stood at at tention while Private Jordan reactived his award. The congratulations of the

made an inspection of the postimeving particular attention to the flying. 2200 equipment and the new construction The Corps Area Commander appeared to be es-pecially well informed on both the construction and the airplanes allotted to this station.

General Ford concluded his stay with a brief call on Colonel Gerald ComBrant, Air Corps, Commandant of the Adr. Corps Technical School. ap "teephing <u>Lohnov (J</u>

PHOTOGRAPHING GAME FROM THE ALROST

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Airmen of the Colorado National Guard Air Corps, Captain Harrison W. Wellman, Jr., and 2nd Lieut. Edward C. Fackerell, at the request of the State of Colorado Game and Fish Department, flew a new 1 the 0-47A airplane, on March 2nd, over the mountainous regions of the State and took pictures of deer and elk feeding at various places.

Due to the deep snow lying in the mountains, the State has been feeding the game, and it was desired to secure a count of deer and elk. The photo-graphs secured were highly satisfactory for this purpose, and additional re-quests were received by the National Guard Squadron for a more complete Guard Squadron for a more complete survey of game feeding grounds throughout the State.

la tel PERUVIAN OFFICERS RECEIVE SPECIAL of sdr TRAINING AT KELLY FIELD. Roldstreed? Loidmonood? Pritiv vite S

Lieuts. Enrique Espinosa and Erhesto Gomez-Cornejo, of the Peruvian Army Air Corps, reported at the Advanced Flying School, Kelly Field, Texas, on March 18th, to pursue a special course of instruction, specializing in Attack Atlation. Mention of these two Persuvian Air Corps officers is made elsewhere in this issue of the News Letter. worthey are expected to remain at Kelly Fielden for a period of approximately sweet and weeks. -20-

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. WAR DEPARTMENT SPECIAL ORDERS Changes of Station Jerth Nos

To Bolling Field, D.C. : 2nd Lieut. Leroy A. Rainsy Stron Kelly Field, Texas

Te Fort Knox, Ky.: Colonel Byron Q. Jones, from duty as instructor at the Army War College, Washington, D.C., upon completion of present

School year. <u>To Kelly Field, Texas:</u> 1st Lieut. Thomas J. Gent_b Jr., from Hamilton Field, Calif.; 1st Lieut. William M. Garland, from Panama Canal Depertment (previous orders amended).

Templed from Langley Field, Va. <u>30 Inglewood, Calif.</u>: Major Charles E. Bran-shaw, from Escremento, Calif., Air Depot, for duty as Assistant Air Corps Representative,

Western Procurement District. <u>Ho Longley Field, Va.:</u> Captain Wantworth Goss, From March Field, Calif. <u>91 To Mamilton Field, Calif.</u> Lieut. Colonel William O. Butler, from foreign service. Previque orders in his case amended.

TpoMarwell Field, Ala.: Major Sam L. Ellis, from duty as instructor at Command and General Staff School, Fort Leavenworth, Kansas, to duty , man a member of the Air Corps Board.

Be March Field, Calif .: Ceptain Truman H. Landon, from Panema Canal Department.

To Randolph Field, Texas: 1st Lieuts. Edward W. Suarez, from The Hawailan Department, and Trenkdim J. Meyer, from Panema Canal Department. Previous orders amended.

To Mitchel Field, N.Y.: 1st Lieut. Dolph E. Muchleisen, from Hawaiian Department.

To Mashington, D.C., for duty in Office of the Chief of the Air Corps: Major Oliver S. Ferson, from Barksdale Field, La.; Major Edward E. Hildreth; from Maxwell Field, Ala.; Captain

Lyman P. Maitten, from Wright Field, Ohio. <u>To Mensue Canal Department: Lieut. Colonel</u> Francis M. Brady (General Staff) from duty with GHQ Air Force, Lengley Field, Va.

<u>La Wright Field, Ohio:</u> Major Franklin O. Cerrolk, from duty as Assistant Air Corps Pro-curement: Representative, Inglewood, Calif.

Txtended Active duty for Air Reserve Officers

2nd Lieut. Vandenburgh Endress, Fort Worth, Texas, to Brooks Field, Texas, to March 14,1942. 2nd Lieut. Jeff Coleman Mock, Vivian, La., to Barksdale Field, La., to March 29, 1942.

Transfers

1st Lieut. Maurice M. Simons, Air Corps, to the Coast Artillery, and from duty with the 97th Observation Squadron, Mitchel Field, N.Y., to duty with 51st Coast Artillery, Fort Monroe, Va. Stad Libert. Andrew O. Lerche, Corps of Engin-bers, Fort MoIntosh, Texas, transferred to Air Corps and assigned to duty at Randolph Field, LOTE: Promotions

To Bolonel (temporary): Lieut. Colonel Junius WC LJones; from March 1, 1939.

To Dieub. Colonel (temporary): Major Paul J. Mathie, Viron March 17, 1939. To Major (temporary): Captains Julian B.

Haddon, fixed March 15th, and Haynie McCormick, from Maren 17, 1939.

Colonel Walter R. Weaver has been transferred from Langley Field, Va., to Maxwell Field, Ala., and, effective on or about April 1,1939, designated as Commandant, the Air Corps Tactical School, vice Colonel Millard F. Harmon, who is designated as Assistant Commandant, the Air Corps Tactical School, vice Lieut. Colonel Donald Wilson, relieved.

Captain Donald W. Norwood relieved from assignment and duty at Denver, Colo.; and direct ed to proceed to his home to await retirement.

Lieut. Colonel Earl L. Naiden detailed as member of the General Staff Corps with troops and assigned to duty with the GHQ Air Force, Langley Field, Va-

Second Lieut. Will Wright McConnell, Air Reserve, Kenton, Ohio, assigned to extended active duty at Patterson Field, Fairfield, Ohio, to March 20, 1942. -----

AFMY AIRMEN MAKE TRIP TO SOUTHERN ISLANDS

The 28th Bombardment Squadron, stationed at Clark Field, P.I., completed the first south-ern island trip of the new year on February 10th. Seven B-10B's, Major Guy L. McNeil, Air Corps, Commanding, departed from Clark Field on February 8th for Jolo, Jolo, P.I., via Zamboanga, Zamboanga, P.I.

Zemboanga was the first overnight stop, go-ing to Jolo the second day and returning to Zamboanga for the second night's stop.

On the third day, the flight left for San Jose, Mindoro, via Iloilo and other points, but while flying in the vicinity of Panay, word was received that a typhoon was approaching over kindanao, whereupon the flight return ed to Clark Field without stopping at San Jose

Army pilots on this trip, in addition to Major McNeil, were Captains R.L. Schoenlein, W.A.R. Robertson, 1st Lieuts. Hunter Harris, Jr., L.R. Brownfield, D.N. Motherwell and W.M. Gross.

Several officers from other branches on the service were passengers on the trip, wiz: Brigadier General F.W. Honeycutt, Commanding General, Fort Stotsenburg, P.I.; Lieut. Cols. E.W. Taulbee, W.E. Buchly and J.T. Pierce, 26th Cavalry (P.S.); T.G.M. Oliphant, 24th Field Artillery (P.S.); Major P. LeToney, 31st Infantry, and 1st Lieut. C.V. George, Air Reserve, from PAA.

Enlisted men accompanying the flight as flight chief, crew chiefs and radio operators, were Tech. Sgt. M. Brucher, Staff Sgts. S. Daniels, M. Paschini, J. Stockwell, Sgt. A. Spade, Privates S.W. Stacy, C. Poly, W. Ott and D. Jenkins, while Pvt, 1st Cl. G.M.Tweedy, 2nd Obs. Squadron, Nichols Field, was the photographer on the flight.

The natives of Jolo, coming in from the hills, gave the flight quite a reception, as it was their first opportunity to see the B-10's, this being the first time the Squadron had landed there. The landing fields at Jolo V-9013, A.C.

and Zamboanga have been enlarged, and the B-10's have plenty of room for landing and taking off. Servicing facilities, for the benefit of all oldtimers that have blazed the trail before, are the same as usual - out of the good old 5-gallon cans. The <u>pesata</u> saves a lot of sore muscles and back aches, as 400 gallons per airplane is rather a nice workout.

AIRMAN FROM SOUTH AFRICA VISITS ARMY STATIONS

Captain G.A. King, of the South African Permanent Force, was a visitor at Kelly Field on March 7th and was shown the installations and various activities of the Air Corps Advanced Flying School by members of the faculty. He also witnessed student training in progress on that date.

Captain King is a member of the South African Instruction Corps, and his present status is that of Instructor in Signals at the South African Military College, Pretoria. He is spending three months in the United States after a 17-months' assignment at the British School of Signals. Prior to his visit at Kelly Field he made calls at Forts Monmouth, Benning, Sam Houston, Riley, Knox and Sill.

ACTIVITIES AT ADVANCED FLYING SCHOOL

A total of 40 students was assigned to the Bombardment Section of the Air Corps Advanced Flying School. These students, belonging to Class 39-B, started flying training on March 1st. Since that date six officers, taking the Refresher flying course, were added to the class.

Flying instructors present on March 1st were Major John V. Hart, Captains Delmar T. Spivey, Leroy Hudsen, 1st Lieuts. Roger J. Browne, Roy D. Butler, David N. Crickette, Norman L. Callish, Laurence B. Kelley, William L. Kennedy, Troup Miller, J.W. Campbell, E.J. Timberlake, 2nd Lieuts. N.K. Warner, Leroy A. Rainey and Flying Cadet J.E. Stiles.

Since March 1st, Lieuts. Rainey and Warner have been lost to the Section, the former being transferred to Bolling Field, D.C., while the latter was relieved from active duty to accept a position with the Eastern Air Lines. Captain Hudson was transferred to other duties at Kelly Field.

Twenty-four students of Class 39-B, including two efficers of the Regular Army, two officers of the Philippine Army and twenty Flying Cadets, reported to the Observation Section of the Air Corps Advanced Flying School on March 1st. Under the supervision of Captain R.E. Rendall, Chief of that Section, training is conducted in flying the Observation type airplanes on such missions as visual reconnaissance, aerial photography, instrument flying and navigation training.

Ground instruction in the use of photographic and radio equipment and artillery adjustment procedure have taken up the afternoon periods and filled up the evening periods with home work study.

It is anticipated that the present class will complete the course of training in three months' time instead of the usual four months heretofore allotted. Good weather and good luck have prevailed thus far, and it is believed no insurmountable difficulty will be experienced in completing the course in the time scheduled.

During the past year (February, 1938 to February, 1939) 162 regular students (student officers and Flying Cadets) have been trained by the Pursuit Section of the Air Corps Advanced Flying School. This is by far the largest number of students that have been trained by any one Section at this School. In addition, Reserve Officers undergoing a Refresher course have been graduated during each class. All students undergoing training received the major portion thereof in the P-12 type airplane, supplemented with some training in the Seversky BT-8 and instrument flying training in the BT-2B1 type airplane.

The flying instructor personnel of the Pursuit Section include Captain Burton M. Hovey, Jr., Chief of Section; 1st Lieuts. Dyke F. Meyer, Operations Officer; Melie J. Coutles, Commander of 1st Echelon; John H. Bundy, Commander of Second Echelon; Benjamin J. Webster, Daniel S. Campbell, Earl F. Signer, Fred N. Ward, William I. Ferneld, Wilbur W. Aring, 2nd Lieuts. William Eades, Roy W. Osborn, Robert F. Worden, Chester L. Sluder, James M. Jones and Joseph C. Mackey.

Second Lieut. William Irvin Fernald, Air Reserve, now on active duty at Kelly Field, was promoted to 1st Lieutenant, with rank from March 1, 1939.

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CONFUSION IN NAMES AT PRIMARY FLYING SCHOOL

The middle names of two Flying Cadets who enrolled in the March, 1939, Class at the Air Corps Primary Flying School, Randolph Field, Texas, became important to Army officials when it was discovered that both bore the name of John D. Wynne. Since both were listed as being Californians that did not help to dispel the confusion, because inquiry revealed that

John Douglas Wynne's home is in Los Angeles and John Davis Wynne came from El Centro. In order to simplify matters, the Los Angeles Wynne was designated as Wynne No. 1, because he was assigned to the first squad in the Cadet Battalion. The El Centro Wynne was dubbed Wynne No. 5, because he is a member of the fifth squad. John Douglas Wynne attended the Oregon State College and was a Private in the 4th Air Base Squadron at March Field, Calif., before he was appointed a Flying Cadet John Davis Wynne was appointed from civilian life. He attended the University of Arizona at Tucson.

.c First Lieut. Bierne Lay, Jr., Air Reserve, at his own request, was relieved from extended active duty at Langley Field. Bound for Holly wood, Calif., he is to devote his time to a motion picture depicting the life of an Army flyer. He wrote the book "I wanted Wings." -22-V-8013, A.C.

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SUED BY OFFICE OF CHIEF OF THE AIR CORPS_WAR DEPARTMENT. WASHINGTON, D.C.

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VOL. XXII	A I R	CORPS	NEWS	LETTER	NO. 8
Information Div					ns Building
Air Corps		Apri	11 15, 1939	Washin	gton, D.C.

The chief purpose of this publication is to distribute information on aeronautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation.

> THE EXPANSION OF THE ARMY AIR CORPS By Brigadier General Barton K. Yount, Air Corps, Assistant to the Chief of the Air Corps An address before the Philadelphia Chapter, Veterans of Foreign Wars, at Philadelphia, Pa., on Army Day, April 6, 1939.

Mr. Chairman, Members of the Philadelphia Chapter, Veterans of Foreign Wars, and your guests:

It is a great pleasure to be with you today and a great honor to address a patriotic organization such as yours on Army Day. After listening to the preamble of your Constitution and knowing of your splendid organization and your great interest in military affairs, it is unnecessary to review for you the record of the United States Army in the wars in which this country has participated. You know that splendid record as well as I do and you know that the United States has never been defeated.

I am sure that you are also familiar with the Army's accomplishments in helping to build up our great nation. It is enough to say that the United States Army has been a veritable "Vanguard of American Civilization" and that its influence in peaceful pursuits has matched its exploits in war.

Gentlemen, we are living in troubled times. Our press is filled with records of the pestilence of present wars and the threats of wars to come.

God grant that we may never again be called upon to defend our shores or the institutions which we have struggled to build and which we have fought to protect. But one thing is certain, and with this I know that you gentlemen will agree, we will fight, if necessary, to protect them.

And so today, instead of talking of our past, I am going to devote a few minutes to telling you something of our plans for the future and in particular as to how those plans apply to the expansion of our Air Corps. In January, the President of the United

In January, the President of the United States in a message to Congress said: "What needs to be emphasized is the great change which has come over conflicts between the nations since the world war and especially in the past five or six years."

Later he said:

"Military aviation is increasing today at an unprecedented and alarming rate. Increased range, increased speed, increased capacity of airplanes have changed our requirements for defensive aviation."

There is a new range and speed to offense. It has, therefore, become necessary to restudy the defense required to meet present possibilities of offense against us. What was adequate national defense 15 years ago, or even five years ago, is now insufficient. The proper strength for our defensive forces may be figured from several different points of view:

- lst The amount of national defense which can be provided without causing general objection to what must be paid in taxes.
- 2nd The maximum defensive strength which we may conceivably require, and
- quire, and 3rd - A necessary compromise between the two (considering the forces which may probably be brought against us) - the minimum necessary to safeguard the interests of the United States in this Hemisphere and to protect us from invasion.

The President's proposed aviation expansion program is this minimum. This program, when necessary appropriations are made, will provide an Army Air Corps of 6,000 planes.

Last July, Mr. J.M. Spaight, in his AIR POWER IN THE NEXT WAR, said: "History is full of wars that were never fought. Air power will probably add to their number. Is it not conceivable that we are on the threshold of an era in which wars will be won before they are fought?" Under such conditions the nation which is hopelessly outclassed in military strength has in the past and must in the future accept such terms as the nation with the overwhelming military

power is pleased to dictate. When its citizens are attacked by foreign nationals with the open acquiescence and even the encouragement of a stronger foreign government, the -1- V-8028, A.C. weak nation must meekly accept this condition and must, perhaps, be duly thankful that matters are not worse.

For forty years this nation has been a first-class power. We must now decide whether or not we will continue to be a first-class power - whether or not we will protect our citizens abroad from being abused - whether or not we shall be able to protect our flag from being insulted by some arrogant foreign power whether or not we shall be able to protect our country from foreign invasion whether or not we are willing to <u>fight</u>, if needs be, in defense of our own principles of democracy.

We believe that the President's Army Air Corps expansion program provides the minimum force which will give the necessary air protection to our nation and to our citizens at home and abroad.

In the ground arms the fire power of the defense has so outstripped the power of the offense, in recent years, that fronts may quickly become stabilized.

To the commander having the dominant air power, aviation provides a means of effective attack behind the hostile lines. No longer can the Maginot Line protect Paris; no longer can the English Channel protect London; no longer can munitions of war be safely and peacefully produced to supply armies locked in a struggle on a frontier 200 to 300 miles away.

Today, the bombardment of Continental United States is not a practical military operation. But, who can say what tomorrow will bring?

Last November, two planes flew nonstop from Egypt to Fort Darwin, in Australia - a distance of more than 7,100 miles. This is some 1,000 miles more than a round trip between the European coast and New York City and, according to the published figures, an equivalent in fuel of a 3,000-1b. bomb. In other words, on this flight it would have been physically possible for the planes to have taken off from Europe, flown to New York, dropped a 2,000-1b. bomb, and returned to Europe without landing.

Throughout the world today there are on the drawing boards numerous designs capable of flying over 9,000 miles nonstop, but so far as we know there is today no foreign Air Force able <u>effectively</u> to bomb any point in the United States from either Asia or Europe and return to its home. There is, however, no reason why potential enemies may not, at the present time, peacefully acquire and organize commercial air bases on Atlantic and Pacific islands, or even in continental North or South America.

There is no essential difference between a large well-equipped commercial air base and a military air base. From such commercial air bases in this Hemi. sphere mass attacks could readily be launched against vital elements of our military defenses even prior to as desc claration of war.

Such bases could be made ineffective only by the use by us of a powerful Air Force. Our aviation must remain strong, if for no other reason than that no foreign nation may be tempted to use commercial air bases from which to attack us.

We must have a strong and readily expansible aviation industry, capable not only of maintaining in peace the number of planes required for our Air Force, but capable of meeting the demands which will be made upon it in war.

We must remember, however, that a strong aeronautical industry and an adequate provision of airplanes do not, of themselves, insure an efficient Air Force.

The other elements of a properly balanced Air Force are trained aerial and ground crews to fly, service, and maintain the aircraft, and the necessary buildings and equipment to make possible the proper maintenance, repair, and supply functions.

and supply functions. (136) (136) Whatever its size, our Air Force must be balanced. Once the amount of funds which can be provided has been determined, the proper composition of its various elements can be determined of its various components shall be in proper proportion. It is impossible to improvise any one of these elements after war has been declared.

proportion. It is impossible to improvise any one of these elements after war has been declared. The Wars will be fought (certainly during the first few months) with the planes and trained personnel available in peace. In peace we must maintain each element of this balanced Air Force at the strength we will require during the first few months of war and not for just the opening date. To attain the minimum of trained pilots necessary under the President's program, before the end of 1940, will require that some 370 Flying Cadets begin training every six weeks between now and then. This is more than twice the number now being trained. The War Department plan allows nine months for the training of each class. The first three months the Primary Stage - will be given at selected private commercial flying schools. The second three months the Advanced Stage - will be given at Kelly Field, Texas.

The three months' instruction at the selected private commercial flying schools should not be confused with the flying instruction to be given by the Civil Aeronautics Authority in the College Flying Clubs.

The President recently made available \$100,000 to conduct an experiment in -2- V-8028, A.C. the training of pilots in the flying units which have been organized at thirteen colleges distributed throughout the United States. If the experiment proves excessful, he hopes to be able to provide a fund of around \$7,000,000 a year to give training to as many as 20,000 college students annually. These students will have no connection with Army Flying Cadet training. However, such of them as prove particularly apt will constitute a valuable reservoir from which to select cadets for Army Flying Cadet training.

Heretofore, of those who passed the rigid physical examination, some 60% or less have shown the natural aptitude for flying necessary for our military pilots. By selecting those of proven aptitude, it is hoped that we can graduate a much larger percentage of those entering our flying schools.

Under the present plan for Air Corps training, the Advanced Flying School at Kelly Field will be expanded to accommodate the additional students necessary. Randolph Field, the present Primary School, which now includes both Primary and Basic Stages, will give Basic training only.

ing only. The new feature of this plan, which has not been tried out up to the present time, is the method of giving instruction in the Primary Stage. For this type of instruction, it is planned, as previously stated, to use selected commercial flying schools owned and operated by private individuals. After numerous conferences with

their present operators, a sound plan has been agreed upon by the War Depart-ment. Under this plan the Air Corps will purchase at a reasonable price flying instruction from those schools which meet the government standard. To insure uniformity of product and to acquaint the instructors at all of these schools with the Army standard, all of the civilian instructors will attend a course for Flying Instructors at Randolph Field. The government will also maintain at each school one or more Regular Air Corps officers to check each student from time to time. They will function just as inspectors at manufacturing plants, who inspedt the manufacturer's product to see that it meets Army standards. ... In fact, the same sort of inspection has been going on for years at the Army Flying Schools, where each student must pass a check-pilot at every stage of his instruction. The only essential difference is that the flying instruction under this plan will be given by a civilian at a civilian school instead of an Air Corps officer at an Air Corps School.

Not only the flight crews, but also on the ground, trained men are a necessity. The Army Air Corps must have skilled crew chiefs and crew men, radio opera-

tors, radie repair men, electricians, photographers, stock keepers and clerks. The aircraft industry also needs simi-

In aircraft industry also needs similar expert mechanics, draftsmen, electricians, etc. Outstanding individuals in these various categories rise to executive positions and form the backbone of the industry.

We must train our high school graduates to fill vacancies in the Army Air Corps and in the American aircraft industry if we are to secure the full effect from our increased numbers of aircraft. To complete the President's program, the Air Corps will require slightly more than 25,000 men such as these, in addition to those we now have.

At Chanute Field, Rantoul, Ill., and at Lowry Field, Denver, Colo., the Air Corps maintains schools for training mechanics. At present some 900 to 1000 men are enrolled in these two schools. The enrollment will soon be greatly increased. It will be impracticable, however, for these two schools to meet our training needs. Some additional facilities must be provided. During the World War we found it ne-

During the World War we found it necessary to organize a mechanic's school and some 5,000 to 6,000 men were graduated from it. At present there are very probably as many students in training at private and public mechanic's schools of various kinds throughout the country. The necessity for the utilization in war of every existing facility applies equally well to such schools. We believe the easiest and most efficient way to solve our present problem is to use these schools in somewhat the same manner as is planned for the pilot schools. The graduates of these civilian mechanics' schools are filling positions, not only in aviation but in many other branches of industry. These schools, under their present management, with an increase of instructors, principally in the lower grades, could be enlarged to train several times their present enrollment, and the Army plans to use them at least to a limited extent. I have talked at some length on the President's Air Corps expansion pro-

I have talked at some length on the President's Air Corps expansion program. Although the Congress has passed the authorization bill for 6,000 planes and the President has signed it, the appropriation bill must still be passed and we are certain that it will be. TO SUMMARIZE:

Here briefly are some of the important things the President's air program will do for the country:

a. It will give us an efficient Air Force, in the shortest possible time, of the size required for national defense. It is not an offensive force built to carry war to foreign shores. Far from it. It will provide an air defense for the continental United States and its V-8028, A.C. possessions - that and that only. It will not then be as large as some of the others in the world, but it will serve notice to all international trespassers not to encroach upon our continental shores except at their own risk.

b. It will raise the aircraft industry to a proper level. The aeronautical industry in this country is at present wholly inadequate to supply our needs for military aircraft in a major emergency - the facilities are available but they are not being utilized. This program will inaugurate military airplane building in many aviation factories, which have had no experience in building military aircraft. It will train a large additional group of engineers and skilled workmen, supervisors and foremen in military aircraft manufacture.

c. It requires the training of a large number of additional military pilots. By providing a certain amount of training in civilian flying schools we will train these schools in the type of work they would have to do immediately in the case of a major war. It is wise indeed to give them this experience now. It permits us to perfect, in peacetime, a system which we know we shall have to use in time of war.

TRAINING PERIOD COMPLETED IN CANAL ZONE

The annual training period for troops in the Panama Canal Zone came to a close on March 28th with a final critique, held in the Fort Clayton theater, on the maneuvers which had been conducted during the past three weeks.

During the maneuver period, all available forces in the Panama Canal Department had been offering a concentrated resistance to a simulated Black Army of invaders, bent upon the destruction of the Canal, and who attacked from land, sea and air. During most of the exercise, the 6th Bombardment Group from France Field, and the 74th Attack Squadron represented the carrier-base air force of the invaders, carrying out bombing and chemical attacks upon Canal installations and upon ground forces.

The 24th and 29th Pursuit Squadrons were assigned defensive missions with the Blue forces, aided by reconnaissance missions by the 44th and 7th Reconnaissance Squadrons.

MITCHEL FIELD ACTIVITIES

A 13-ship formation of the 9th Bombardment Group, under the command of Captain F.R. Upthegrove, Air Corps, took off frem Mitchel Field, New York, on April 12th, for Fort Benning, Ga., for the purpose of staging a bombing demonstration at the Infantry School at Fort

We believe that the President's new air program is an essential step in air preparedness for this country. We believe that the Congress of the United States expressed the will of our people when it voted recently by an overwhelming majority to authorize that program.

ing majority to authorize that program. This new program will be carried out to the last detail and on time, We are ready to start - our plans are perfected, our machinery is ciled - but it remains for Congress to throw the switch by making the appropriations available and Congress will carry out its part. Let us not make the mistake of begin-

Let us not make the mistake of beginning too late. We must bear in mind that much time is required to build up an Air Force. It cannot be done overnight - 18 months are required to reach quantity production in planes - two years are required to train personnel to make them competent to handle our complicated aircraft of today. Delay in beginning will make for undue haste in trying to catch up and frenzied

haste makes for waste and extravagance. I urge then that we remember this: A strong Air Force may go a long way toward keeping America out of war, also a strong Air Force may be absolutely vital in keeping war out of America.

Benning, Ga. The demonstration took place on April 13th, and the flight returned to Mitchel Field the following day.

Six B-18A airplanes from the 18th Reconnaissance Squadron took off from Mitchel Field, under the command of Captain Emmet O'Donnell, Air Corps, for a flight to Ford Airport, Detroit, Mich. Upon arriving at that airport, luncheon was served for the crews, following which the Air Corps personnel were conducted upon a very interesting tour through the Ford Plant at Dearborn. The flight then proceeded to Selfridge Field, Mt. Clemens, Mich., for servicing, and then followed a night flight back home. All members of the flight expressed their sincare appreciation for the cordial hospitality accorded them while visiting the Ford Airport and Ford Plant.

Mitchel Field was called upon to fly the C-33 airplane to Ithaca, New York, on an errand of mercy, i.e., to transport Staff Sergeant John Graham, IEML (ROTC), Cornell University, to the Walter Reed Hospital, Washington, D.C. Major H.B. Chandler, Air Corps, pilot ed the C-33, and Captain L.H. Lawson, Air Corps, was the co-pilot. Lieut. Colenel R.K. Simpson, Medical Corps, and two enlisted medical attendants accompanied the flight.

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^{1 1} RETIREMENT OF TECH. SERGEANT CAMINSKE

Technical Sergeant Joseph Caminske of

Technical Sergeant Joseph Caminske of the 19th Pursuit Squadron at Wheeler Field, T.H., was retired from the U.S. Army on March 1, 1939. The veteran Air Corps technician wound up 30 years of service with the colors. He first enlisted in the Army in 1908 with the 137th Company, Coast Artillery Corps, and he served with this branch of the Army until 1914. From then on until 1929, when he was transferred to the Air 1929, when he was transferred to the Air Corps, Sergeant Caminske served with the Quartermaster Corps. He was a member of the 61st Service Squadron until 1935, and since then until his retirement he has been in Hawaii with the 19th Pursuit Emairon of the 18th Pursuit Group at Wheeler Field.

The service wishes Sergeant Caminske a long life in his well earned retirement.

. mogwi Colonel Henry W. Harms, Air Corps, has been relieved from duty in the Office of the Chief of the Air Corps, Washing-ton, D.C., and assigned to the Headquar-ters, 9th Corps Area, Presidio of San Francisco, Calif. -5-

RANDOLPH FIELD METEOROLOGICAL OFFICE MAKES ANNOUNCEMENT.

The Bolar front or separation line of Polar Continental air from Canada and the Arctic Region and the Maritime Air over the Pacific Ocean, Gulf of Mexico, and South Atlantic Ocean, is slowly mov-ing northward. The wave developments along this front, known as a family of cyclones, are less intense because the marked contrast between the two differ-

ent types of air is decreasing. The earth moving on its orbit around the sun is at its greatest distance from the sun during the spring and sum-mer months; however, the directness of the sun's rays, inclination of the earth's axis, and the variation in the absorptive properties of the air are slowly bringing about warming conditions in the northern latitudes. Since the Polar front is displaced to the north and the dynamic and convective compon-ents of these wave formations causes an east to northeastward movement, we find most of the United States, and Texas in particular, covered with a contin-ental inflow of warm, moist air, accompanied by an increase in temperature to maximums which should be reached during the months of July and August.

For those not completely familiar with meteorological terminology, a lay-man's translation of the above article has been prepared by the Randolph Field News Letter Correspondence. This translation is as follows: Spring is just around the corner and summer is not far behind."

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RADIO BROADCAST OF MOCK COMBAT

Hundreds of residents in the neighbor-hood of Langley Field, Va., seated by their radios on Sunday afternoon, April 2nd, listened to the thrilling details of a simulated attack by enemy planes and their successful repulse by giant "Flying Fortresses" and Pursuit planes from that field.

The demonstration of the nation's ef-ficiency on Land and in the air was preliminary to the observance of Army Day on Thursday, April 6th.

The running comments on the demonstration were made by Brigadier General Frederic H. Smith, of Fort Monroe, Va., Commander of the 3rd Coast Artillery District, and Major General Delos C. Emmons, who recently assumed command of the General Headquarters Air Force at Langley Field. Nicrophones distributed at various points at Fort Monroe record-ed the commands of the officers, the sound of whirling planes the barking sound of whirling planes, the barking of machine guns and the reports of at-tacking officers that the invasion had (Continued on Page 6).

SAN ANTONIO AIR DEPOT EXPANDS

Having reference to the Air Corps Expansion Bill (approved by the President on April 3, 1939), the News Letter Correspondent of the San Antonio Air Depot, Duncan Field, Texas, declares, in effect, that so far as the personnel of the Supply Department of the Depot are concerned, this expansion program appears to have been in effect as far back as six months age, so considerable has been the increase in activities thereat during that period of time.

The consolidation with the Lighterthan-Air Depot of Scott Field was completed during the six months past, all supplies and equipment having been transferred to San Antonio. While the establishment of the Engineering Branch of the Lighter-than-Air activity at Brooks Field has been indefinitely postponed, the Depot will carry on with the supply of Lighter-than-Air materials to stations all over the United States.

There is considerable activity in the warehousing department, brought about by the necessity for constructing new warehouses for the 03 classifications and a new rubber storage room. In the meantime, it has been necessary to employ a number of additional temporary laborers for the numerous rewarehousing projects under way that were made necessary by the influx of new and additional supplies. Numerous stocks must be relocated and rearranged in order to utilize to the maximum all available storage space.

The annual audit of the property account is now in progress. It is anticipated that five or six months will be required to complete this audit.

The shipping department was reorganized in preparation for the additional packing and shipping activity. During the six months period ending January 31, 1939, the total inbound and outbound rail freight bracked 3,065 tons. The total inbound and outbound air freight hauled during the six months was 877,520 pounds, compared with 713,798 pounds during the entire fiscal year 1937 and 1,422,677 pounds during the entire fiscal year 1938. The total inbound and outbound tonnage for the six months was 9,736,982 pounds (not including movement of supplies within the Depot to the Engineering Department).

ing Department). The number of airplanes in the San Antonic control area has increased approximately one hundred percent since 1936. Several new types of airplanes and engines have been acquired, making it necessary to stock many new replacement items for this equipment.

Another significant index to the increased activities at the San Antonio Air Depot during the present fiscal year is shown in the increase in the number of property vouchers issued. Approximately sixty thousand vouchers had been issued up to March 1st during the fiscal year 1938. Seventy-two thousand vouchers have been issued up to the same date this year, an increase of twelve thousand vouchers for the first eight months of the fiscal year.

of the fiscal year. Some fifty-five thousand items were carried in stock at the beginning of the fiscal year 1938. A conservative estimate at the present time would place the number of items in stock at sixty-five thousand, an increase of some ten thousand items during the past year.

A work order section was added to the Supply Department a few months ago to coordinate and expedite this important function of supply with the Engineering Department. This section is a feature that has been needed for some time, due to the great number of work orders issued daily, and is proving of benefit in many ways to the Supply function of the Depot. Since this section has been inaugurated, work orders are issued promptly, filed properly and accurate credits posted to the work orders upon completion by the Engineering Department. Material needed for work orders are traced promptly and a close liaison is maintained with the Engineering Department to insure prompt completion of material needed for issue to the various stations in this area for stock.

In conclusion, the News Letter Correspondent states that the Expansion finds the Depot Supply Department of the San Antonio Depot well ahead of schedule and ready to absorb the additional duties that will devolve upon it by reason of this expansion.

> Radio Broadcast of Mock Combat (Continued from Page 5)

been repulsed.

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In a simulated aerial battle somewhere out in Chesapeake Bay, the "enemy" was driven off with the loss of numerous... bombers, and an attack by another squadron was frustrated by the machine gun and anti-aircraft weapons of Bat+ teries C and D of the 2nd Coast Arithlery, stationed at Wilson Park; Many people witnessed a part of the demonstration from the Chamberlin Hotel and other vantage points in the vicinity.

With the arrival of Spring, the building program at Scott Field, Belleville, Ill., shows evidence of rapid growth; Quarters are beginning to grow out of the holes that have been planted with basements all winter. The upward surge is due to the fact that the weather has been above freezing for a change, and work on concrete pouring and brick laying has not been interrupted, and the ---o00----

of versioners of ane date wolye theres a ht contes RANDOLPH FLYING CADET "BIBLE" COMPILED By the News Letter Correspondent

The first effort to bind between the covers of one small pamphlet all the information, history, advice and other pertinent data a newly reporting flying Cadet should have at his fingertips, oulminated successfully.

deliver and the late and the stringer days, deliver and the successfully. As each of the 342 Flying Cadets of the March 1st Class reported to Captain James S. Stowell, Commandant of Cadets at Randolph Field, they were handed a 24-page mimeographed pamphlet, edited by the cadets themselves under the supervision of an officer assigned to the Cadet Detachment.

Limithe first section of the booklet there is given a short history of Randolph Field, dating back to 1927, when the United States Congress first discuised the appropriation of funds for the construction of facilities for "a new air field in the vicinity of San Antonio." The remainder of this section decise with the problems incident to ebstaining the necessary land and the drillding of water wells, and a financial resume is given of the total cost of construction.

In the second portion of the newly compiled pamphlet a resume is given of Flying Cadet social and extra-curricular activities. Various formal dances and their significance is discussed. Considerable space is devoted to the traditional Q.I. Church, the show produced for each class by the lower classmen. Lamponing of the upper classmen and burlesques of various scenes and activities of the Field usually make up the major portion of the thrice annual G.I. Church.

"....it is no disgrace to be 'washed out' at Randolph," the outgoing Cadet First Captain declares in his section, headed "Advice from 1st Captain." "It (weahing out) does not mean that you are not a fiyer; it simply means that you do not quite approach the high standards set for pilots who will shortly be intrusted with airplanes which cost as mich as a half million dollars apiece. Do not let the fear of 'washing out' be a 'hogey' to you - rather let it be the spurchat encourages you on to greater efforts toward achieving your goal," the lst Captain advised.

Ist Captain advised. "Inasmuch as Flying Cadets are potential officers, the Honor System is used. The Header Committee is comprised of a group of carefully chosen Flying Cadets r who handle all cases involving breaches a of thenory. The system has been tried and t it works," the advice concluded. Comprises the third section of the Cadet h "Bibles" In it are discussed behavior of the lower class at all times, the spirit that should be prevalent at all times, and the conduct of Flying Cadets

while on leave or on a visit to San Antenio.

The Honor System, as used at the Flying Cadet Detachment, comprises what is perhaps the most important section of the "Bible." Carefully worded so as to explain in great detail what a breach of honor consists of, this section discusses numerous concrete examples and the ruling on them.

Then comes an informal discussion of the flying training, and advice for the men who are just starting their primary training. "Be a 'Gloomy Gus' rather than an 'H.P."" (Hot Pilot) is the gist of the advice given in this department. The final two pages of the "Bible" are devoted to a compendium of Cadet Terminelogy and Slang, practically all phrases being completely unfathomable to anyone but a Flying Cadet. Plans are now going forward to publish for distribution to classes to

Plans are now going forward to publish for distribution to classes to fellow an enlarged edition of the Cadet "Bible," possibly bound and printed rather than mimeographed.

All States, except Delaware, were represented by the present Flying Cadet class which entered Randolph Field in March. Two of the three foreign possessions are represented, with two cadets from the Philippines and one from Hawaii. Other States represented and the number of cadets from each are as follows:

Illinois, 31; Texas, 29; California, 24; Oklahoma, 18; Massachusetts, 15; North Carolina, New York, Pennsylvania and Wisconsin, 14 each; Georgia, Florida, Michigan, Nebraska, and New Jersey, 9 each; Tennessee and Minnesota, 8 each; Alabama, Arizona and Indiana, 7 each; South Carolina and South Dakota, 6 each; Arkansas, Kansas, Iowa and Virginia, 5 each; Kentucky, Oregon, Colorado and Utah, 4 each; Connecticut, Mississippi, Missouri and Maryland, Nerth Dakota, Ohio, 3 each; Louisiana, Maine, Washington and Rhode Island, 2 each; Idago, New Hampshire, Montana, District of Columbia, Vermont and Wyoming, 1 each.

Under Special Orders of the War Department, recently issued, two field officers of the Army Air Corps were orrelieved from their present assignments and duties and ordered to proceed to their homes to await retirement. These two officers are Colonels John H. Howard and John H. Pirie, the former having been on duty as Air Officer of the 7th Corps Area, Omaha, Nebraska, and the latter serving as Commanding Officer of Maxwell Field, Ala.

SIXTH FURSUIT CELEBRATES 22ND BIRTHDAY

The 6th Pursuit Squadron, stationed at Wheeler Field, T.H., celebrated the twenty-second anniversary of its organization with a picnic at Kawailoa Military Reservation on the north shore of the Island of Oahu. The Squadron was originally organized as the Sixth Aero Squadron, Aviation Section, Signal Corps, on March 13, 1917.

Food and refreshments were served from 9:00 a.m. to 5:00 p.m., fried chicken being the main dish. The schedule for the day included baseball games, colleyball and horseshoe pitching. Captain Robert W. Douglass, Jr., Squadron Commander, gave a brief history of the Swadren, and presented leis and

Captain Robert W. Douglass, Jr., Squadron Commander, gave a brief history of the Squadren, and presented leis and alohas to "shert-timers" who, two days later, on March 13th, left for the mainland on the U.S. Army Transport REPUBLIC. A letter of congratulations from the Commanding Officer of the 19th Infantry was also read.

Manaling Officer of the 15th Intentity was also read. A letter, giving an account of the early histery and service of the Squadron in Hawaii, was received from Colonel John F. Curry, Air Corps (new Commanding Officer of Hamilton Field, Calif.), the first Squadron Commander of the 6th Squadron. It arrived too late, however, to be read at the Organization Day picnic.

The Honolulu ADVERTISER honored the Squadren by printing a history of the organization with a group of pictures in its magazine section on March 12, 1939.

NEW COMMISSIONED PERSONNEL FOR SELFRIDGE

The 27th Pursuit Squadron, 1st Pursuit Group, Selfridge Field, Mich., recently added eleven newly commissioned Reserve officers to its roster, namely, 2nd Lieuts. Joseph C. Smith, Lewis M. Sanders, Harry A. Jenkins, John L. Brownewell, Frederick C. Grambo, James A. Barnett, Archibald W. Moore, Paul L. G. Moore, Heman W. Randall, Jr., Eugene L. Strickland and Charles N. Fendrich. The training of the new men has been progressing quite smoothly, with but one mishap in the way of a forced landing by 2nd Lieut. Paul L.G. Moore. The circumstances were extremely fortunate, as the landing occurred over the Packard Proving Ground, the center of which is an emergency field itself.

The 94th Pursuit Squadron extends its welcome to the newest members of the organization, 2nd Lieuts. Eugene L. Clark, Robert L. Baseler, Woodrow B. Wilmot, Newton R. Dick, Robert D. Van Auken, Thomas B. Summers, William H. Swanson, Edgar A. Romberg, Robert R. Rowland, John J. Van der Zee and Harold J. Whiteman, Air Reserve. It is with regret that the 27th bids farewell to 2nd Lieuts, John R. Ulricson, Air Corps; Charles E. Trostel and Andrew D. Moore, Air Reserve, transferred to the 17th Pursuit Squadron and Headquarters and Headquarters Squadron. May their new homes be pleasant.

SAN ANTONIO AIR DEPOT PLAYS HOST TO FERRYING PERSONNEL FROM PANAMA ing end

The San Antonio Air Depot, Duncan Field, Texas, greatly enjoyed being host to the recent Panama Flight, composed of some 24 officers and 17 enlisted men, with Captain H.H. Couch in command of the flight and Captain T.H. Baxter as flight leader, who arrived on March 26th, ferrying ten Bombing planes from Panama to the Depot for reasignment to various other stations. Musiflight departed on March 30th, farrying back to Panema ten Bombardment planes, recently overhauled by the Depot. The flight was accompanied by an OA48

General officers of the Air Corps, who were recent visitors at the San Antonio Air Depot, included Brigadier General Frederick L. Martin, Third Wing Commander, Barksdale Field, La., on March 20-21, during the course of a cross-country flight to this vicinity, and Brigadier General George H. Brett, Chief of the Materiel Division, Air Corps, on April 3rd. This was General Brett's first visit to the Depot since his recent appointment to his present position. He was accompanied by Major T.H. Chapman, of the Materiel Division. They left on April 4th en route for a visit to the Sacramento Air Depot.

RANDOLPH FIELD CADET DIES IN CRASH

Flying Cadet Warren L. Ward, 27, of Auburn, Nebraska, was instantly killed shortly before noon on April 5th when his Basic Trainer, a BT-9, crashed from a low altitude just a half mile short of Krueger Field. Witnesses declare that Cadet Ward, who was practicing solo landings at the auxiliary sirdrome was in a gliding turn into the field when the plane whipped into a spin from 500 feet.

Entering Randolph Field in the October, 1938, Class, Cadet Ward successfully completed the Primary Stage and started his Basic training on February 25th. He had more than 35 hours' flying time in the BT-9 type plane at the time of the accident.

Funeral services were held in the Randolph Field Chapel on April 5th. Flying Cadet Robert D. Postlewaite accompanied the remains of the deceased Flying Cadet to Auburn, Nebraska, Ses official escort.

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"Appen House" for Army Day, April 6th, was held at Chanute Field, Rantoul, 111. and it proved to be the most successful celebration of this event in the history of that field.

The preparations for this event and the publicity incident thereto were ef-fectively handled, and this, coupled with favorable weather, resulted in an outpouring of more than 65,000 visitors. The local and Chicago newspapers feat-ured the "Open House" idea, published numerous photographs of the field activities and cooperated generally in pre-"senting the Chanute Field invitation to

the citizens of Illinois. - Redio Station WDWS, of Champaign, Ill., donated thirty minutes of radio time diving the evening of April 5th, and the field supplied the entertainment. The Manuter Field Wing Chorus, an organization of thirty male voices, under the direction of Chaplain Wallace I. Wolver-ton, assisted by 2nd Lieut. Paul H. Dane, Aire Corps, appeared in a program of five numbers. Major Harry A. Johnson, Air Corps: read an especially prepared invi-tation to the public. The program was well conducted and, no doubt, contributed materially to the success of Army Devi

The features of "Open_House" included tours of the Air Corps Technical School Mbile classes were in attendance, speci-al displays of student work and airplane displays. Outbound traffic was routed through the new construction area and afforded all visitors an insight as to Attorned Bil visitors an insight as to future conditions at the field. Major Winfield S. Hamlin, Air Corps, was the officer in charge of parking and traffic. The success of the program was grati-fying to the personnel of Chanute Field, and they feel that their efforts have, in a was was accessed to inform the

in a measure, served to inform the citizens of the community of the peace-time activities of an Army Air Corps station and the Air Corps Technical Sobool. 1

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. QUARTERMASTER GENERAL VISITS CHANUTE

Unannounced, Major General Harry Gibbins, Quartermaster General of the Army, paid a brief visit to Chanute Field on April 6th. General Gibbins ar-rived in Champaign, Ill., during the evening of the preceding day and was the Overnight guest of Colonel Gerald C Overnight guest of Colonel Gerald C. Brant, Air Corps, Commandant of the Air Corps Technical School.

General Gibbins visited Chanute Field

on Army Day, and numerous visitors were present when the customary salute to a Seneral officer was fired. The Quartermaster General met with Captain Benjamin F. Vandervoort, Quarter-master Corps, Constructing Quartermaster, and inspected the new construction. He

expressed his pleasure at the progress of building and stated that he would shortly depart for Scott Field for a similar inspection.

WHERE IS SELFRIDGE FIELD?

It is said that visitors see and know more about a locality than the inhabit-ants who have lived there for years. "This would appear very true," declares the Selfridge Field Correspondent, "for sometime back two officers walked down Woodward Avenue (in Detroit) with the express purpose of determining just what percentage of strangers they ac-costed could tell them where Selfridge Field was. From Grand Circus to the Field was. From Grand Circus to the City Hall, twenty individuals who appeared to be representative citizens were asked the question 'Where is Selfridge Field?' Of the twenty, three had a very definite and accurate idea of its location; five had a very general idea; four had a vague idea and eight did not have the remotest idea where it was located, although some of them knew it was some place in Michigan. "Here at the very door of Detroit,

adjacent to the city of Mt. Clemens, is located Selfridge Field, the home of the renowned First Pursuit Group. This unit's war record is outstanding and comparable to none. It has to its credit more enemy planes than the combined U.S. Air Units which fought in France. It names amongst its former members the most famous 'Aces' of the American forces, including Eddie Rickenbacker, America's Ace of Aces, who commanded one of its squadrons, the 94th Pursuit Squadron. Incidentally, that Squadron is appropriately commanded at present by Meior Warold W. George Air Corns is appropriately commanded at present by Major Harold H. George, Air Corps, himself a famous 'Ace' during the World War. Yes, the First Pursuit Group is, indeed, steeped in glorious traditions. "Every working day of the year, single airplanes and large formations can be seen practicing their maneuvers over Selfridge Field and adjacent territory.

The drone of the powerful motors of the latest high speed Pursuit planes, the 'fighters' of the skies, is commonplace to the people of Mt. Clemens. But few realize that each maneuver is a defin-ite item in the training of these guardians of our air - that each flight has a purpose in the scheme of national defense.

It is evident that a great portion of the populace in the vicinity of Detroit are unaware that they have a sky pro-tector of such magnitude and efficiency within their borders. Selfridge Field is not a restricted area, and the pub-lic is privileged to visit it at any time during daylight hours, to inspect the equipment and to witness the opera-In fact, it should be the duty tion. (Continued on Page 10).

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TRANSIENT AIRCRAFT AT LANGLEY FIELD By Norman E. Noll

In checking the records of the emer-gency crew at Langley Field, Va., it was learned that members of this organiza-tion during the Fiscal Year 1938 proved themselves an important factor to the local division of the Army Air Corps, for they participated in the required est

local division of the Army Air Corps, for they participated in the required ser-vice, inspection and maintenance labor of approximately 3,600 military and civ-ilian aircraft coming from localities all over the United States. Second Lieut. Richard Kight, Officer in Charge of the Traffic Section and the emergency crew, announced that of the above number of military and civilian aircraft which were serviced, approxi-mately 1700 ware stored overnight in lomately 1700 were stored overnight in local hangars.

The emergency crew, now consisting of three noncommissioned officers and eight privates, who hold various classifica-tions of Air Mechanics ratings, was formed some 14 years ago, and occupied the old Operations Building of the 59th Service Squadron, which was commanded at that time by Major William Hayward, who recently retired from the service. The outfit was maintained with the Service Squadron for a period of almost ten years before joining with Base Headquar-ters and 1st Air Base Squadron in March, 1935, when the General Headquarters Air Force was created. Naturally, like the servicing of a family automobile at a nearby garage, someone must do the cleaning, servicing, lubricating and adjusting labor on all

lubricating and adjusting labor on all visiting aircraft, and so upon the shoulders of the members of the emergency crew were placed the important respon-sibilities of keeping the planes in safe mechanical operation, inspecting the radio and auxiliary equipment and deter-mining whether or not transient aircraft were in safe condition for the continuance of a further scheduled navigation training flight.

Included among the leading civilian aircraft handled by the emergency crew are those flown by inspectors of the Civil Aeronautics Authority, who arrive from Washington once each month for the purpose of inspecting commercial air-craft in this locality.

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Where is Selfridge Field (From Page 9)

of each American citizen to obtain all the information possible of the present active units of national defense within his locality. For this reason, there are no restrictions placed on visits of the public.

"To obtain the most knowledge a visit during the mornings of week days affords the maximum opportunity to view all activities."

GRADUATION OF FLIGHT SURCEONS

The following-named Medical Officers. The following-named Medical Officers, who have been pursuing the four months basic course of instruction at the col School of Aviation Medicine, Randolph Field, Texas, graduated as Flight Sur-geons on March 31, 1939, and were ap-signed to duty at the station appearing after each name:

Captain John D. Morley, France? Field, ves en ou Panama Canal Zone;

Panama Canal Zone; Captain Clarence A. Tinsman, Selfridge Field, Mt. Clemens, Mich. Selfridge Ist Lieut. Levi M. Browning, March Field, Riverside, Calif. Stall Stall Captains Raymond W. Kerwin, Medical Corps Reserve, Chicago, Ill., and Aaron H. Horland, National Guard of New Selfrid Largev Newark N.J. joined the Selfrid H. Horland, National Guard of New Just Jersey, Newark, N.J., joined the class on February 15, 1939, for the statut weeks' practical course. Both offi-cers, having already completed the ext tension course prior to coming to the School, graduated with the resident class as Flight Surgeons. Colonel A.W. Robins, Commanding Offi-cer of the Air Corps Training Center delivered a very interesting and in

delivered a very interesting and in it spiring address to the class, following which he presented diplomas to deth of the students and added his personal and congratulations and words of good and the students and added his personal and

cheer. The introductory remarks were made by Lieut. Colonel Fabian L. Pratt, Modical Corps, Commandant of the School of and Aviation Medicine. The invocation and benediction were delivered by Chaplain J.W. Westerman, of Randolph Field. 243 number of distinguished guests are late tives and friends of the student officers were present.

This class makes the forty-ninth to graduate from the School since its es-tablishment in 1919. In addition to the resident courses, the School also conducts a correspondence course for medical officers of the Organized Reserves and the National Guard: Sthere: are 448 students enrolled in this correspondence course at the present works time.

111 Second Lieutenants Phillip Thaddeus Durfee and Jack Ferguson Todd, Air () Reserve, the former hailing from Europe lingame, Calif., and the latter from b Visalia, Calif., have been assigned to extended active duty to April 6.1940 Lieut. Durfee was ordered to Hamilton Field, Calif., and Lieut. Todd to find March Field, Calif.

Announcement was made of the appoint-ment of Captain Cornelius O'Connor, Air Corps, to the grade of Major (temporary) with rank from March 20, 1939 ---000----V-8028, A.C. Hido, JIG

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BOUQUET FOR KELLY FIELD CHOW

A letter recently received by the Mess Sergeant of the Kelly Field Flying De-tachmant from the father of a Flying Cadet, who is a student in the Pursnit Section of the Air Corps Advanced Flying School, reads as follows:

"Dear 'Sarg': My son F/C A.V. has written to me several times about the wonderful food in the mess at the cadet mess. I had the pleasure of visiting Kelly Field and my son last week March 10th, 11th and 12th and being there at noon mess my son asked me to eat with him and I readi-ly accented as I still had visions and Ly accepted as I still had visions and remembrances of the Army food of '17, Lg and '19 and had not swallowed his

letters about the food at Kelly. Well Friday I had lunch with him and it was good but I did not say anything. Sunday, I had lunch with him again and that was right. After the meal I that he was right. After the meal 1 went with him to tell you personally about it hut was informed by the cook that you had left so an taking this means to let you know that all that my son has written is true and that the quantity, quality, and seasoning is all that apy fair minded person could pos-sibly want or wish for. All I have heard is 'oh Boy the food at Kelly.' S heard is 'oh Boy the food at Kelly.' S the causa of those earnest desires of the Causa of those over to Kelly Field.' is all So the Cadets to get over to Kelly Field." Alstaff Sergeant Childress, of Headquar-ters and Headquarters Squadron, Air Corps Advanced Flying School, is the Mess Ser-geant of the famous Kelly Field Flying Cadet Detachment Mess. -----64 130

COLONEL BRANT ADDRESSES MILITARY ORDER OFETHE WORLD WAR.

-Golonel Gerald C. Brant, Air Corps, Commandant of the Air Corps Technical School, substituting for Major General Henry H. Arnold, Chief of the Air Corps, was the principal speaker at the Army Day Celebration and Banquet conducted by the Military Order of the World War in Streibude, Mo.

General Arnold was prevented from attending the banquet, due to the press of official business. Colonel Brant entertained the Quartermaster General of the Army, Major General Harry Gibbins, at Channie Field during the morning of Aprilo6th, and departed, via air, early in the afternoon to fill the speaking engagement in St Louis engagement in St. Louis.

Master Sgt. Paul Kurutz, 11th Air Base Squadranz Air Corps, is placed on the retired list at Randolph Field, Texas, effective April 30, 1939.

FLYING CADETS ARE NOT ALL NOVICES

The Primary Stage at Randolph Field usually expects to start training Flying Cadets whose association with airplanes has been limited to seeing them from afar, but the present class of more than 350 student pilots built up 3,030 hours of flying time before re-porting to the "West Point of the Air." Thirty-one members of the class of 40-A had flown solo in planes, varying from the tiny power gliders to the larger single-engined cabin type air-planes. One Flying Cadet has a back-

planes. One Flying Cadet has a back-ground of more than 400 hours, while one young man reported his total flying experience as "one hour dual--one hour

experience as "one hour dual--one hour solo--one landing solo." A total of 69 of the Cadets had pre-vious flying time dual before entering Randolph Field, their records show. During the first two weeks of the present Primary class, more than 1,900 hours were flown, bringing many of the students up to and over the hum of students up to and over the hump of their first solo. The "Dodoes" - those who haven't soloed, are beginning to feel the weight of their goggles around their necks, the traditional position for goggles at all times, except when actually in an airplane. "I thought the weight of these things would put a permanent hump in my back," one cadet declared to his instructor, as he proudly raised his goggles to his fore-head after his first solo. Two officers who were recently re-

Two officers who were recently assigned to the Primary Stage as Instruc-tors are Lieuts. L.W. Proper and C.E. Peeler. The previous stations of these two officers were in Hawaii and Panama, respectively.

The Basic Stage at the Primary Flying School continues to maintain the sched-ule of flying despite the spring fog that often rolls in to blanket the airdrome during the early morning hours. Night flying, both dual and solo, is we well under way, flare landings having been started.

been started. Lieut. A.O. Lerche, former instructor on the Basic Stage, who received a com-mission in the Corps of Engineers, U.S. Army, last year, has been transferred back to the Air Corps and assigned to his former duty of instructor at Pandolph Field Lieut. Lerche spent Randolph Field. Lieut. Lerche spent his tour with the Engineers at Fort McIntosh, Laredo, Texas.

Gunnery exercises for the 15th Observation Squadron, Scott Field, Ill., be-gan April 3rd, when the outfit, under the command of Major Baez, took off for Eglin Field, Valparaiso, Fla. If shoot-ing weather holds up, the organization expacts to get in plenty of practice, as it will be down in Florida for the month of April month of April.

Members of the 5th Bombardment Group in the Hawaiian Department have for some time been endeavoring to construct and provide suitable targets for bombing Constant effort regulted in practice. a considerable improvement of target facilities, but weather conditions and other restrictions imposed by nature have made complete success difficult. While perfect flying weather is the rule rather than the exception in this general area, it is almost axiomatic that there are a few clouds over certain parts of the Islands, especially Oahu. The fact that these clouds usually exist over locations most suitable for target In adareas causes no end of trouble. dition, the physical features of Oahu are such that these areas are within the danger zone of seacoast and anti-aircraft artillery when those units are conducting

firing. Two targets were constructed and fixed in position in desirable locations adja-They have been used for cent to Oahu. considerable bombing but, as indicated, use of either or both is not always feasible. Under the accelerated program of bombing training, these targets are entirely inadequate for the needs of the Group. One means of solution has been in the use of aluminum slicks.

Certain designated areas, usually free of clouds, have been assigned for slick bombing. When neither of the fixed targets is available, it is often possible to continue bombing by dropping slicks in one of the areas assigned. The 23rd Bombardment Squadron has just completed a course of TR 440-40 bombing, using slicks extensively. Bombing was conducted every flying day, which would have ed every flying day, which would have been impossible if it had been necessary to use one of the fixed targets at all times. In general, very satisfactory results were obtained. Slick bombing, however, is hardly a complete solution of the problem. The slick disintegrates quickly in a heavy sea and is often dif-ficult to locate, especially when ap-proaches are made at any angle towards the sun. The expense of slick material is another adverse factor. Slicks are usable, however, and the fact that they provide needed targets is welcomed by the 5th Bombardment Group.

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Two Captains of the Army Air Corps were recently promoted to the grade of Major (temporary), Captain Park Holland, with rank from April 2, 1939, and Captain Donald F. Stace, with rank from April 10, 1939. First Lieut. Loren B. Hillsinger, Air Corps, was transferred to the Cavalry, April 5, 1939, and assigned to the 2nd Cavalry at Fort Biley. Kanaga

Cavalry at Fort Riley, Kansas.

RANDOLPH FIELD PARENT-TEACHERS ASSN:

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The Parent-Teachers Association of the Randolph Field Grade School recently held their annual election of office cers, with results as follows: 1007 L

President, Mrs. Arthur LaSalle Smith; Vice President, Mrs. Bernard Wallace; Secretary, Mrs. Paul Jacobs; Treasurer, Mrs. Wilber Lage, and Historian, Mrs. Robert Warren.

Following the election, an interesting and educational lecture was given by Dean Shelby, of the Department of its Education, University of Texas. a Theag Dean spoke on "Radio in Education," The entire school was fortunate in having Dean Shelby present and being able to a hear this authority to speak on a sub-ject in which he has won world renowing Dean Shelby has received the Rockee he feller Education Award for his treatise on this subject.

"The Parent-Teachers Association," declares the News Letter Correspondent, "can well afford to be proud of their local accomplishments in the past year, and their efforts as interested parents has brought to the School many celebraties who, in their treatment of manyo: educational subjects, have brought 134 about a closer and more cooperative understanding between the Parent and the instructor. 9. M L

"The Randolph Field Post Grade School is indeed a source of pride tosus asni parents at this command who are fortuin nate enough to have children attending the School, and in no small way do we attribute the high standing of the School to the Principal, Miss She the Burcham, assisted by Miss Jane Pope, Miss Lucille Jennings, Miss Dorothy Scully and Miss Betty Montgomery, fo for in their inauguration and execution of modern instruction principles who knows but from this School the future CHIEFS OF THE AIR CORPS may arise." _ 1991 9.52 32.20

3 1923 210 PERVERSITY OF THE WEATHER Stast 1001108

The 94th Pursuit Squadron, 1st Pure suit Group, Selfridge Field, Mich., dog completed a very constructive period of training at the gunnery camp at Walpa-raiso, Florida. First Lieut. Anderson remained several days after the Squadron teturned home and reports that the day after the Squadron left the weather cleared and the winds remained calmifor This is rather ironical, several days. because for the nine weeks the Squadron was at Valparaiso there were on by four or five days suitable for record for and it surely needed a couple of good days towards the end of the camp to the finish record. sione3 að **s**aga0 ----anqum 100

NEWSPAPER FEATURES FULL PAGE STORY ON ALL CORDS TRAINING CENTER.

Loful page story covering the one--year course of training at the Air Corps Training Center appeared in the Sunday edition of the KANSAS CITY STAR on March Sets; Photographs, supplied by the Ran-dolph Field Photographic Department, supplemented the article, written by Mr Justine D. Bowersock, aviation editor of the STAR, after a two-day visit to the South Texas School.

"Wan a student is 'washed out," as they say, it will be the decision of perhaps six officers who have had a to-sall of fifty man-years' experience as fiters." Mr. Bowersock declared in his story, which pointed out that, contrary story; which pointed out that, contrary to the opinion of many uninformed, every effortisemade to complete the training of as large a percentage of student pilots as possible. He outlined in de-tail the procedure of compiling daily grades for each student, followed at pe-riodic intervals by check rides by the flight commanders. Concrete examples, without names were cited by Mr. Bowerwithout names, were cited by Mr. Bowersoek, one case showing that a student had been transferred to another instructor when he failed to progress satisfac-torily with the original one. Later torily with the original one. Later -rides with two flight commanders and; finally, the Primary Stage Commander, confirmed the statement of the first in-structor that the student did not have the "makings of a military flier," as Mr. Bowersock phrased it. The KANSAS CITY STAR Aviation Editor was given a taste of actual instruction on a Frimary Trainer to give him an insight into the methods used. This was also incorporated in his feature story. YES OT ----000--rofe

ASSIGNMENT OF AIR CORPS OFFICERS TO COMMAND AND GENERAL STAFF SCHOOL.

Under Special Orders of the War Department, recently issued, nine Air Corps dents at the Command and General Staff School, Fort Leavenworth, Kansas, for the 1939-1940 course, reporting at this School not later than August 30th next. Estroof these officers, Major James A. Mellison, Captaing Charles P. Cabell, John H. McCormick, William L. Ritchie and Manald F. Stace, are at present on

John H. McCormick, William L. Ritchie and Danald F. Stace, are at present on duty mainstudents at the Air Corps Tac-tical School at Maxwell Field, Ala. The remaining four officers are: Major Samuel M. Connell, Mitchel Field, Notice New York. Major Edward W. Raley. Office of the Chief Office Air Corps, Washington, D.C. Major George P. Tourtellot, Instructor, Air Gorps, Michigan National Guard, sta-tioned at Detroit, Mich. Captain Thomas M. Lowe, Port Columbus, Columbus, Ohio.

Columbus, Ohio. .С.А.,

ADDITIONAL FUNDS FOR COMSTRUCTION PROJECTS AT RANDOLPH FIELD.

Sums of money from various sources, totalling \$47,813.55, have been allot-ted to Randolph Field, Texas, for neces-sary construction and repair work, ac-cording to Major F.D. Shawn, Quarter-master Corps, the Post Quartermaster. A W.P.A. project, amounting to \$40,000, has been approved for the rehabilita-tion of various buildings grounds and tion of various buildings, grounds, and for the construction of additional landing mats. Work on this project has been started and will provide employ-ment for 182 skilled and semi-skilled men until June 30th, it was estimated. Another allotment from the War De-partment, totalling \$11,584.55, has been made to Randolph Field for the menlacement of certain underground

replacement of certain underground cables. It is estimated that 38,000 feet of trenching will be necessary to complete the work. Improvements to the Aqua gasoline system also will be made from funds received from the State W.P.A., amounting to \$6,229,00. Con-necting lines from the gas system to necting lines from the gas system to the main storm sewer system will be made with these funds.

RIFLE AND PISTOL SHOOTING COMPETITION IN 46TH SCHOOL SQUADRON.

The annual small bore pistol and rifle matches for the Major Stanton T. Smith Trophy, conducted by the 46th School Squadron, were captured by Cor-poral Charles W. Jones with an aggra-gate score of 434. Corporal Jones thus gate score of 434. Corporal Jones thus displaced Corporal Norman G. Hower as Squadron Champion. The matches were held on the indoor range of the Squad-ron at Randolph Field.

Corporal Jones registered a 90 with the pistol, slow fire; 78 at rapid fire; 98 with the rifle, prone; 81 with the rifle, kneeling, and 81 with the rifle off-hand, to outdistance his closest competitor, Corporal Myron Lamparty, who took second honors with a total of score of 427.

score of 427. Other good marks turned in by some of the Squadron's shots included Private Elmer Johnson, with a 423 total; Corpo-ral Hower with 421, and Staff Sergeant Bangham, who placed fifth, with 415. Individual awards were as follows: Pistol medals - 1st place, Staff Sgt. Bangham, with a 95 out of a possible 100; 2nd place, Master Sergeant Steven-son; 3rd place, Corporal Jones. Rifle medals - 1st place, Corporal Jenes, with 266 points out of a pos-sible 300; 2nd place, Private Johnson; 3rd place, Corporal Hower,

Major Otto G. Trunk, Air Corps, was appointed a Lieut. Colonal (temporary) with rank from April 1, 1939. V-8028, A.C. -13NOTES ON AIR CORPS ADVANCED FLYING SCHOOL

Officers of the Air Corps Advanced Fly-ing School, Kelly Field, Texas, once again are confronted with the extremes in height in two of its Flying Cadets new undergoing advanced instruction with the present class (39-B).

Cadet Charles Edward Gregory, a native of Port Lavaca, Texas, who is specializ-ing in Attack Aviation, is nine inches taller than his classmate, Cadet Charles

Gardner Chandler, a native of Evanston, Ill., specializing in Observation Avia-tion, who is 5 feet, 5 inches tall. Cadet Gregory graduated in 1938 from the Texas A, & M. College with a B.S. degree, while Cadet Chandler attended Northwestorn University Northwestern University.

The present class undergoing instruc-tion at Kelly Field consists of 165 stu-dents, the second largest class to re-ceive advanced training in the history of the Air Corps Training Center. It is expected that graduation day for this class will be on May 31, 1939. class will be on May 31, 1939.

Eight Flying Cadets of Class 39-B at-tended Pursue University, West Lafayette, Indiana, prior to their appointment as such. They are Harvey Enil Grieger, Robert Lee Matthews, William Benjamin Reed, John Rinier Van de Lester, Paul Stanley Emrick, Bailey Cavenaugh Cook, Charles Houston Terhune, Jr. and Kenneth Wayne Sprankle

Wayne Sprankle. All of these students, save Cadet All of these students, save Cadet Cook, graduated from Purdue with a B.S. degree in Mechanical Engineering. Cadet Cook, son of the late Lieut. Colonel Seth W. Cook, Air Corps, U.S. Army, at-tended the U.S. Military Academy, West Point, N.Y., for two years; George Wash-ington University, Washington, D.C., for two years, and Purdue University for a similar period of time. He is special-izing in Attack Aviation izing in Attack Aviation.

Cadets Emrick and Van de Lester are specializing in Bombardment, and Cadets Grieger, Matthews, Reed, Sprankle and Terhune in Pursuit.

With the exception of Cadets Van de Lester, Cook and Terhune, the men of Purdue hold commissions as second lieut-enants in the Field Artillery Reserve, having had four years of ROTC training.

First Lieut. James Baird Buck. Infant-ry, a member of Class 39-B, who is spe-cializing in Bombardment, is the son of Major General Beaumont B. Buck, U.S. Army, Retired. Lieut. Buck graduated from the U.S. Military Academy in 1935, and prior to being ordered to flying training served three years as a commistraining served three years as a commis-sioned officer in the infantry.

Texas again leads all other States of the Union in representation in Class 39-B. The Lone Star State ledds with 14 students, closely followed by California with 11, and Illinois with 10. GiOtberi States represented by five or more state dents are Indiana and Minnesota, 7; Florida, Kentucky, Massachusetts and New York, 6; Kansas, Oregon and Peansyl-**Cad**ets vania, 5.

-5-0°III'0ai The only foreign students in Class of 39-B are four Philippine Army officers namely, 2nd Lieut, Blenvenido Exemical Ferrer, 3rd Lieuts. Victor H'Yongo Has Dizon, Ruperto Bayron Luzon and Lar

Godofredo Mariano Juliano. The bound and Lieuts. Ferrer and Luzon hold commissions in the regular Philippine Army and Juliano, who reported to Kelly Fields as Flying Cadets, were recently appoint-

ed 3rd Lieutenants by the Commonwealth Government of the Philippines. A bobact Lieuts. Luzon and Dizon are spezial izing in Observation; Ferrer in Furshit, and Juliano in Attack. Contrast, These four officers have high hopes.

of satisfactorily completing the id-vanced course of flying instruction bn or about May 31, 1939, at which time they expect to receive orders from a they expect to receive orders from their government, through the Mar De-partment, assigning them to tactical units of the U.S. Army Air Corps for duty and further instruction, pending the beginning of courses of instruction which they will be selected to pursus at the Air Corps Technical School at the Chanute Field, Bantoul, III and Lowry Chanute Field, Rantoul, Ill., and Lowry Field, Denver, Colo. Following such the post-graduate instruction, they will be return to their native country.

. . . Six members of Class 39-B are the sons of Regular Army officers, namely, Lieut. James Baird Buck, Flying Cadets Bailey Cavenaugh Cook, Jerry Dentler Page, Tarleton Harvin Watkins, Harrie Page, Tarleton Harvin Watality, Dean Riley and Frederick Gerald Wilson.

Lieut. Buck and Cadet Cook were pre-Lieut. Buck and Cadet Cook were pre-viously mentioned in these notes. Cadet Page, son of the late Colonel William Tracy Page, Infantry, born sti-Manila, P.I., 24 years ago, graduated from the University of Southern Cali-fornia in 1937 with a B.S. degree. Cadet Watkins is the son of Captain W.W. Watkins, Air Corps, U.S. Army, of Aberdeen Proving Ground, Md. He at-tended the University of Maryland, the University of Dayton and Texas A. & M.

University of Dayton and Texas A. & M. College. 412.52 -

Cadet Riley, 25, who was born at 120 Poughkeepsie, N.Y., attended the 20 50 Michigan College of Mining and Technol ogy for three years. He is the gon of Major Harrie D.W. Riley, Corps of Engineers

Cadet Wilson, 22, son of Lieuts (Cell Louis C. Wilson, Q.M.C., was bornisins) Washington, D.C., and graduated in 1938 from Ohio Wesleyan University with a

Bachelor of Arts degree. Cadet Watkins is specializing in Attack, Cadet Riley in Pursuit, Cadet -14-V-8028, A.C.

WilsonCin Bombardment and Cadet Page in Obtervation Aviation.

Seven former enlisted men of the Regu-iar Army are members of Class 39-B. Cadets Harry Gilbert Libbey, Lawrence Monroe Brooke, Clair Edmind Ryan, John Irvine De Vine, Jr., and Ralph Monroe Faweatt serving with the Air Corps, James Dimitri Motyl with the Coast Artillery, and Franklyn Thomas Green with the Corps of Engineers. They are receiving speci-alized training at Kelly Field, as fol-lews: Flying Cadets Motyl, De Vine and Faweatt as Observation Pilots and Air-plane Observers: Brooke and Ryan as Atplane Observers; Brooke and Ryan as At-tack pilots and Libbey and Green as Purmitrigd lots.

Charter Libbey, 25, of Mobile, Ala., at-tended Springhill College, 1934-1935, and Centenary College in 1938. J Cadet Brooke, 24, of Mission, Texas, attended Wentworth Military Academy for

two grains,

Cedet Green, 25, of Bolivar, New York, attended Cornell University from 1932 to **1934:**25 (F

Cadet De Vine, 22, of Atlantic City, N.L.C. attended Pennsylvania Military Colleget from 1934 to 1937. Cadets Motyl, 27, of Wilson, Conn.; Rysn. 26, of Springfield, Minn.; and Pawcett, 27, of Ottawa, Ohio, received thete: Gadet appointments through the d their Cadet appointments through the difficult process of passing the written veducational examination required in the absence of the required amount of college credite.

Major Robert T. Cronau, Air Corps, Post Operations Officer of Kelly Field, was recently named as president of a special Flying Cadet Examining Board which will function for a period of two months, be-ginning April 5, 1938, visiting colleges and universities in the 7th and 8th Corps Areas for the purpose of contact-ing prospective applicants for appoint-ment as Thying Cadets, selecting and ex-amining applicants for such appointment, and disseminating information on the subject of flying training at the Air Corps Training Center. The states to be withted include Missouri, Kaness, Jowa visited include Missouri, Kansas, Iowa, Arkansas, Nebraska, Minnesota, North Dakota, South Dakota, Texas, Oklahoma, Golorado, New Mexico and Arizona.

Two other members of the Board are

Two GLAST members of the board are Captain Edward J. Kendricks, Medical Corps, and 1st Lieut. Jacob E. Smart, Air Corps, both of Randolph Field. Major Gronau, atationed at Kelly Field since September 10, 1936, was Director of Flying of the Advanced Flying School from June 15, 1937, to June 16, 1938. He has been serving as Fost Operations Offi-centsince February 18, 1937.

cenisince February 18, 1937.

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RESERVE OFFICERS COMPLETE REFRESHER COURSE.

Four Reserve officers of the Air Corps, all second lieutenants, satis-factorily completed the prescribed course of instruction at the Air Corps Advanced Flying School, Kelly Field, Texas, on March 31, 1939. They are Albert J. Baumler, of Trenton, N.J.; Christian J. Jensen, of Eureka, Kansas; Seth S. Strachan, of Portland, Oregon, and Wm. H. Turner, of San Antonio, Texas.

Lieut. Strachan, who specialized in Bombardment Aviation, was assigned to duty at March Field, Riverside, Calif., and departed for his new station on April 5th. Lieuts. Baumler, Jensen and Turner, all of whom specialized in Pursuit Aviation were assigned for duty with

Aviation, were assigned for duty with the Air Corps Advanced Flying School on April 1st as instructors in Pursuit, Bombardment and Attack, respectively.

HANDLING THE AIR TRAFFIC AT THE ARMY FIELDS NEAR SAN ANTONIO.

Kelly Field's Post Operations Office joined with the main lines of the Civil Aeronautics Authority teletype system, beginning on April 1st, to handle air-craft movement messages for all the Army air fields in the San Antonio area (Randolph, Brooks, Dunean and Kelly). The office was tied in with Circuit 53 of the C.A.A. teletype system, which includes nearby as well as

distant points. Three teletype machines were recently installed in the Kelly Field Operations Office. Upon receipt of aircraft movement messages from all points of the United States, the operator delivers them to the Operations Chief Dispatcher who, in turn, posts the various infor-mation contained in the messages on the huge Aircraft Traffic Board maintained in that office. The upper portion of the board is reserved for Kelly Field navigation flights, and it is the ex-ception when all lines are not filled in; particularly during student naviga-The lower part of the tion training. The lower part of the board is for the handling of transient aircraft traffic, and hardly a day goes

by without at least several visiting pilots' names being registered thereon. Frequently, and especially over week-ends, the twenty or more lines are completely occupied with visiting plane data arriving at Kelly Field from Air Corps stations all over the nation on routine training missions. Aircraft movement messages which concern the other three Army air fields in the San Antonio area are relayed to the respective Operations Offices by Kelly Field (Continued on Page 16), V-8028, A.C.

PERSEVERANCE WINS

Private Walter Richard Taliaferro, whose name conjures up memories of the early days of military aviation, appears to be on the road toward realizing his ambition of becoming a commissioned officer of the United States Army. Recently this 21-year old enlisted man of Kelly Field, Texas, was the recipient of an appointment to the United States military Academy, West Point, N.Y., tendered him by the Hon. Brent Spence, representative in Congress of the 5th Congressional District of Kentucky. Private Taliaferro won the commetitive

Private Taliaferro won the competitive examination conducted by Mr. Spence at Fort Thomas, Ky., last November, and expects to receive orders directing him to report to the United States Military Academy for the class beginning July 1, 1939. He is the son of Lieut. Colonel Lucien H. Taliaferro, U.S. Army, Retired. Private Taliaferro served a one-year

Private Taliaferro served a one-year enlistment with the 15th Field, Artillery at Fort Sam Houston, Texas, and then reenlisted with the Air Corps on July 13, 1937, since which time he has been a member of the Headquarters and Headquarters Squadron of the Air Corps Advanced Flying School. During his enlisted service in the Regular Army, he attended the West Point Preparatory School at Camp Bullis, Texas, for sixmonth periods during the past three years.

Aside from his ambition to graduate from West Point, Private Taliaferro is also anxious to be permitted to undergo flying training at the Air Corps Training Center and become a flying officer, in order that he may follow in the chosen career of his famous uncle, the late 1st Lieut. Walter R. Taliaferro, Aviation Section, Signal Corps, who at the time of his unfortunate death in an airplane accident at San Diego, Calif., in 1915, was the holder of the endurance flying record in heavier-than-air craft.

Handling Air Traffic at Kelly Field (Continued from Page 15).

on a local or more commonly known "pony" circuit,

Circuit 53 handles only aircraft movement messages, and in view of this exclusive service is able to give instantaneous information to all receiving stations on the movement of aircraft. Weather reports will continue to be received and sent by the Kelly Field Weather Office, which is also housed in the Post Operations Office but as a separate activity, over Circuit 18 of the CAA teletypesystem. The Kelly Field Operations Office is a bachive of activity for in addition to

The Kelly Field Operations Office is a beehive of activity, for in addition to handling an immense amount of aircraft traffic movements it also maintains the Flying Time Record Section, which records the flying time of all the permanent flying personnel assigned to that airdrome, as well as those pertaining to the approximately 200 students normally receiving training at the Air Corps Advanced Flying School. Other activities of the Operations Office include a Map and Navigation Section which maintains and keeps posted the latest navigation maps and information on the many aids to air navigation, for the use of the several hundred rated and student airplane pilots at Kelly Field. The Airdrome Control Section handles incoming and outgoing traffic, and the Miscellaneous Section handles miscellaneous administrative work of this important activity.

Ant activity. Major Robert T. Cronau, Air Corps, is the Post Operations Officer. His staff consists of Warrant Officer Joseph Brown, U.S. Army, Chief Clerk; assisted by Staff Sergeants Collin L. DeBall and Frederick W. Seidler, both veterans of many years service at Kelly Field; and 15 additional enlisted men, all of whom are members of the Headquarters and Headquarters Squadron, Air Corps Advanced Flying School.

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FORCED LANDING REPORT

Poor Doe was flying around one night As complacent as could be, Thinking of two months from now, When a Second "Luey" he'd be.

He was thinking of that Gal back home, As he whipped about the sky. Everything was as he had planned, And his spirits rose on high.

Suddenly his motor conked, It sputtered and it spit. Poor Doe just sat there frozen, And he nearly had a fit.

All his dreams turned to the past tense His head whirled as it fell. "An Officer-husband I'll never be, Cuz I'm headed straight for H..."

But he did recover consciousness And glided toward the Field, He made it by the Fates above And the magic that they wield.

"A 5 star landing this will be And my classmates I will thank." But instead he got two silver stars For running on an empty tank. - Submitted by an anonymous Attack student, A.C. Advanced Flying School.

The Annual Conference of Air Reserve Officers will be held this year at Mitchel Field, L.I., New York, on Monday, Tuesday and Wednesday, October 9th, 10th and 11th. October 10th is designated as "Air Reserve Officers Day" at the N.Y. World's Fair. V-8028, A.C.

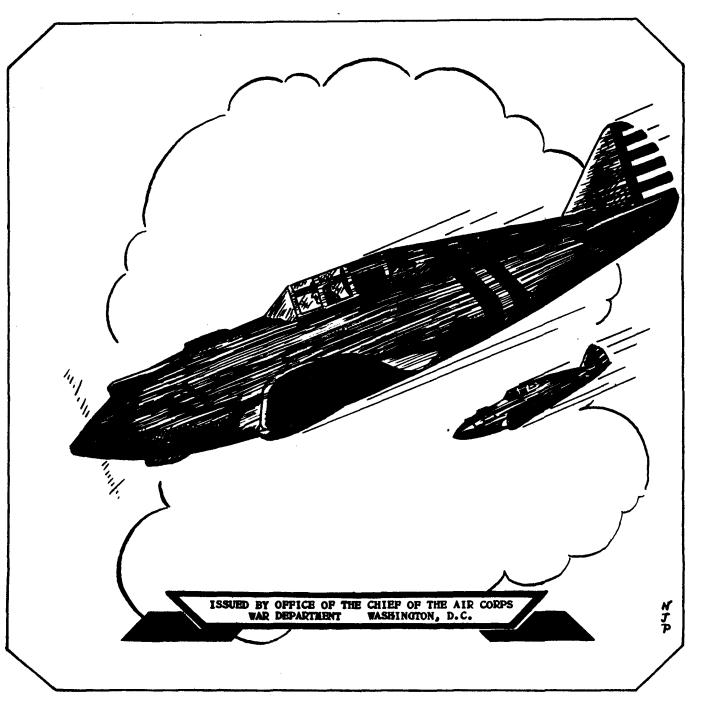
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VOL. XXII	AIR	CORPS NEWS	LETTER NO. 9.
Information Div Air Corps		May 1, 1939	Munitions Building Washington, D.C.

The chief purpose of this publication is to distribute information on aeronautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation.

HEAVY DUTY TRACTOR FOR TOWING AIRPLANES

A heavy-duty tractor for towing large airplanes has appeared on the flying line at Wright Field, Dayton, Ohio. As it pulls the great skyliners from flying field to hangar, it reminds one somewhat of the small tugs which draw the huge ocean liners from their harbor piers out into deep water.

This small tractor, although not constructed of iron, is known in hangar parlance as the "iron mule." Weighing approximately 6,000 pounds, it develops a drawbar pull in excess of 4800 pounds. It is 108 inches long, 67 inches wide, and has a 6-inch clearance. Fenders cast to a thickness of approximately four inches provide weight and ruggedness. It is designed especially for towing large airplanes such as the B-15, B-17, etc. It is powered with an engine capable of 40 brake horsepower at 1800 r.p.m.

at 1800 r.p.m. Operated by one man with the conventional automotive controls, it is about twice as powerful as the towing trucks previously designed. It starts very gently, so that there is no jar to the airplane. The top speed is a trifle over 15 m.p.h., while its low speed is that of barely perceptible movement. It is capable of turning within a circle having a radius of 122 inches. The towing facilities on airports for large airplanes will be greatly improved by the advent of this equipment.

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ACCESSORY POWER PLANTS

The Materiel Division, Wright Field, Jayton, Ohio, has been actively engaged for some time in the development of accessory power plants. These power plants, which consist of a small gasoline engine on which is mounted an electric generator, are for the purpose of making available power other than that obtained from the aircraft propulsion engine. This additional power of the accessory system is used for the operation of generators, pumps, and many other items of electrical equipment.

A 10 KVA (kilovolt-amperes) power plant, designated as Westinghouse AC-101, has been delivered to the Materiel Division and has successfully completed a 150-hour type test. This is the first unit to complete such a test, as the two power plants now being used in the XB-15 airplane were submitted to only a 50hour test, due to the necessity of delivering them to the airplane contractor. The Westinghouse unit is small and comment and occupies the space of a cube

The Westinghouse unit is small and compact and occupies the space of a cube approximately two feet on each side. It consists of a four-cylinder, air-cooled engine with double crankshafts. A roots blower to provide internal supercharging is mounted between and is driven by these crankshafts. A 10 KVA alternator is mounted directly on the engine crankshaft and crankcase. The weight of the unit is 330 pounds, which is distributed

as follows: Engine, Alternator, 165 pounds 125 11 25 It Voltage regulator, Battery charger, 15 " Tests show that the unit could be rated at approximately 25 percent higher capacity than required by Air Corps specifications. This over-rating accounts for a part of the fixed weight, which is higher than desired. Econom-ical fuel results were obtained during the type test. Values for specific fuel consumption were as follows: 50 percent load - 1.73 lb/kw. hr. 75 percent load - 1.3 lb/kw. hr. 100 percent load - 1.1 lb/kw. hr. 125 percent load - 1.0 lb/kw. hr. 150 percent load - 0.96 lb/kw. hr. These values may be compared with those of the conventional engine-driven generator now used in the majority of Air Corps airplanes, where a specific fuel consumption of 1.1 pounds per kilowatt-hour was obtained. The oil consumption at 75 percent load was .0364 pound per kilowatt-hour. At this value it would require two gallons to provide sufficient oil with a 50 percent reserve for a 50-hour flight. The unit will be subjected to further development to reduce the fixed weight.

Instructions from the War Department were received recently by the Commandant of the Air Corps Advanced Flying School, Kelly Field, Texas, that the present class now undergoing instruction at this school will be graduated on Thursday, May 25, 1939, with the customary gradua-

tion day ceremonies. The Flying Cadets are to be commission-ed second lieutenants in the Air Corps Reserve on May 25th, discharged from their enlisted status the same day, and ordered to extended active duty at Kelly Field on May 26th for a period of ten days prior to being ordered to various Air Corps stations. These newly commis-sioned Reserve officers will be placed on commutation of quarters status for the ten-day period of active duty at Kelly Field.

Class 39-B. which commenced training class 39-B, which commenced training at Kelly Field on February 25, 1939, consists of 4 Regular Army officers, 4 foreign officers and 157 Flying Cadets, and no losses have occurred to date. The class has been making satisfactory prog-ress and is maintaining its prescribed schedule. Since training began, a total of 42 days was lost from flying, due to inclement weather inclement weather.

LAST OF RESERVE OFFICERS COMPLETE REFRESHER COURSE AT KELLY FIELD.

The last of the 18 second lieutenants of the Air Corps Reserve have completed the special refresher course of instruc-tion at the Air Corps Advanced Flying School, Kelly Field, Texas.

Second Lieutenants Arthur A. Aro, Earl A. Field, Walter R. Ford, Arthur A. Goldsmith and Douglas N. MacOdrum, completed the prescribed course on April 7th. Lieuts. Aro. Ford and MacOdrum 7th. Lieuts. Aro, Ford and MacOdrum spe-cialized in Bombardment Aviation, the first two named officers being assigned to March Field, Calif., and the last named to Mitchel Field, N.Y. Lieuts. Field and Goldsmith specialized in Attack Aviation, the former being assign-ed to Barksdale Field, La., and the lat-ter to Langley Field, Va. Nine of these officers completed the prescribed course of instruction

prescribed course of instruction on April 14th, Lieuts. Wilson Gillis, Jesse C. Hayes, Clifford W. Ludwig specializ-ing in Attack Aviation; Lieuts. George W. Ireland and William N. Vickers, Jr., in Bombardment Aviation, and Lieuts. Fred S. Shine, James W. Stowell, John M. Tillman and Andrew B. Walker in Pursuit Aviation.

Lieuts. Gillis, Ludwig, Shine, Walker, Tillman were assigned to station at Barksdale Field, La.; Lieuts. Hayes and Vickers to March Field, Calif., and Lieuts. Ireland and Stowell to Langley Field, Va.

The other four of the 18 Reserve offi-

cers referred to, completed the course on March 31st, as mentioned in the pre-vious issue of the Air Corps News het-ter. These four officers are Lieuts. Albert J. Baumler, Christian J. Jessen, Seth S. Strachan and William H. Turner. Lieut. Strachan, who specialized in Domberdment res sesigned to duty strained Bombardment, was assigned to duty at March Field, and the remaining three officers, who specialized in Pursuit, were assigned to duty at the Advanced Flying School, Kelly Field, as flying instructors.

A total of 42 second lieutenants of the Air Corps Reserve were given the refresher course of training at Kelly Field during the period of Classes 39 and B, bringing the grand total to 75 trained since the initiation of this type of training.

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NARROW ESCAPE FOR KELLY FIELD CADET

Flying Cadet John Irvine DeVine, Jr., 22, of Atlantic City, N.J., a student in the Observation Section of the Air Corps Advanced Flying School, Kelly Field, was on April 19, 1939, forced to resort to his parachute in order to save his life.

Cadet DeVine had been on a day and Cadet DeVine had been on a day and night navigation mission to Barksdale Field, La., in an 0-25 airplane with the Observation Section. After clear-ing Hensley Field, Dallas, Texas, on the return night flight, he was unable to regain control of his airplane which had gone into a spin. He resorted to his 'chute and landed safely about 10 miles south of Waco, Texas. The 0-25 airplane he was piloting was completely airplane he was piloting was completely demolished though, fortunately, there was no damage to private property or injury to either the pilot or other persons.

Cadet DeVine phoned this information to Kelly Field Headquarters late Wed-nesday night, April 19th. At this writing the full details as to the cause of his "bailing out" are not definitely known.

Captain Charles D. McAllister, Air Corps, Base Engineering Officer and member of the Aircraft Accident Classification Committee, departed from Kelly Field in an 0-43 airplane for the scene of the crash, in order to inves-tigate the accident and return Cadet. DeVine to Kelly Field. ---000---

Two Air Corps officers under orders for duty in the Office of the Chief of the Air Corps, Washington, D.C., are Majors Harold L. Clark and Paul E. Majors harold L. Clark and Faul L. Burrows. The former is nearing the completion of his tour of duty in the Hawaiian Department, while the latter has been serving with the Organized Reserves in the 9th Corps Area, and SLA tioned at Pearson Field, Washington 2- V-8043, A.C. STUDY COURSES FOR OFFICERS OF FIFTH BOMBARIMENT GROUP.

Examinations held in several subjects during the last week of March completed most of the training conferences that have been conducted every available afternoon during this calendar year. I courses which have been completed in-The courses which have been completed in-clude Bombardment Aviation and Air Force, conducted by Major K.N. Walker; Recon-naissance Aviation, by Captain Homer W. Ferguson; and a course in Chemical War-fare, under the supervision of the 18th Wing Chemical Officer, Captain Sterling E. Whitesides, C.W.S. In addition, sev-eral lectures of one or two-hour dura-tion have been given on important subtion have been given on important subjects.

The courses in Bombardment Aviation and Air Force followed the latest texts on the subjects now being used for in-struction by the Air Corps Tactical School. A complete and detailed course of instruction was given, at the same time affording officers the opportunity of advancing their own theories, ques-tions and ideas relative to all phases of the training. All officers of the Group feel that instruction in these courses has been of the greatest inter-est and has provided an unusual opportu-nity for training. The course in Reconnaissance Aviation

was especially interesting to officers of the Fifth Group, due to the fact that most officers were trained in Bombard-ment Aviation. The problems and scope ment Aviation. The problems and scope of Reconnaissance Aviation, as ably ex-plained by Captain Ferguson, were to many an entirely new phase of training and, therefore, proved to be extremely interesting. The Chemical W

The Chemical Warfare course included all officers, as well as noncommissioned officers of the first three grades, of the Air Base and of the Group who had not previously attended the school. A not previously attended the school. A total of ten hours' instruction was given to more than two hundred officers and noncommissioned officers. Included in the course was a trip to the Chemical Warfara Depot at Schofield Barracks, T.H. where practical instruction was given in identifying modern war gases and in neutralizing contaminated areas. -----. Ė

ASSIGNMENTS OF INDUSTRIAL COLLEGE GRADUATES.

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Effective upon the completion of their present course of instruction at the Army Industrial College, Washington, D.C., Majors Howard Z. Bogert, Emile T.Kennedy, Alfred W. Marriner, Clifford C. Nutt, Rudolph W. Propst, Captaing Lawrence C. Greigle and Clerence S. Irvine are ass-signed to duty with the Materiel Divi-sion, Wright Field, Dayton, Ohio, and Major Fred S. Borum in the Office of the Chief of the Air Corps, Washington, D.C. Effective upon the completion of their

With the greatest of solemnity and military pomp, a citation was bestowed upon a member of the command of Hamilton Field, Calif., at 10:00 a.m., Sat-urday morning, April 8th. That member was "Teddy," the Flying

Dog. It seems that Teddy first came to the notice of the Hon. Louis Johnson, Assistant Secretary of War, during a flight in which both participated (part of Teddy's regular cross-country training), when Mr. Johnson thought he could partake of a sandwich, which had been partake of a sandwich, which had been brought along for lunch, without offer-ing some to the pup. Teddy not only protested, but did it in typical dog fashion, via the teeth way on one of Mr. Johnson's pedal extremities. It was nip and tuck over the lunch for a while, it is told, but all ended well, with Teddy reclining, for the re-mainder of the flight, on the lap of the Assistant Secretary of War

the Assistant Secretary of War,

The Hamilton Field Correspondent transmitted to the Information Division a photograph of the citation, which is printed in Old English type. Two lengths of narrow ribbon are fastened along the left margin of the document by means of two seals, one at the top and one at the bottom of the sheet. The citation reads as follows:

"To All Who Shall See These Presents, Greetings:

This is to Certify that "TEDDY" is hereby awarded this Distinguished Flying Dogtificate for Especial Performance While Participating in Aerial Flights

Teddy, flying mascot of the Seventh Bombardment Group, Hamilton Field, California, by his endurance and digni-fied restraint, by his alertness and pleasing impression on airplane person-nel during long, fatiguing flights, by his enthusiasm while flying 524:45 hours, has brought great credit to himself, high morale to the Seventh Bombardment Group, and fine service to the Army Air Corps.

Given under my hand at the City of Washington

This first day of April, 1939.

LOUIS JOHNSON The Assistant Secretary of War." -000-

Lieut. Colonels Laurence F. Stone and Gerald E. Brower, Air Corps, are under orders for duty as Instructors at the Command and General Staff School at Ft. Leavenworth, Kans. At present Col. Stone is on duty at Selfridge Field and Col. Brower is a student at the Army War College.

V-8043, A.C.

KELLY AIRMEN SEARCH FOR COAST GUARD PLANE,

At about 9:00 a.m., April 7th, the Commandant of the Air Corps Advanced Flying School, Kelly Field, Texas, Colo-nel Frank D. Lackland, received a radio-gram from the Commanding Officer of Biggs Field, El Paso, Texas, stating that Lieut. Grantham, of the Coast Guard Air Service, had left Biggs Field the day before for Galveston, Texas, via Del Rio and San Antonio, and that no word had been received from him after he was had been received from him after he was sighted over the Airdrome at Marfa, Texas. The radio asked for assistance from Kelly Field.

Within an hour after the receipt of this information, a crew of eight officers, one airplane mechanic and one radio operator, in five Observation type airplanes, in command of Colonel Eugene A. Lohman, Assistant Commandant of the A. horman, Assistant commandant of the Air Corps Advanced Flying School, took off from Kelly Field to conduct a search for the missing plane, while the local radio stations were requested to broad-cast this information and wire any "clues" to Dryden, for Colonel Lohman's information information,

Later in the day the Kelly Field party was joined by three Coast Guard planes. The available information was very

meager, but the search got under way in the rugged country in the vicinity of Alpine and Marathon, Texas. The following day, Colonel Lohman re-ceived a report that three survivors were at a ranch house 30 miles south of Alpine. They reported that the pilot of the pilone resting he meet in a storm the plane, realizing he was in a storm in mountainous country and there was no hope, had ordered them to jump. The three Coast Guard enlisted men were successful in "bailing out" and the pilot went down with his plane, which burned when the crash occurred.

Colonel Lohman stated that the Coast Guard authorities acted very efficiently and were prepared for an intensive search. Two radio trucks were dispatched to Dryden; fuel was placed at Marfa, and authority was obtained from the Mexican government to permit Army and Coast Guard planes and other equipment to enter Mexico at will.

The feeling of respect and cooperation between the two Air services was demon-strated by the promptness with which Army authorities responded to the request to search for the Coast Guard plane, and the manner in which the Coast Guard authorities turned over equipment and other facilities to Colonel Lohman.

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COMMENDATION FOR SERGEANT HARTLEY

Technical Sergeant Earnest H. Hartley, 63rd School Squadron, Air Corps, Kelly Field, Texas, received a letter of com-Field, mendation from the Commanding Officer of

the Station Hospital at Fort Sama Houston, Texas. Sergeant Hartley was a blood donor on March 27th in the case of Mrs. Madeline Toohey, wife of Technical Sergeant Thomas F; Toohey; Air Corps. This letter was forwarded to Sergeant Hartley by Colonel FrankiD. Lackland, Commandant of the Air Corps Advanced Flying School, who added This commendation thereto. 11.25940 UL

When the call for volunteer bloed is donors was made, 18 enlisted mangefris Kelly Field volunteered within theurs hour, three being sent to the Station Hospital for typing and Sergeant average Hartley being selected. ------bned hand

rejers

CHILEAN AIR ATTACHE VISITS KELLY TIELD the center

Squadron Leader Ismael Sarasua, Alr Attache to the Chilean Embassy Staita ed Kelly Field on April 18th, and w ő. shown all activities and installations there by Colonel Lohman, Assistant Commandant of the Air Corps Advanced F194 ing School

Squadron Leader Sarasua expressed ed to him and stated that his visit was very instructive. Prior to his arriv al at Kelly Field he had visited of a Langley, Maxwell and Randolph Fields? Upon his departure from Kelly Field he was scheduled to visit Fort Leavene al OTE *ा .*उ ្រក្ស worth, Kansas. rado ons 🛛 🗸

11. USBW#36 FILIPINO OFFICER IN FORCED LANDING 3010117

Third Lieutenant Ruperto Bordazon wof the Philippine Army Air Corps, who is a student in the Observation Section Section the Air Corps Advanced Flying School at Kelly Field, Texas, made a forced a landing about midnight April 19th, Job some 15 miles north of San Antonio Ja while on a return night flight from a Hensley Field, Dallas, Texas, affective visiting Barksdale Field during detail light hours. Lieut. Luzon reported that the 0-38 airplane he was plloting ran out of gas, and he located a land ing area in open country by the use of his aircraft flares. He made a successful landing without any injury to himself or damage to the airplane. On the morning of April 20th Cartain Russell E. Randall, Air Corps, Chief of the Observation Section, flew an 0-58 airplane to the scene of the landing, carrying with him 1st Lieut, that les, F. Densford, Jr., Observation Instruc-tor. The latter, after servicing Lieut, Luzon's airplane, flew it back to Kelly Field. cessful landing without any injury to to Kelly Field. knur led slaa --- 000--

During March, the Engineering Depart-ment, San Antonio Air Depot, During Milling Texas, overhauled 12 planes and 13 engines gines and repaired 35 planes and 13 engines V-8043, A.C.

ALRCRAFT CLOCK

Byathe Materiel Division Correspondent

There has been standardized for Air Corpanyee an eight-day clock that would see the answer to the question of timesfor the pilot and navigator for purposes of dead reckoning. This clock is the Type A-8. It is larger than that in present use, having mounting dimensions corresponding to the altimeter, air speed indicator, and other like instruments,

aThesindications shown on the dial are conventional or zone time, elapsed time from a departure, and a stop sweep sec-ond hand. The dial is 22 inches in diameter, with the time graduations around the periphery and the hands mounted in the center. The hand runs continuously.

The elepsed time dial is a small circle of graduations between the top of the dist and the center. There are two hands for this dial, indicating hours -and minutes. These are controlled by a push knob near the eight o'clock posi-tion. Successive operation of the push knob causes the elapsed time hands to starts stop, and to fly back. South a stop sweep second hand is con-troping by a push knob at the four o clock position. Successive operation of the knob causes the sweep second hand to stort to stop and to fly back hand to start, to stop, and to fly back. In addition to the seconds indications

In addition to the seconds indications around the periphery of the dial, there is another small circle of graduations between the six o'clock position and the center. On this dial is indicated the minutes to sixty accumulated by the sweep second stop hand (a minute regis-ter). The hand on this dial turns counter-clockwise. Mader the six o'clock position is a small knob controlling the color of a dot immediately above. This is used to stop and start the elapsed time hands at any position of their travel. When the elapsed time hands are started, a dot in elapsed time hands are started, a dot in that (upper) dial turns to red, when stopped it is half red and half white, and when the elapsed time hands are at their zero position the dot is white. If, for any reason, it is desired to take "time out" on the elapsed time in-dications, the small knob at the bottom is turned clockwise which causes the lower dot to show white. The elapsed time hends may then be started again by turning this knob counter-clockwise to cause the lower dot to show red. Regardless of the starting or stopping of the elapsed time and stop sweep sec-ond hand, the conventional time indica-tions continue running at the same rate. and the elapsed time hands are at

tions continue running at the same rate. The clock is wound by turning the knurled sleeve around the elapsed time much knoh counter-clockwise. One should first term t to turn this kneb or sleeve clockwise as there is no ratchet, the in-.0.A .510 M

bulky complications in the clock and Case.

Every organization conducting service test of this equipment has recommended its standardization. ------

MORE P-12 PLANES FOR ADVANCED FLYING SCHOOL.

All of the P-12 type of airplanes in the Panama Canal Zone are being shipped, dismantled, by freighter to the United States, destined for the Advanced Fly-ing School at Kelly Field, Texas. Despite their age, the P-12's are in excellent condition and show the excel-

lent maintenance they have received in the Parama Ganal Department. "Certainly they will be of greater value in train-ing than the older types in use at the present time at Kelly," declares the News Letter Correspondent. "Their departure leaves a blank file in the Air Corps equipment in the Canal Zone, where their versatility was put to good use."

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DUTY ASSIGNMENTS OF GRADUATES OF THE ARMY WAR COLLEGE.

Effective upon the completion of their present course of instruction at the Army War College, Fort Humphreys, D.C., the following-named Air Corps officers, now on duty as students at this institution, are assigned to duty, as follows:

Lieut. Colonel William O. Ryan to duty as instructor at the Army War College.

Lieut. Colonel Oliver P. Echols to the Air Corps Materiel Division,

Wright Field, Dayton, Ohio. Major Max F. Schneider to Maxwell Field, Ala., for duty with the Air Corps Board.

Major Victor H. Strahm to Langley Field, Va.

Lieut. Colonels Arthur B. McDaniel, George E. Stratemeyer, Major John E. Upston and Captain Hoyt S. Vandenberg to the Office of the Chief of the Air Corps, Washington, F.C. Major Morton H. McKinnon to Mitchel Field, N.Y.

Lieut. Colonel Edmund W. Hill to Bolling Field, D.C.

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Three Air Corps officers, now on duty in the Office of the Chief of the Air Corps, are under orders for duty as students in the 1939-1940 course at the Army Industrial College, Washing-ton, D.C., namely, Lieut. Colonels Michael F. Davis, Arthur E. Easterbrook and Captain James W. Spry.

NEW PHOTO LABORATORY FOR MARSHALL FIELD

A photographic laboratory for Marshall Field, Fort Riley, Kansas, is being built around the old Ploip Bungalow on the west end of the hangar line. The construc-tion will be of stone, tile, and conrete throughout. To eliminate all dust and insects it is contemplated filtering insects, it is contemplated filtering all air entering the laboratory. The photographic personnel are looking forward to moving from the present location (three rooms in the hangar wing) to the

new laboratory designed for photographic purposes sometime in June. Plans for the new laboratory were drawn up by 2nd Lieut. Hilmer C. Nelson, photographic officer, with the able as-sistance of Warrant Officer Nico G. Loupos and Technical Sergeant Lambert C. Walsh. -----

COMMENDATION FOR NATIONAL GUARD PILOTS

Lieuts. Robert L. Ainsworth and Harley A. Teall, of the 120th Observation Squadron, Colorado National Guard, were commended officially by Major General Albert H. Blanding, Chief of the National Guard Bureau, in a letter received April 10, 1939. While on an aerial mission during army

maneuvers in Wyoming last August, they saw a cloudburst wash away a railroad bridge. The prompt measures they took to report this occurrence no doubt re-sulted in the saving of lives and pro-perty. At a formation following drill on the night of April 12, 1939, Major Frederick W. Bonfils, Commanding Officer of the Squadron, read General Blanding's letter of commendation to the personnel letter of commendation to the personnel thereof.

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THE LANDING FIELD AT FORT KNOX, KY.

The 12th Observation Squadron (C. & A.) is now using the major part of the halves of two runways when the wind permits. However, between the soft shoulders and fifteen-foot drops on the sides of the one hundred-foot strips and an inclined angle of only fifty degrees between run-ways there are frequently unfavorable winds that preclude using the field. Due to the hazardous conditions, the field has not yet been opened to visitors lest some pilot (like many of us have done, according to the News Letter Correspond according to the News Letter Correspondent) should come in without having previously carefully read the Notice to Pilots. The Correspondent states that if the too-frequent rains abate for a spell, it is hoped to open the field by the end of May at the latest. Even then the utmost caution will be necessary, because it will fill the fifteen-foot canyons. because it will take many months to

THE NAMING OF HICKAM FILDE allia By the News Letter Correspondents?

In an airplane accident at Fort bus Crockett, Texas, on November 57 1934, SE there died one of the most outstanding officers in the Air Corps - Lieutstanding Colonel Horace M. Hickam - and 1971 in hinor of his memory that Hicken 1990 $1 \otimes t$ Field has been named.

In the naming of the boulevards, puri parks and avenues of the new algobase ** the War Department deemed it appropriate to remember also those pioneers of aviation who were killed in the AMEROC Hawaiian Iglands as the result of air-plane accidents through the years. TA It was in 1917 - twenty-two years from

ago - that the first aviation unit are' rived in Honolulu. During these news years, that one small unit has growers to a powerful arm in the combined defined fenses of Oahu, but not without the and loss of a number of the men who bedo

given their lives to aviationger; Jdsil We who today are enjoying the scenic, beauty of the boulevards and parke of it Hickam Field should silently, payatribian ute to those flyers who have passed and on - to those men in honor of whom the following avenues have been commemoratied: กระสา อาโรง W Localdos

Fox Boulevard

- 1980 11980s lst Lieut. Robert R. Fox Cornet Avenue
- Private Herman J. Cornet Boguet Boulevard
- quet Boulevard Ist Lieut. Ulric L. Boquet and 1921*
- Manzelman Circle 1st Lieut. Earle H. Manzelman 16 1921.

Compary? Les

1922*

- Vickers Avemue Staff Sgt. Vernon Vickers intrado bus **Owens** Street
- Sergeant Ross Owens
- Julian Avenue
- 1st Lieut, Rupert Julian 30 303 1925 Monthan Street 1924*
- lst Lieut. Oscar Monthan
- Moore Street Electric Moore College ed in es, re Brandt Park
- 1st Lieut. Howard C. Brandt shoul 19259 10_8160 Catlett Street
- 2nd Lieut. Carter Catlett and 1925# .seruin Wyatt Park
- 2 mc (1925* lst Lieut. John W. Wyatt Porter Avenue
- Technical Sgt. Aaron A. Porters 1925 No stopil Williams Park
- lst Lieut. Charles L. Williams v 1927 Worthington Avenue 1st Lieut. Robert S. Worthington 1937*
- our nerer inc Signer Boulevard
- Captain John W. Signer - 6 I 763 **1987** telenis ya Kuntz Avenue
- 1st Lieut. Clyde A. Kuntz adaráb 1925. Stars modil Works Park
- 2nd Lieut. Maurice M. Works as alsoo terbury Circle Atterbury Circle
- 2nd Lieut. Ivan M. Atterburyh of 1950 V-804312116.9nT -6-

Mills Baulevard	
Staff Sergeant Ralph O. Mills	1930 *
Scott Circle	
2nd Lieut, William J. Scott	1931**
Baker(Street	
Sad Light. George C. Baker Wilson Street	1931**
Wilson, Street	
Private 1st Cl. Hicks G. Wilson	1932*
Beard Avenue	
lst Lieut, William G. Beard	1936*
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**Wheeler Field

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COOPERATIVE MISSIONS WITH ANTI-AIRCRAFT

Air Corps units in the Hawaiian Department are offered excellent opportunities for cooperative missions with antiairoraft units due to the numbers, size, proximity and strength of the latter units as well as their requirements on the Air Corps for training.

Cooperative missions, including day-light tracking and firing on towed tar-gets, are conducted throughout the year. In addition to these regular cooperative missions, the 31st Bombardment Squadron has just completed special tests with the 64th Coast Artillery, (AA). In conduct-ing these tests, three B-18 airplanes were used. One of the airplanes was accumed with muffled engines and night equipped with muffled engines and night camouflage paint, the second with night camouflage paint only, and the third was standard airplane with neither muffled engines nor camouflage paint. A series of tests were devised, the purpose being to determine the effective-mess of the muffled engines and camou-flage paint. Several Air Corps officers visited the anti-aircraft installations and observed the tests. ----000---

*OFFICERS OF GROUND ARMS STUDY AIR CORPS TACTICS.

During the week of March 26th, several Mitchel Field officers were busily engaged in explaining Air Corps tactics, equipment methods, etc., to twelve officers of the ground arms who had assembled at the Post for an Air-Ground contact course.

tan area came by automobile, while those from more distant stations were ferried by airplane. Bad weather interfered considerably and resulted in several officers missing the first part of the * course and also caused cancellation of

some of the flying which had been sched-wled to demonstrate Air Corps methods. The first half of the week was devoted

to work with Observation units, and the ground officers reported that a great deal of valuable information was obtain ed which it is expected will result in smoother operation of the cooperative missions which are scheduled later in the year with the 97th Observation Squadron

The latter part of the week was occu-pied with Base and GHQ Air Force mat-ters and included conferences on Bombardment, Attack and Pursuit Aviation. The B-15 Bomber was flown up from Langley Field by Major Caleb V. Haynes, Air Corps, in order to give the ground officers a view of the latest Bombard-They were also taken ment equipment. on a bombing mission in the B-18 airplanes by the 9th Bombardment Group, during the course of which they had an excellent opportunity to observe prac-tice bombs being dropped on a target. The week's work was concluded with a

night mission, during which the ground officers had an opportunity to ascertain for themselves how much could be learned of ground activities by Observation Aviation at night. In view of the fact that most of the officers had not heretofore flown at night, this mission was probably one of the most popular features of the course. The officers taking the course all had more than fifteen years' service to their credit and many ware aligible

to their credit and many were eligible for General Staff duty, in view of which every effort was made to avoid details and to give a broad general picture of the Air Corps and its acti-vities. Both Air and Ground officers received a great deal of benefit from the course, and several of the ground officers stated that it was the most interesting course that they had ever attended

The following named officers attended the course:

Major Chauncey A. Gillette, 9th Coast Artillery, Fort Banks, Mass. Major Arthur H. Rogers, 18th Infantry,

- Major Arthur H. Rogers, 18th Infantry, Fort Hamilton, New York.
 Major Harold D. Wooley, 28th Infantry, Fort Niagara, New York.
 Captain John R. McGinness, 5th Infant-ry, Fort Williams, Maine.
 Captain Clarence P. Townseley, 5th Field Artillery, Madison Bks., N.Y.
 Captain Numa A. Watson, 1st Tank Co., Miller Field, N. Y.
 Captain Francis H. Falkner, 1st En-gingers. Fort Dupont. Delaware.
- gineers, Fort Dupont, Delaware. Captain Fred J. Woods, 52nd Coast Ar-tillery, Fort Hancock, N.J.
- Captain Maurice E. Jennings, C.W.S.,
- Fort Hamilton, New York. Captain Samuel M. Lamsing, 16th In-fantry, Fort Jay, New York. Captain Lester J. Tacey, 7th Field Artillery, Fort Ethan Allen, Vt. Captain John Mesick, 25th Field Ar-
- tillery, Madison Barracks, N.Y.

V-8043, A.C.

Selfridge Field: Army Day at this field was observed in a very elaborate manner, and people from all over the State of Michigan and parts of Ohio visited the field. Although no accurate official count could be made, the crowd was estimated at about 15,000 by Major Benjamin B. Cassiday, Air Corps, Base Intelligence Officer. The field was opened to the public at

8:00 a.m., and at first only a few cars drove in, but a little later on in the drove in, morning the traffic became so thick that it was a problem finding sufficient park-

ing space. The entire morning was given to the display of airplanes and equipment in hangars 3 and 4. At all times from about 9:30 a.m. until the flying activi-ties started, a steady stream of people poured in and out of the hangars.

The recruiting office at Detroit Mich., sent representatives to assist local personnel in answering questions regarding enlistment and passing out re-cruiting pamphlets. Personnel were also on hand to give information concerning Flying Cadet appointments. A great deal of interest was shown by the public as a

whole in each subject. At 12:00 noon, Major Benjamin B. Cassiday, acting for Colonel Henry B. Clagatt, Air Corps, Base Commander, who at that time was in Cleveland, Ohio, greeted the people and delivered a speech on Army Day and the history of Selfridge Field.

At 1:30 p.m., the First Pursuit Group took off for aerial formations, these terminating with an aerial review. An exhibition of parachute dropping with dummies was put on, starting at 2:00 o'clock. Half an hour later, the 1st Pursuit Group again took off for a final aerial review.

Barracks No. 3, of the Base Headquar-ters and 3rd Air Base Squadron, was open for public inspection during the day, except for the period of the noon meal. The crowd began to depart at 4:00 p.m.,

and at 5:15 most of the people had left Traffic was a problem throughthe post. out the day. There were no traffic accidents, however, and the personnel as-signed to directing it performed their duties in a most efficient manner.

The Post Exchange erected small hot dog stands here and there around the field, and the personnel thereof were hard put at times to keep a sufficient supply of hot dogs and bread on hand.

11 though the day was cold, everyone appeared to be having a fine time, and it is believed that Army Day has brought a new and better understanding between the public and Selfridge Field.

As tending to shed further light on Army Day observance at Selfridge Field, the Correspondent of the 27th Purguit

Squadron submitted the foldenting report Selfridge Field contributed an memor rable celebration to this year's Army Day. In spite of forecasted rain and snow, the threatening weather privileg ed the planned activities to be demon-strated to a huge crowd of approximate ly 20,000 civilian spectators Army Day was by no means another day for Selfridge Field. Each organization participated in the day's program either in the air or on the ground, Ex hibits were to be seen in the Base Hangar, giving the public a complete story of how the Air Corps is operated and maintained. Seven different types of tactical airplanes were on display, ranging in size from the PackAir the B-18. Certain airplanes on display were provided with wooden scaffold ty stands, which privileged elderly geopl to view the cockpit and controlavage modern aircraft. An officerivas presmodern aircraft. An officer was pres-ent with each airplane on display ex-plaining its tactical value and answer ing questions. Other exhibits include Armament, Communications, Hospitali Parachutes, Instruments, Engines / Fky-ing Clothing and Oxygen Equipments Bot lunches were available in the Base Har gar.

Throughout the day, music was provided through the Public Address System. In this manner also the spectatorsomer guided to the various exhibits and announcement was made from time to time as to the time and place of verious de monstrations. $2\pi 2c$

The day's activities were climared | a 24-ship aerial exercise, led by Captain Dixon M. Allison, Air Corps; Commanding Officer of the 17th Purmit Squadron. Twelve of the 24 planes we Squadron. Twelve of the 24 planes we from the 27th Pursuit Squadron, and the remaining 12 from the 17th Pursuit Squadron. Following the spectacular take-off, Captain Allison maneuvered the 24 planes through various forms-tions, revealing the precision and flexibility of the pilots of the First Pursuit Group in flying modern equip-ment. Perhaps the most spectacular phase of the air work was the Lufberry Circle, followed by a rat sace, which was best described by one spectatory to wit: "The sky is being torn asinden by man and metal."

Following the formation flying, the planes of the 27th Pursuit Squadron; led by Captains Israel and Woodborry made a simulated diving attack on a B-10 Bombardment plane, thus demonstra ing a combat exercise with Paramitev versus Bombardment. During the actus attack, two dummy parachutes were re-leased from the Bombing place, withing

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Jaonb Furents

Colorado National Guard: 1097Re3429th Observation Squadron, Colorado National Guard, Denver, participatour An Army Day celebrations on April 6th

Airplance, led by Captain John K. Niseley, Airplance, led by Captain John K. Niseley, Air Corps Instructor. This flight was part of a larger formation made up by the Denver Branch of the Air Corps Tech-Mical School.

house was observed at the Municipal Air-3.2. porty and the air-minded citizens of Denver were afforded the opportunity to insport the aircraft on the flying line. be Following the formation flying, Captain a Wissley flew Major General William K.

Wersdon, Commanding General of the 24th Cavalry Division, to Kansas City, Kanses.

Schapphall Field, Fort Riley, Kansas; Siges an observance of Army Day, the lat Ob-servation Squadron of Marshall Field, -DortaRiley, Kansas, sent a flight of -O-47Alss to visit nearby cities. The -Sermation passed in review at R.O.T.C. -Compassion st Wichita University, Wichlie Kansas, and Kansas University, Vat Lawrence, Kansas. Newspaper repre--mopassengers on the trip.

- the Defense Day Dinner speech at Louis-ville on April 6th, and ever since the Adr Corps personnel in these parts have been pardonably strutting. And our non-Air Corps friends not only seem to forgive us but think it appropriate and properr Not a day has passed that someone that not gone out of his way to tell us me how he enjoyed the General's talk. and brin

Kelly Field, Texas: ToPlass for the observance of Army Day contemplated a number of interesting exents aspecially arranged by Colonel Frank D. Lackland, the Commandant, for tathe entertainment and inspection of the -5,000 or more visitors expected on the eisdrome that day. To Major George M. V.Pelmar, dir Corps, Executive Officer of the Air Oorps Advanced Flying School, midelegated the task of coordinating While routine flying by practically eal, the 185 students now at Kelly Field

Playing all of the 168 airplanes in commission an afternoon program - an "Open STHOMACH affair, was arranged for the con-ventence and benefit of those who had

drome:

Pursuit, flying three and six-ship jormations, to perform accuracy maneuvers, as well as conduct instruction on instrument or "blind" flying, using BT-8, P-12 and BT-281 airplanes.

Observation Section to perform simi-lated artillery adjustment problems, engage in instrument flying, and recon-naissance and photographic missions, using 0-25, 0-38 and BT-2B1 airplanes. Attack and Bombardment Sections to perform missions similar to that of the Pursuit Section, using A-17, B-18 and BT-2B1 airplanes.

Arrangements were made for displaying on the hangar line west of the Post Operations Office, for the inspection of visitors, one of each type of air-plane used at Kelly Field, such as Ob-servation, Bombardment, Attack, Pursuit, Instrument and Cargo airplanes The Instrument and Cargo airplanes. The Miniature Range, located in the white concrete building on the east end of the hangar line and used in the instruction of Observation students in Artillery Adjustment, was to be open for

inspection by the public. In Hangar No. 12 was scheduled a de-monstration on the Link Trainer, a minature plane used in the training of student pilots in instrument or "blind" flying, beacon orientation, and beam

As the final event of the day, from As the final event of the day, from 1st Lieut. John H. As the final event of the day, from 4:15 to 4:30 p.m., 1st Lieut. John H. Bundy, Air Corps, instructor in the Pursuit Section, was scheduled to make a blind landing on Kelly Field in an instrument training plane. Specially qualified personnel were selected to announce and describe all

events over a public address system. Military police were detailed to handle traffic and direct visitors to the various events, activities and installations, and qualified personnel station-ed at strategic locations to disseminate information of interest to the public.

San Antonio Air Depot:

This Depot joined in celebrating Army Day, April 6th, by holding open house for visitors all day. The very large number of visitors who were interested in viewing the operations of the Depot, In viewing the operations of the perce, particularly the Engineering Shops, was exceedingly gratifying and rather unex-pected, in view of the very interesting special programs and exhibits of more popular appeal held at the other Army stations in this vicinity.

Among the visitors, the Depot was delighted to welcome Douglas Corrigan, the noted transcontinental flyer, who was then on a visit to San Antonio, and who stated that he greatly enjoyed his trip through the engineering shops, as he had been an airplane mechanic for eleve years. The personnel of the Depot were quite as much interested in Mr. Corrigan as he appeared to be in the Depot. since he was bent buck signing Depot, since he was kept busy signing autograph after autograph.

V-8043, A.C.

THE WEATHER MEN By Frivate Nathan E. Smith, Air Corps 1st Weather Squadron, March Field, Calif. They're never off duty, Their days never end: Chasing Old Deme Nature Right into her den, And they'll tell you exactly Which way she will bend. Who are they? You guessed who -The Weather Mon. It's midnight to seven, And seven to four, Four to midnight, And again as before. A service for Pilots Nigh perfect in score; Using thermometers, berometers, And instruments galore. Pressures and temperatures, Convergence and bars, Are placed on maps At ungodly hours, To show Pilot's routes On their flight 'neath stars, In order to miss Nature's lofty spars. But behind it all. With your feet like lead. With recordings all made You're off to bed; From the way you feel You're sure you're dead. (There are a lot of things Best left unsaid). When inspections are over You're in the red For dust ever there -But nothing is said Of the meals you've missed Just to be in bed, To rest your bones And your aching head. And then - there's your Buddy, Your very best friend, Transferred somewhere, Never seen again; And that furlough - postponed Til God knows when. You swear, "I'll buy out If it happens again!" But after all - it's the Army And not the men. For a soldier will growl Often, now and then; But in an outfit like this, With the C. O. as their friend. They're mighty proud to say - we're The Weather Men.

EIGHTH PURSUIT GROUP ACTIVITIES

Headquarters and Headquarters Squadron: The arrival of Spring with the attendant excellent flying weather has been a stimulus to the activity of this organization. The final acquisition of eleven P-364's has enabled Headquarters Flight to take to the air with a vengeance. In fact, according to some of the tactical squadrons, the sky is practically covered with Headquarters ships in strange formations and attitudes of flight.

Like everyone else, the personnel of this: outfit are all atwitter over the mysterious possibilities of "E" day. The clouds of the rumor preceding the coming expansion are causing a slight overcast in this area.

36th Pursuit Squadron:

The Fleet's in!!! - Nobody's quite sure yet how this is going to affect the 36th Sundfon, but at least it will give the officers and men a chance to look over battle wagons and find out some things of interest about our sister branch of the national defense. The four aircraft carriers anchored out in the bay should come in for their share of being stared at - if, as the News Letter Correspondent puts it - "they let us get on board."

Lieuts. Wallace, Wells and Sakowski returned to the Squadron from what was virtually a detached service status while they were attending the school operated by the Eighth Pursuit Group to aid Air Reserve officers in preparing themselves to take the examination for permanent commissions in the Air Corps under the provisions of the Thomason Act. The examinations are all over, and now comes the wetching and waiting. The entire organization wishes these officers the best of luck on the outcome of their exams.

35th Pursuit Squadron:

The 35th Squadron is operating very efficiently under its new set-up, which consists of two flights - ''A'' and ''B''. Both flights are composed of nine planes. Another unit, the Engineering Flight, is more of a miscellaneou character, and it supplies the ''A'' and ''B'' Flights with planes to replace those which me be out of commission.

Referring to "A" and "B" Flights, the News Letter Correspondent states: "We will not get ourselves into a lot of trouble by saying which flight is more efficient, but we will say that as a whole these two flights are har to beat, whether it be flying or what have you."

The pilots in the 35th are very much interested in getting to the top of the Ladder. Seven officers took the examination for a com mission in the Regular Army, nemely, Lieuts. Leonard C. Lydon, Homer M. Truitt, Don Coupland, George B. Greene, David L. Lewis, Edwin M. Ramage and Gilbert L. Meyers. The Squadron wishes them the best of luck and hopes that they will make the grade.

With the signing by the President on April 26th of the Army Appropriation Act (H.R. 4630), the Henorable Louis Johnson, Assistant Secretary of War, announced the following day the award of contracts for 571 airplanes and their equipment under the authority of that Act. The purchase of these planes aggregates a total of \$50,000,000, including the requirements of engines and various accessory equipment needed for the complete airplanes. Loomediately after the President had affixed his signature, Mr. Johnson clos--ad contracts amounting to \$19,535,320, as follows:

(1) Heavy four-engined Bombardment airplanes, type B-24, from the Consoli-

airplanes, type B-24, from the Consoli-dated Aircraft Corporation, San Diego, (2) Pursuit airplanes, single-engined, type R-40, from the Curtiss Aeroplane Division of Curtiss Wright Corporation, New York, N.Y., totaling \$12,872,398. (B): Pursuit Interceptor airplanes, two-engined, type YP-38, from the Lockheed

engined, type IP-38, from the Lockheed - Aircraft Corporation, Burbank, Calif, for a total of \$2,180,728. (4) Pursuit Interceptor airplanes, - single-engined, type XP-39, from the - Ball Aircraft Corporation, Buffalo,N.Y., totaling \$1,073,445. - (5) Photographic airplanes, type F-2, from the Beech Aircraft Corporation, Wichlts, Kansas, totaling \$528,749.

The remainder of the above \$50,000,000 will be used by the government to pur-chase from the manufacturers quantity lots of engines, propellers, instruments, accessories, etc. The equipment procuraccessories, etc. The equipment procur-ed in these quantity orders is furnished by the government to the airplane con-tractors to be incorporated into complete airplanes. A saving in the cost of the complete airplane to the governor the complete airplane to the govern-ment is thereby effected, and the pro-duction of airplanes by the manufactur-ers is facilitated. The contracts will soon be announced. In addition, approximately \$19,000,000 will be expended within the next few days in the procurement of Attack Bom-bers. This design competition at the

This design competition at the Army Experimental Station, Wright Field, Dayton, Ohio, has been completed and is being evaluated.

A portion of the total expenditures "Involved will be met from regular fiscal year 1939 appropriations available for "that purpose."

.etu The War Department plans required to pat into effect the provisions of the Act were initiated as early as last November, and were complete at the time the President affixed his signature to the Act. Anticipating that these funds would be available by this Spring, the War De-partment had directed the preparation of . . data and contracts, so that if such an

Act became a law the Army would be ready to purchase without delay the latest and most effective fighting aircraft, with necessary engines, instru-ments, and equipment to operate them.

ments, and equipment to operate them. In discussing the contracts already let, Mr. Johnson stated that the suc-cess of the four-engined Bombardment airplanes heretofore developed is well known. They fly at speeds in excess of 250 miles per hour, carry 5 machine guns, a crew of 6 to 9 men, and have very long range. All members of the crew can freely exchange stations, and reliefs can be arranged for long missions. From the point of view of maintenance, ruggedness of structure and national defense requirements, the four-engined Bomber meets a specific need in Army aviation.

The Consolidated Aircraft Corporation has had considerable experience in the manufacture of large planes. It fur-nished the U.S. Navy with its seaplanes which made a mass flight from Norfolk, Va., to San Diego, Calif., in 1935, and from San Diego to Hawaii in 1937.

The single-engined Pursuit type is exemplified in the Air Corps by the XP-40 type, developed by the Curtiss Company. The P-40 differs from its predecessors which are in use now prin-cipally in the fact that it is powered with the Allison liquid-cooled engine. This engine has a built-in blower type of supercharger. This plane will de-velop speeds considerably in excess of 300 miles per hour. The P-40 is an internally-braced monoplane of all-metal construction, except for the control surfaces, which are fabric covered. The The landing gear is retractable into the wing. Two machine guns are provided, and oxygen equipment is standard for operation at extremely high altitudes

The interceptor Pursuit is a recently developed type designed to intercept and attack enemy aircraft, particularly heavily armored Bombers. These planes are powered with Allison engines and have a tricycle type landing gear; which improves the landing characteristics. istics. They develop speeds of consid-erably over 350 miles per hour.

The Beech photographic airplane being procured by the Army is an all-metal 3-place, 2-engined, low-wing monoplane, and is designed to carry two aerial mapping cameras in tandem. It is espe-cially built for use for rapid and ac-curate mapping of large areas and has therefore been so designed that the maximum possible visibility is afforded the photographic observer and the pilot. It is also able to use the relatively small airdromes which so frequently must be used when mapping the mountainous sections of our country. (Continued on Page 12).

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V-8043. A.C.

Colonel Charles A. Lindbergh, Air Re-serve, reported to the Chief of the Air Corps on April 19th for a period of ac-tive duty, and for several days spent practically his entire time in conference with various officers of the War Department and of civilian research activities, one of the most important of which was the conference held on April 20th at the National Advisory Committee for Aeronautics.

Colonel Lindbergh left Washington on the morning of April 22nd in an Army P-36 Pursuit airplane, following the completion of his preliminary work incident to his survey of aeronautical research facilities of the nation available to the Army Air Corps. The fact that he has had a unique opportunity to observe the progress of aeronautical de-velopment both in this country and abroad prompted the War Department to take advantage of his knowledge in mak-ing a study of the research activities of the United States which are available to the Army Air Corps

There are in the United States at the present time some 25 to 30 separate organizations and activities engaged in aeronautical research. Of this number, but one, the Army experimental station at Wright Field, Dayton, Ohio, is di-rectly under the control of the Army Air Due to the close cooperation and Corps. coordination existing among these activities, any discoveries or any improve-ments made along aeronautical lines become immediately available to Army en-Colonel Lindbergh probably gineers. visited all these activities whose fa-cilities are available to the Army Air Corps. These consist not only of the Army Air Corps experimental station at Wright Field, the National Advisory Committee for Aeronautics, the National Bureau of Standards of the Department of Commerce and other purely governmental experimental and research establishments, but also the plants of the various aero-nautical experimental departments of those manufacturers in the United States which maintain such research establish-ments. Several colleges in the United States also carry on aeronautical re-search along specialized lines and will be included in Colonel Lindbergh's survey.

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Majors John M. Clark, Roland C.W. Blessley and Arthur Thomas, Air Corps, who have held temporary rank, were pro-moted to the permanent rank of Major in the Air Corps, effective April 1, 1939.

Captain Jack Greer, Air Corps, Fort Riley, Kansas, is retired from active service by reason of disability incident thereto, on April 30, 1939.

OFFICERS DETAILED TO ARMY WAR COLLEGE

Under special orders of the War De-partment, recently issued, the follow-ing-named Air Corps officers are detailed for duty as students in the Visio 1939-1940 course at the Army War Colub lege, Fort Humphreys, D.C.: Lieut. Colonel Howard C. Davidson and Major Charles Y. Banfill, from the Office of the Chief of the Air Corpsp Washington, D.C. Lieut. Colonel Robert L. Walsh, now on duty as a student at the Army Indus-trial College, Washington, D.C. Lieut. Colonel Floyd E. Galloway, from Bolling Field, D.C.

New Contracts for Equipment (From P.11)

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The funds required to cover the cost of planes in the contracts mentioned are only part of that necessary to car-ry out the Expansion Program. Engines, instruments, auxiliary power plantsque, aircraft radio equipment, machine gins, ammunition, bombs, etc., mustialscebe provided. Funds to permit the enligtment of additional mechanics, flying to cadets, etc., are also provided. The purchase of other types of aircraft for training, cargo, etc., is contemplated when the anticipated additional funds for the complete expansion program are made available on July 1st.

War Department plans for the distri-bution of the \$250,000,000 remaining of the \$300,000,000 recommended by the President for the expansion of the Army Air Corps have been made and will be submitted to Congress at an early date. The present appropriation, including as it does \$50,000,000 of this \$300,000;~ 000, provides the necessary money to start the Army Air Corps well on its way to the achievement of the 5,000 Army Air Corps planes authorized by a Congress for the Army Air Corps.

The expenditure of the total of 14 \$300,000,000 for the expansion program will take into account basic air defense requirements in addition to aircraft, and will cover the procurementof personnel, air bases, armament, equipment, engines, housing for person-nel and other items necessary to the creation of an air force.

Steps are being taken to insure that the provision for more personnel, their training, including pilots and mechan-ics and other flight and ground crew members, the preparation of bases and the acquisition of other items will go forward on a balanced basis with the production of aircraft.

Colonel John H. Howard, Air Corps, having been found by an Army Retiring Board incapacitated for active service on account of disability incident there to is retired from active service on April 30, 1939. V-8043, A.C.

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5.0 100. FIRST FURSUIT GROUP ACTIVITIES	To Mitchel Field, N.Y .: Captain
And flight of the 17th Pursuit Squad-	Joseph Smith. To Randolph Field, Texas: Captain
ron is now participating in aerial gun-	Claire Stroh.
nery under the direction of 2nd Lieut. James G. Guthrie, Air Corps, at Camp	To East St. Louis, Ill.; Captain Leonard H. Rodieck.
Skeel, Oscoda, Mich. Those pilots who did most meet the requirements of gunnery	000
at figlin field, Valparaiso, Fla., are now included in this present gunnery	WHITE POINT
practice.	MAXWELL FIELD RECREATION CENTER
To recomply with Chemical Warfare train-	VALPARAISO, FLORIDA
ing, the lst Pursuit Group recently com- pleted a gas chamber. "We are all wait-	Weekly Rates on Cottages
ing to 'test hop' this new chamber, "says the News Letter Correspondent, "but when	\$ 8.00 per week - 2 room cottage
it comes time to do so that will be ano-	\$10.00 per week - 3 room cottage \$ 9.00 per week - 3 rooms in lodge
	\$ 9.00 per week - 3 rooms in lodge \$ 7.00 per week - 2 rooms in lodge \$14.00 per week - 5 rooms 2 baths in
Sincet the 27th of March, the 1st Pur- subsauroup has been receiving on an aver-	lodge \$ 4.00 per week - Auto trailer space
age of one new P-36C a day. Ferry pikets, of course, are wondering if their	
home isling the air between Buffalo and Saifridge Field or here at Selfridge.	<u>One-Half Week Rates</u>
Nevertheless, they are proud to be sport- ingianew Curtiss P-36C and, declares	$1 \oplus 5.00$ per week - a room cottage
these mechanics to	\$ 4.50 per week - 3 rooms in lodge \$ 3.50 per week - 2 rooms in lodge
whom the planes are assigned are so provide of their new planes that they stay	A maximum of four days applies to the above.
ingtaldunight to groom them. Ask the 29th: Squadron; they ought to know about	
ats Preter of	Deily Rates
-trifty-three Air Corps Reserve officers	\$1.75 per day - 2 room cottage \$2.50 per day - 3 room cottage \$1.75 per day - 2 rooms in lodge
were scheduled to start school on Monday, April 24th, in order to prepare for the	\$1.75 per day - 2 rooms in lodge \$2.50 per day - 3 rooms in lodge
final mamination on June 1, 1939.	Mess Rates
e Officers of the 94th Pursuit Squadron	\$9.00 per week per person
eral texting much interest in the plotting exercises which are being held in the	\$4.50 per week for children seven years
Airy Command Section. Valuable training is weing received with these "mock" in-	of age and under.
terception problems and through the en- deavors being made to "cross" each side	Daily Mess Rates
up. to Entry	\$1.50 per person \$1.00 for children seven years of age
A AN	and under \$.50 per meal
ASSIGNMENT OF GRADUATES OF THE COMMAND AND GENERAL STAFF SCHOOL.	Address all communications to the
Just completion of their present	Secretary, Maxwell Field Officers'
course of instruction at the Command and General Staff School at Fort Leavenworth,	Club, Maxwell Field, Alabama.
Kansas, the following-named Air Corps officers are assigned to stations, as	Major Lowell H. Smith, Air Corps, who
10110WB:	for the past four years has been on
<u>Tor the Panama Canal Department:</u> Lieut. Golonel Adlai H. Gilkeson and Major	duty as Chief of the Inspection Divi- sion, Office of the Chief of the Air
Edwin J. House. To the Hawaijan Department: Majors	Corps, Washington, D.C., has been as- signed to duty at Inglewood, Calif., as
Edwin B. Bobzien and Albert F. Hegenber- ger.	Air Corps District Representative, Western Procurement District.
To Wright Field, Ohio: Major John F.	Major Sem L. Ellis is relieved from
- Schlatter.	duty as Instructor, Command and General Staff School, Ft. Leavenworth, Kans.,an
nc sylving i vice on	assigned to Atlanta, Ga., for duty with
.0£	the Organized Reserves, 4th Corps Area. 3- V-8043, A.C.

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Pursuit planes of the 18th Pursuit Group, under the command of Lieut. Colonel William E. Lynd, Air Corps, taxied out on Wheeler Field on the morn-ing of March 25th and took off on an inter-island flight, with Hilo, Hawaii,

as the destination. The 26th Attack Squadron led the Group formation, with the 19th Pursuit Squad-ron in a left echelon of elements on their left flank, and the 6th Pursuit their left flank, and the oth Fursult Squadron in a right echelon of elements on their right flank. A Headquarters Flight, consisting of three P-26A air-planes, two B-12A airplanes and one OA-8 airplane, led the formation. After climbing to 8,000 feet, the for-mation immediately headed for the Island of Molokai which is separated from the

of Molokai, which is separated from the Island of Oahu by the Kaiwi Channel. "In a few minutes," reports the News Letter Correspondent, "we were flying over Laau Point, which is the western tip of Molokai. We crossed this narrow tip of the shoe string island and found our "In the shoe string island and found our-selves over the Kaloahi Channel that separates the Island of Molokai from the small Island of Lanai. We kept this beautiful green spot of land on our right as we approached the Island of Maui, which is the second largest island of the Hawaiian Group. On Maui we saw our first snow, high on the mountain of Haleakala (10,025 feet above sea level). This white cap made the rest of the green islands seem enchanted and unreal. After leaving Maui we found ourselves

over the biggest and roughest channel of them all, Alenuihaha Channel, which separates Maui from the big Island of Hawaii.

As we approached this beautiful island we could see the famous Mauna Loa Moun-

tain. This gigantic mass of lava and volcanic ash is one of the few active volcances in the world today. When we were directly over the north-ern tip of Hawaii, Upolu Point, the group formation broke up into individual Boundron formation and proceeded to an squadron formation, and proceeded to an

individual landing at South Cape. As we proceeded down the southeast side of this beautiful island, we were treated to a sight that can be found nowhere else in the world. On our right was the boundless expanse of the blue Pacific, and on the left was a range of towering green cliffs. The tops of the towering green cliffs. The tops of the cliffs were hidden in the clouds and the sides were covered with a thick mat of

tropical plants of every description, penetrated only by numerous waterfalls. Far ahead and to our left we could see the top of the extinct volcano, Puu O Keo Keo, and the black roads in the green landscape that were caused by the lava flow of 1907. As we drew nearer to this blackened mass we could see more clearly the great damage done by the

last eruption, as there were huge areas with no sign of vegetation. In a few minutes we rounded this desolate expanse and saw the green pastures of South Cape and the runways of Morse Field. We landed there to eat lunch Field. and to refuel our ships. At 1425 we took off for Hilo and, as

we advanced up the east side of this immense island, we saw the mountains give way to cattle ranches, pineapple and cane fields. In the distance we could see Hilo Harbor. Before we realized it, we were touching our wheels on the paved runway at Hilo Airport, where we staked down our airplanes and prepared for rest at the

Kilauea Military Camp. On Monday, March 27th, we took off from Hilo Airport and, at 8,000 feet, formed the group formation for an un-eventful trip back to the Island of Oahu and Wheeler Field." ------

INCREASING INTEREST IN SELFRIDGE FIELD

Whatever the cause, the general pub-lic in the vicinity of Selfridge Field, Mt. Clemens, Mich., is becoming vitally more interested in that field, as indicated by the hundreds of persons vis-

iting it each Sunday. Since Army Day, each Sunday afternoon has seen the ramps black with people. and parking space on the main roads is at a premium. The roads adjacent to the field are also crowded with parked cars.

Although on Sundays the only flying activities are confined to arrivals and departures of transient aircraft and some miscellaneous flying, the public has evinced a great interest in viewing the airplanes parked on the flying line. On week days, there are groups of high school and college students, also aeronautical and flying clubs, visiting the field. The number of young men inquiring about flying training and Air Corps enlistments points to the fact that for them it is more than idle curiosity which brings them to Selfridge Field. There are ample guards and guides on duty at all times to safeguard and assist the public. ---000----

A group of 51 students of the San Antonio Vocational and Technical School made a tour through the Engineering Shops of the San Antonio Air Depot at Duncan Field, Texas, on April 14th. The young men expressed great interest in viewing the processes of aeronautical mechanics.

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nautics to the flying personnel in the Regu Guard, and others connected with aviation. 	is to distribute information on aero- ular Army, Reserve Corps, National M ADVANCED FLYING SCHOOL Air Corps. One officer declined to make such application. It is expected that the four Filipin students listed on the roster will re- ceive orders upon graduation assigning them to tactical units of the Regular Army Air Corps for additional instruc- tion pending commencement of courses of instruction which they will pursue at the Air Corps Technical Schools at Chanute and Lowry Fields, following which they will return to their native Fhilippines. The Flying Cadets of the class will be commissioned second lieutenants in the Air Corps Reserve and ordered on their initial extended active duty for
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9:05 a.m. Graduating class taxi on the field. 9:10 a.m. Take-off. 9:30 a.m. Aerial Review. 9:45 a.m. Training airplanes on display in front of Operations Office. 10:30 a.m. Graduating class arrives at Theater. 10:45 a.m. Graduation Exercises at Post Theater. 10:45 a.m. Graduation Exercises at Post Mater. 10:45 a.m. Graduation Exercises at Post Theater. 10:45 a.m. Graduation Exercises at Post Theater. 10:45 a.m. Graduation Exercises at Post the Air Corps Training Conter. Address by Colonel Herbert A. White, U.S. Army, Hetired. Presentation of Diplomas by Colonel White. Benediction by Chaplain Griffin. The students who are expected to gradu- ate with the present class are listed in the roster which is given hereinafter. All stations are requested to consult this roster as to specialized training received by such of the students as may be assigned thereat to preclude the ne- cessity of numerous telegraphic inqui. Fies as to type of specialized training received by Regular Army and Reserve officers assigned the various Air Corps stations. The asterisk proceeding a Flying Cadet's name indicates that he has made application for appointment as a second lieutenant in the Regular Army Air Corps. Three of the four Regular Army offi-	a peried of approximately ten days at Kelly Field, pending receipt of permai- ent Masignment orders. It may be interesting to note that of the 157 Flying Cadets in this class 90 (or 57%) are college graduates, holding degrees in the various arts a sciences from colleges and universiti in the entire nation. Almost all had ROTC training prior to being appointed as a Flying Cadet, as attested by the fact that 64 (or 40%) Flying Cadets in the class already hold commissions in five arms of the Officers Reserve Corps, as follows: Infantry 2 lst Lieuts. and 25 2nd Lieuts. Field Artillery 8 2nd Lieuts. Coast Artillery 8 2nd Lieuts. Coast Artillery 8 2nd Lieuts. Corps of 5 2nd Lieuts. Corps of 5 2nd Lieuts. Engineers These commissions will be automatic- ally vacated upon acceptance by the Flying Cadets of their appointments as second ligutenants, Air Corps Reserve. Several of these Cadets also hold cer- tificates of capacity for promotion to the grade of first lieutenant or cap- tain in their respective branches of the Officers Reserve Corps. With the recent announcement of the examination to be held throughout the country for the appointment of second lieutenants in the Air Corps, Regular

isks, as previously mentioned, have made application to compete in that examination. All of these young hopefuls have high aspirations of passing these examinations successfully and being one of the fortunate 300 or more candidates who will be commissioned in the Regular Army on or about July 15, 1939.

will be commissioned in the Regular Army on or about July 15, 1939. The Kelly Field examining board consists of Colonel Eugene A. Lohman, the Assistant Commandant of the Advanced Flying School; Major Albert B. Pitts, Director of Ground Training; Captain Delmar T. Spivey, Operations Officer of the Bombardment Section, all Air Corps; and Captain Clyde L. Brothers, Medical Corps, Flight Surgeon. The preminary examinations will be completed by May 15th, and the final examinations June 7th. It is believed that the Kelly Field examining board is beyond doubt handling the largest number of candidates in any Army Post, State or Corps Area; and all in all, what with graduations, active duty assignments of the newly commissioned Reserve officers, Regular Army examinations, reassignments of graduates to new stations, and a new class of approximately 190 students reporting to Kelly Field for training on June 1, 1939, many busy days are ahead for the Army's famous Air Corps Advanced Flying School¹.

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ROSTER OF PROSPECTIVE GRADUATES. CLASS 39-B

Specializing in Attack Aviation Foreign Students

3rd Lieut. Godofredo Mariano Juliano,

Philippine Army, Reserve.

Flying Cadets

El Reno, Okla. *Anthis, Rollen Henry Bay City, Mich. *Ballard, Norman Luellen 3 Dixon, Ill. Houston, Texas *Barthelmess, Karl Theodore *Beck, George Donald *Bratton, Leslie Raymond *Brooke, Lawrence M. Denver, Colo. Randolph Field, Texas *Carlson, Francis Bernard 8 *Carlton, William Clayton Ossining, N.Y. Minden, La. Alta, Iowa *Clark, Donald Leonard 6 New Castle, Del. Clarksburg, W.Va. *Cook, Bailey Cavenaugh *Cunningham, Joseph A. 2 *Curry, Jack Harold 2 Rogers, Ark. San Antonio, Texas *Dahlberg, Charles William Danley, James Ramey West Los Angeles, Calif. *Evanoff, Alexander G. 2 Belle Plains, Iowa Detroit, Mich. *Evans, Robert Chester 4 Lincoln, Nebr. *Franks, Perry LeRoy Nogales, Ariz. Dodge City, Kans. *Frazier, Robert Mark Goetz, Albert John Houston, Texas Arlington, Mass. *Gregory, Charles Edward Houston, Texas *Higgins, Edward Wm., Jr. Arlington, Mass. *Hubbard, Harry Vaughn Hayward, Calif. *Kittel, Robert Stewart, Colorado Springs, Colo. Riverside, Ill. Southbury, Conn. *Kuhl, Philip John 2 Laborde, Fred Nestor MacPhee, Angus C.B. 2 Los Angeles, Calif. Vancouver, Wash. Anoka, Minn. Martin, Maurice Leslie McNelly, Fred Wright *Newton, Dorr Ellsworth, Jr. Malvern, Pa. *Northemer, Kenneth Walter *O'Connor, Robert Goodwin Fresno, Calif. Northampton, Mass. Portage, Wis. Houston, Texas Bertha, Minn. *Pike, Harry MacC. *Rector, Walter Stokes *Rehmann, Orville Herman 2 *Riddle, Semuel Stuart, Jr. Ryan, Clair Edmund *Sems, Burton Kresge Birmingham, Ala. Springfield, Minn. Culver, Kans. Savoie, Wm. Frank 2 Chicago, Ill. *Schurter, Orie Olin 2 Tarrant, Yancey Smith Burlington, Okla. Waco, Texas *Thornquest, Wm. L., Jr. Redlands, Calif. *Vosper, Stanley R., Jr. 2 Akron, Ohio Watkins, Tarleton H. AberdeenProving Gds., Md.

Menerd, Texe *Wheless, Hewitt T. 1 Specializing in Bombardment Aviation izing in Bomparament Jexe Orego 1st Lt. James Baird Buck, Inf. 2nd Lt. Jack Alban Gibbs, C.E. Flying Cadets · 111 North Los Angeles, Calif *Alder, Glen M. 2 Eugene, Ore Beard, Robert Wallace Boulder, Colo Boyd, Wm. Ellsworth Venice, Salif West Orange, N.J *Brown, Don C.P. Brown, Paul Douglas Florence, S.C *Bussey, Carver T. Florence, S. Wilmington, Del Pasadona, Celif Furdell, Ckla Vernos, Texa Winfield, Rana Georgetown, S. West Lafayette, Inf Winter Garden, Fla Buckhanon, W.Va Milweidse, Va *Carpenter, Randall H. 7 *Carter, John Henry *Chadwell, Geo. Theodore 6 Cox, Ray Lawrence *Cranston, George E. *DuRant, Francis Hill 2 *Emrick, Paul Stanley 5 *Ezzard, Richard F. <u>6</u> *Fitzwater, John Timothy *Hahn, Delbert Henry Milweidee, Wir Fort Belvoir, Ve Ridgefield Park, N. Basard, K Osage City, Kan <u>5</u> Lexington, Ve Dobbs Ferry, N. Cedar Rapids, Io Decker, In *Hendrix, Wm. Murray 8 *Henry, John Elwood I *Holt, James Wn., Jr. 2 *Itz, Milford Felix 7 Jeffrey, Thomas S., Jr. 6 Jones, Jack Carey 1 Maney, John Randolph •Miller, Samuel Hudson •Morse, Raymond S. 6 Myer, Glen Anthony Decker, In Fort Sill, Okla Cupertino, Cali: Bearden, Tem St. Paul, Min *Pratt, Carlos Conrad 2 *Preston, Joseph James 7 Milbank, S. Tucson, Ari Northempton, Mas Reeve, Ralph Amos 2 Rogers, George Wendell 4 Rozwenc, George Stephen Chevy Chase, M Providence, R. Portland, Or *Simpson, John Gilliland 5 *Smith, Pinkham 6 *Spieth, Harry Edwin, Jr. Mintonville, K Hannoni, In Rozana, K Delaware, Oh *Tarter, Jerome *Van de Lester, John R. Whitaker, Narce Wilson, Frederick G. Specializing in Observation Aviation. Regular Army Officers and Cold* 2nd Lt. John Thomas Shields, Cav. Ilio." La V-8061, A.C.

	*Meng, Lewis Bruno 7 Avondale Estates, Ga.
Ci Observation Aviation, Regular Army Officers	
and Lt, Win, Swinton Steele, Inf. S.C.	Munsenmeyer, Wilmer Walter Kent, Ohic
Foreign Students	*Norris, Robert Parks Banks, Ala.
3rd Lt. Ruperto Bayron Luzon Philippine Army	*Ort, Rudolph King Wichita Falls, Texas
3rd Lt. Victor H'Yongco Dizon Philippine Army	"Reed, Wm. Benjemin 6 South Bend, Ind.
Roserve	*Richmond, Luther Henry, North Wilbraham, Mass. *Riley, Harrie Dean Chicago, Ill.
Flying Cadets	*Riley, Harrie Dean Chicago, Ill. *Rosasco, Henry Peter Washington, D.C.
"Allan, Charles Oran, Jr. 2 Panama City, Fla.	"Salmela, Oliver Reino East Weymouth, Mass.
Barham, James Carlton Houston, Texas	Seymour, Rudolph Romulus Cary, N.C.
Boaz, Wm. Nelson, Jr. Lexington, Ky.	*Slocumb, Charles Dewey, Jr. 2 Goldsboro, N.C.
Chandler, Charles G., Jr. Sen Antonio, Texas Cole, Nester Evan 2 Florence, S.D.	Sprankle, Kenneth Wayne 6 West Lafayette, Ind.
*Dech, Keith Wesley 7 Minneepolis, Minn.	*Stewart, Everett Wilson 2 Manhattan, Kans.
Devine, John Irvine, Jr. Philadelphia, Pa.	*Terhune, Chas. Houston, Jr. Indianapolis, Ind.
Respett, Relph Monroe Ottamo, Ohio	Pripton, James Baird 8 University, Ala. Tokarz, Clemence Paul Port Richmond, Va.
Folts, John Lloyd 2 Herkimar, N.Y.	*Wheeler, Ansel James 2 Genesco, N.Y.
"Habberstad, Edward Clair, BloomingPrairie, Minn.	Wood, Paul Davis Fairmont, W.Va.
Jones, James Dalton Saresota, Fla.	*Wood, Semuel Gordon 4 Washington, D.C.
Kinnaird, Eugene F., Jr. Lexington, Ky.	
*Luker, James Wester Porterville, Calif. ** ** ** ****************************	Recapitulation
Regar Jerry Dentler Los Angeles, Calif.	
Pancake, Frank Robbins 6 Staunton, Va.	Reg. Army Foreign Flying
Parker, Frank R., Jr. 4 Old Greenwich, Conn.	Section Officers Officers Cadets Total
Ragland, Richard Milner Handley, Texas	Attack 0 1 44 45
Wilkins, John C. 6 Corvallis, Ore.	Bomb. 2 0 38 40
Williams, Adriel Newton Shelbyville, Ky.	Observation 2 2 20 24
Specializing in Pursuit Aviation	Pursuit 0 1 55 56 Total 4 4 157 165
.ols restreet Foreign Students	Total 4 4 157 165
2 2d Lt. Bienvenido Exequiel Ferrer, Philippine	
Army.	Notes
S	The underscored numeral following the
• 1 P	names of Flying Cadets listed above indicates
Barnick, Foland John 2 Max, N.D. Bayeler, Arnold Welter Fort Lauderdale, Fla.	a Reserve commission, according to the follow-
Bowen, Mn. Joseph Alvin Oak Park, Ill.	ing key:
Bowen, Mn. Sebastian Huntington, W. Va.	1 - First Lieutenant, Infantry Reserve
Cate, Albert Murray 2 Plainfield, Vt.	2 - Second Lieutenant, Infantry Reserve
Cherry, Mn. Terrell, Jr. Abilene, Texas	3 - First Lieutenant, Cavalry Reserve
Convey, Ralph Francis Socorro, N.M.	4 - Second Lieutenant, Cavalry Reserve
Corv. Albert Arnold Oak Park, Ill.	5 - First Lieutenant, Field Artillery Reserve
*Darling, Henry Bosworth, Jr. 2 Lexington, Va. Devie, Allyn Taylor Los Angeles, Calif.	6 - Second Lieutenent, Field Artillery
Dusard, Leo Francois, Jr. Kirkwood, Mo.	Reserve
Thomas Wyatt Patrick Goldsboro, N.C.	7 - Second Lieutenant, Coast Artillery
Fisch, Ted Bernard Milwaukie, Ore.	Reserve
Gilbert, Wm. Frank, Jr. Lyman, S.C.	8 - Second Lieutenant, Corps of Engineers
Gilchrist, Wm. David 6 Auburn, Ala.	Reserve
Gordon, Michael Jacob 6 Chicago, Ill.	000
Gorman, Paul Joseph Detroit, Mich. Green, Franklyn Thomas Fort Logan, Colo.	EMERGENCY LEAP INJURES STUDENT OFFICER
Grieger, Harvey Emil <u>6</u> Wanatah, Ind.	THE REAL THE THE OTHER STOTICT OF TOUR
Grossetta, Anthony Vincent Tucson, Ariz.	Lieut. Edward W. Jacunski, a graduate of the
Harker, Ward W. Detroit, Mich.	Military Academy in June, 1938, was injured
Hester, John Kenton 6 Peoria, Ill.	during an emergency parachute jump from a
Hornsby, Thomas Wm. 7 Columbia, S.C.	spinning BT-9 airplane, near Randolph Field,
Hubbard, Thomas Harvey San Diego, Calif.	Texas, on April 17th. Witnesses declare that
Jackson, Thomas Walter Ames, Iowa Welling Joseph Anthony Westmille III	Lieut. Jacunski started the spin at about
Kelly, Joseph Anthony Westville, Ill. Koepke, Fred Vinton 6 Lakoille, Ill.	5,000 feet, finally resorting to his parachute
Lakoille, Ill. Lakoille, Ill. Lakoille, Ill.	when the spin reached 1,500 feet. Severe leg injuries were received by the student officer,
Gor Libbery, Harry Gilbert, Jr. Mobile, Ala.	possibly when he was struck by the wing as he
Lichter, Carl Jerome 7 St. Paul, Minn.	attempted to clear the plane.
Lognis, Donald Eugene 8 Chicago, Ill.	
MacDonald, Charles Menry Baton Rouge, La.	Major Clayton L. Bissell, Air Corps, now a
South Beni, Ind.	student at the Naval War College, Newport, R. I.,
McCafferty, Guy Franklin 4 Fort Bliss, Texas	has been assigned to duty in Washington, D.C.,
SI McMillan, George Bray Winter Garden, Fla.	as a member of the War Department General Staff
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The Assistant Secretary of War, the Hon. Louis Johnson, announced on April 30th the delivery of the first of three BC-2 Basic Combat airplanes by North American Aviation, Inc., Inglewood, Calif., to the Army Air Corps at Wright Field, Dayton, Ohio. This is a single-engined low-wing

monoplane, powered with a single-row Pratt & Whitney engine, driving a three-bladed propeller. The crew consists of

pilot and gunner-observer. The approximate wing span is 43 feet, length 23 feet. The wings are of all-metal construction, and the fuselage of welded tubular steel, fabric covered. The armament comprises two machine guns, one fixed, firing forward, and one flex-ible, mounted in the rear cockpit. The basic combat type is a training

plane which has been made necessary by the high performance of modern combat airplanes and is used as a step up be-tween the Basic Trainer which the Flying Cadets use at Randolph Field and the combat planes with which tactical units are provided. A Basic Combat plane is provided with all of the various instru-ments, controls and other "gadgets" which the pilot is required to use on modern combat planes, and is at the same time small and much cheaper to build and maintain than combat aircraft. In this way a student has an opportunity to receive instruction in proper manipulation. and utilization of all of the equipment of a modern airplane while flying one that costs from one-third to one-half as much.

A FLYING FAMILY

According to the News Letter Corres-pondent of the 120th Observation Squadron, Colorado National Guard, aviation can boast of an unusual family among its adherents

Announcing that word had been received that Harold Montee, one of the famous Montee flying family and a former member of the 120th Squadron, resigned as aero-nautical inspector for the Civil Aeronautics Authority in its Kansas City of-fices to become branch manager in the Chicago headquarters of Aero Insurance Underwriters, the Correspondent goes on to say that Harold Montee's older bro-ther, Kenneth, was a war-time instructor in flying who, after thousands of hours of hazardous instruction flying and barnstorming after the war, died of scarlet fever in 1926.

In 1919, however, Kenneth had taught his two brothers, Harold (17) and Ralph. (18) to fly. Among them the three bro-thers also taught their father to fly, and at the age of 60 he acquired a pri-vate pilot's license which he kept up

until his seventieth birthday, six years ago

Harold Montee was the first passenger transport pilot in Southern California, flying from Los Angeles to the Imperial Valley in 1921. He and his brothers were early operators of the Mercury Flying Service at Clover Field, Santa Monica, Calif., of which William C. de Mille was President. They did much of the "stunt" flying for motion pictures at that time. -----

COLORADO NATIONAL GUARD AIRMEN MAKE

"CROSS-COUNTRY" TO BOISE, IDAHO. During the week-end, April 22-23, the 120th Observation Squadron, Colorado National Guard, performed a successful and interesting cross-country flight to Boise, Idaho, for the primary purpose of inspecting the camp and airport facili-

ties at that city in connection with the summer training of this organization, which will be in camp there from June 10th to 24th.

The flight of four 0-47's, with Major F.W. Bonfils, Commanding Officer, lead-ing, comprised among its personnel Brigadier General H.H. Richardson, the Adjutant General of Colorado, and Cap-tain R.L. Qualls, State Quartermaster. The Squadron members consisted of Gap-tern S.W. Graceway lat Liquin House The Squadron members consisted of dap-tain S.W. Gregory, 1st Lieuts, Howard M. Williams, Claud Thompson, Hobert L. Ainsworth, 2nd Lieuts. T.E. Sebred E.C. Fackerell, Sergeants J. Burnell, R.A. Castetter and M.M. Empey Doug to Leaving Denver at 12:10 p.may Takes flight, upon arrival at Salt Takes City, was met by Captain John K. Wissley Salt Salt Salt Salt Salt corps Instructor, who had arrived Sal earlier from March Field, Calif, Torne five planes then proceeded to Borgan

five planes then proceeded to Batter

five planes then proceeded to Barses Idaho, and was met by Mrs. Ailshie publisher of the "Idaho State Newsis) who was hostess to the entire outfield during the course of the evening of the following morning, a meeting on the following morning, a meeting was held with General McConei, the Adjutant General of Idaho, and colonal Hummel, Corps of Engineers, also meeting bers of General McConnel's staff and the staff of the new airport under construction. Ill the members of the flight were very fa-vorably impressed with Boise and the facilities there for a summer encamp ment, and they are looking forward the Leaving Boise in the early af farmon, the return flight to Denver was mide.

the return flight to Denver was made in four hours' flying time, with an hour's stop at Salt Lake City for you vice and for additional weather infor

mation. Captain Townsend Griffiss. 4.605 is assigned to duty in the Office Pchief of the Air Corps, upon completion of instruction at A.C. Tactical Schoop. V-8061, A.C.

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WHY NOT SPECIALIZATION IN THE AIR CORPS? By Staff Sgt. Oliver E. King, Air Corps.

Ed. Note: Staff Sergeant King's personal views regarding the present meintenance system in the Air Corps and present maintenance system in the Air Corps and his recommendations on the engineering set-up for an organization are very interesting. His article is published in the Air Corps News Letter not only because of its general interest but also because it is desired to obtain the views of other <u>experienced</u> maintenance and engineering personnel in the Air Corps. It is quite likely that many will share Sergeant King's views, either as a whole or in part, while others may be in total disagree-ment with them.

ment with them. The problems of the Air Corps are many and varied, and for many of them no precedent can be found upon which to base a solution. In publishing the Air Corps News Letter it had been hoped all along to feature therein round table discussions on various Air Corps matters, fully realizing that one person's ideas would probably inspire ideas in others, there-by affording some measure of assistance in the prac-tical solution of these problems. Possibly Staff Sergeant King's article may set the wheels of round table discussions in motion, and may lead to the News Letter serving as an open forum for such dis-cussions - something which had been hoped for some time would come to pass.

time would come to pass. time would come to pass. the eighteen years' service (all of it in the Air Corps) who has at one time or and Hengar Chief, with warying degrees of success, and who has for the past seven years been Assistant to the Tech-nical Supervisor of the Middletown Air beot Control Area, in which latter ca-pacity an opportunity was afforded for observing the Air Corps system of main-tenance and, more important, for obtain-ing the Air Corps system of main-tenance and, more important, for obtain-ing the individual enlisted man's views (the men who actually maintains the air-plate) concerning the maintenance system as now constituted, I should like to be permitted, through the medium of the Air Corps News Letter, to express my views and opidions in connection with the present method of maintenance and to widgest A possible remedy. After years and years of "Grew Chiefs" it is now believed to be high time for specialization in the Air Corps. Our mirtianes, engines, instruments and ac-cessories have now reached the point where it is no longer humanly possible for "One Man" sufficiently to familiar-ize himself with them - all of them - to be able properly to inspect and maintain them in first class condition and, above all, properly to instruct others assign-ad has astistants in the proper care and maintenance of them. Today the majority of our airplanes, especially the later multi-engined types,

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Today the majority of our airplanes, especially the later multi-engined types, are equipped with many and varied kinds of instruments and mechanisms with which the individual now known as the "Crew Chief" is supposed to be familiar. But

is he? Your guess is as good as mine. In any case, he certainly has not been given sufficient instruction in any one of the various instruction in any one of the various instruments, mechanisms, gadgets, etc., to insure his being an expert and certainly, therefore, he is not believed capable of training his assistants properly. For the sake of argument let's take the B-18A type of airplane. When these airplanes - then known as the B-18's - were first given to the service one were sent to the to the service, crews were first given to the service, crews were sent to the factory to ferry them to their home stations. The "Crew Chief" was and is, we will say, usually given about <u>ten</u> <u>days</u> at the factory to familiarize him-self with an airplane costing the Gov-ernment in the neighborhood of \$100,000,00 whereas in reality if he \$100,000.00. whereas, in reality, if he could thoroughly familiarize himself could thoroughly familiarize nimself with half of it in ten months he would be of above average intelligence. Any-one has but to take a casual look at the various gadgets, instruments, me-chagisms, etc., on a B-18 airplane to realize the magnitude of the task of becoming thoroughly familiar with it. Now we come to specialization. For the sake of argument, we will ask; Why Now we come to specialization. For the sake of argument, we will ask: Why is it more necessary that we have speci-alists in Armament, Radio, photography, etc., than in airplanes, engines, in-struments, etc.? Why not let the "Crew Chief" do all of that too? Certainly, if he is capable of absorbing all of a B-18 airplane, a little thing like ar-mament, radio, photography, etc., should be "Duck Soup" for him. On the other hand, if we had specialists in air-planes, engines, instruments, carbure-V-8061, A.C.

tion, etc., in each organization, does it mechanics who could be pooled and one not sound reasonable that such special- or more of whom would be required to ists could better inspect and maintain the equipment in less time and, what is more important, better train those as-signed as assistants than could one so-called "know it all Crew Chief?"

Then we come to the old argument: Why have all these specialists in an organization when we do not ordinarily make repairs to this equipment, but simply remove it and replace it with serviceable The answer to that is: How equipment? many times has it been observed that the "Crew Chief", "Flight Chief" and "Hangar Chief" and on up and down the line have found it necessary to remove about twothirds of the accessories from an engine in order to correct some minor trouble that could have been detected by a specialist almost immediately? The amount of time spent in "tinkering" with an airof time spent in "tinkering" with an air-plane or engine by those not thoroughly familiar with it, trying to find out what is wrong with some mechanism or gadget, would be appalling if there were any way of keeping track of it. An engine specialist, given an assis-tant, can inspect and maintain an engine in one-third the time it will take a

in one-third the time it will take a "Crew Chief," and do it more thoroughly, The same holds true for the airtoo. plane, instruments, etc. In Approxi-mately six months the assistant or assistants to the engine, airplane or in-strument mechanics would themselves be capable, whereas now who knows when a "Crew Chief's" assistants can be considered capable? It all depends upon how well the "Crew Chief" himself is informed, how adept he is and how willing he is to impart what he knows to his assistants.

My idea of the ideal engineering de-partment "set-up" for an organization any organization - is this: (1) A competent engineering officer

and assistant.

(2) A competent organization inspector with as many assistants as deemed necessary, the inspector to function directly under the organization commander. (3) Competent "trouble shooters" for airplanes, engines, instruments, etc. Such men would be invaluable to an or-ganization if they knew their business. (4) A competent engineering clerk. (5) A competent crew of airplane me-

chanics with competent foremen.

(6) A competent crew of engine mechanics with competent foremen,

(7) At least three competent men on carburetors, ignition and electrical

(8) At least three competent instrument mechanics. (9) A crew of "Cleaners" with a compe-

tent foreman, whose sole mission would be to keep airplanes, engines, hangars and hangar equipment clean at all times. (10) A sufficient number of flight

or more of whom would be required to accompany, in their turn, each and every flight originating in the organization.

Give an organization such an engineering department set-up and it is per lieved the results will be astounding. Inspections will be performed in ep-proximately one-half the time now re-quired, many troubles encountered with airplanes and/or engines will be remedied without the indecision, tinkening etc., now experienced. Equipment will be cleaner and, all in all, a better, organization, insofar as engineering a concerned, should and undoubtedly will result.

result. Where are we going to get such prews for each organization? Well, your sew guess is as good as mine. the pales

RUNWAY CONSTRUCTION AT ALBROOK THEIR lyerat

Construction on the main runmay see tion at Albrook Field was completed and the runway opened to traffic on the same morning of April 17th. At the same time work was commenced on the accord phase of the new installation, consisting of a shorter, narrower strip inter-secting the main runway diagonally and a taxi strip connecting a recently oun-pleted hangar with the aprons now cing use. The main runway, which was comuse. The main runway, which was gom-menced in December, 1938, lies in Art North-South direction, and is 4400 feet long by 250 feet wide. The intersect ting runway will lie in an East whet

direction and will be 75 feet wide Albrook Field is a gigantic fill of material dredged from the Canalia with a clay top surface, and during the pro-longed and frequent soakings in the sc rainy season became badly rutted and at times, dangerous. With the use of the new runways this condition will be entirely eliminated.

Simultaneously with the opening of the runway to traffic came the use of radio control of air traffic entering and leaving the field. The new control tower is situated on top of the henger occupied by the 74th Attack Squadron and commands a full view of the flying field and of the line. Clearances for landings and take-offs must now be gotained by radio. of frieds.

low in Lowel the tors of his fright, Colonel Fred H. Coleman, Air Corps commanding the Panama Air Depot for the past two and a half years, sailed on! April 6th on the U.S. Army Transfort REPUBLIC for his new station, the whead-quarters, 3rd Corps Area, Baltimore, Md. Lieut. Colonel George E. Lowski, Mr., Air Corps, assumed command of stheware Panama Air Depot on April 7, 1939 [uco V-8061, A.C.

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Chief E	ngineer	. 1	ler o	Ir	າຍພາ	rance	U	ader	writer	

About 500 B.C., Polycrates, tyrant of ancient Greece, bragged to the great philosopher, Pythagoras, that the Gods held him in very great esteem. His luck way to good, he boasted, that if he were bo throw his ring into the Aegean Sea, it would be returned to him the next day. And to saying, Polycrates threw his ring into the water. Pythagoras expressed his doubts on the outcome. But true to the tyrant's boast, the ring was found in the belly of a fish served at his table the next day.

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was too much for wise Pythagoras. After warning the tyrant, he hurriedly left the palace fearing that a man who would so tampt the Gods must surely meet a terrible fate. So it was. Before long, Polycrates was crucified. He had tried the pathence of the Gods and lost.

Gravity is the God of Aviation. It is omnipresent. It endeavors to destroy those who do not respect it; it never relaxes; it detests carelessness, exhi--bitionism or any other form of Vanity in -the atr. Obituary notices are its fabivoride means of publicity. The great -God Gravity is aggressive, alert, quick to publish any lack of reverence. -What constitutes lack of reverence?

-What constitutes lack of reverence? Gravity answers grimly. Acrobatics at Now altitudes, steep climbs or power turned near the ground, contempt for unfavorable weather, blind flight into squelle and fog or disregard for authority. Hast year in private flying, severel hundred airplanes were severely dimaged and at least 150 people were badly hurt or lost their lives as a dineet result of carelessness, bravado or exhibitionism. Over-confident pilots tendved their luck. Vanity in the air.

Here follows a case history. This pilotte life expectancy is long overdue. Graphity may be toying with him. WHE has been flying for about three years, "He has never had his license re-

Wiked or any disciplinary action taken analyst him by the Government. He is "Four ded as a risky pilot and we know of "Warked of a beach and in the backyards of friends. He has been known to fly low in cornfields, low enough to take the tops off the corn stalks to scare his friends. He has had one bad crash and on three other occasions he has "Tracked or broken propellers while landing or taking off. When a good friend of this was killed two years ago, he said "Instrumes killed two years ago, he said "in strands accident occurred only four months ago. He was flying with a friend around a haystack seeing how close he couls come without hitting it. He missed the haystack all right but struck a tree. He was in a critical condition for several days at the local hospital. Now he is flying again, but continues to loop and bank steeply over the business district."

That report is typical of the overconfident pilot. Heedless of warnings, Vanity continues to grip his controls. Who can doubt the outcome!

Vanity in Aviation is not confined to rash pilots. Some engineers and executives could confess many errors in judgment owing to self-complacency or the desire to outdo a competitor. Such vanity has been evidenced by indifference towards uncertain factors in design like the danger of flutter, or by insufficient attention to details as the improper location of a carburetor drain, creating a fire hazard. Fatal errors have resulted from over-confidence instilled by past successes or by obstinate prejudice against new methods of design and analysis. Examples of this type of Vanity are numerous.

One well-known designer refused to provide adequate balance for the elevators of his new ship contrary to the opinion of his aerodynamics expert, because no previous designs of his had suffered from elevator flutter. Another refused to admit that his mechanics or inspectors were infallible in spite of an expensive forced landing, due to the absence of a bead around an aluminum oil line. In another instance, a high company official wanted to dazzle a nearby competitor with a new design. His normally conservative pilot performed incredible stunts close to the factory of the competitor, at noon, when all could see. Perhaps he had been instructed to show off. We shall never know because he is dead, the vic-tim of that Vanity.

Truly in the world of Aviation the meek shall inherit the earth because the earth will inherit the others. But Aviation is fortunate. The preponderance of engineers, executives and pilots yield to Gravity the respect it always deserves. Modest and humble, the men who are making Aviation the safe industry it is today show their reverence for this great God of Aviation by the utmost care and forethought in everything they plan and do. As a result, our safety record is extraordinarily good; over three million people flew last year, 99.99% of them safely. Records indicate that airline flying is already as safe as travel by automobile. Accidents have been avoided by a ready (Continued on Page 9).

NEW RANDOLPH CADET BARRACKS OCCUPIED

The first of the two new Flying Cadet barracks at Randolph Field was formally occupied by Company "C" during the af-ternoon of April 22nd. More than 100 Cadets, assigned to the new barracks, accomplished the move in less than an hour from the time the building was hour from the time the building was thrown open for occupancy.

Room assignments had been made the previous day, preliminary packing of personal belongings accomplished and, when a preliminary formation, at which last minute instructions were given, was dismissed, the actual transfer took only minuteg.

An overcrowded condition that has existed in the living quarters of the Fly-ing Cadet Detachment since the inception of the enlarged classes more than a year ago was thus partly relieved. It will not be until June, when the fourth bar-racks is completed and opened, that the situation will be completely normal.

In outward appearances, the two new buildings are identical with the two original barracks constructed in 1931. Slight modifications have been made in the interior design, in the paint trim, and in the basement of the barracks, but only a close inspection reveals this. Prized possessions were moved by the

Cadets, but none were handled with more care than the photographs of "The One and Only Girl Friend," which occupies the place of honor in the wall locker of almost every Cadet.

Living quarters for 106 men, two of them occupying each room, is the normal quota of the new barracks. Due, however, to the attrition rate of Company "C" since the start of the present class, the present occupancy is slightly less than this figure.

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PROMOTION OF FIRST LIEUTENANTS, AIR CORPS

Announcement was recently made by the War Department of the promotion of 42 First Lieutenants of the Air Corps to the grade of Captain, with rank from May 2, 1939, as follows:

Reginald F.C. Vance
William L. Lee
David D. Graves
Haywood S. Hansell, Jr.
William T. Colman
Paul M. Jacobs
Dudley D. Hale
Herbert L. Grills
Benjamin S. Kelsey
Thomas L. Mosley
Raymond L. Winn
Leonard F. Harman
Kingston E. Tibbetts
Richard H. Lee
Robert W. Stewart
Lewis R. Parker
William M. Morgan

Frank A. Armstrong, Jr. Richard I. Dugan Edwin M. Day Jack W. Wood James H. Wallace William A. Matheny John P. Kenny Lambert S. Callaway -----1 3'bloli ASSIGNMENT OF TACTICAL SCHOOL GRADUATES Vjueves In accordance with Special Orders of the War Department, recently is used, the following-named Air Corps of Story, now on duty as students at the Air Corps Tactical School, Maxwell Fishdy, Ala., are assigned to duty at the stations indicated, effective upon thect completion of their present course of n ter ston instruction, viz: Major Harvey H. Holland Gwol Captain Charles G. Pearcy Goldon Ist Lieut. Charles T. Arnettwird Ist Lieut. Charles T. Arnettwird Captain Henry R. Baxter filed Captain Arthur L. Bump, Jr. filed Captain Arthur L. Bump, Jr. filed Captain Bobert E.L. Choate Doycine Captain Frank J. Coleman foil alors Captain John P. Doyle, Jr. Soone foi Ist Lieut. John W. Persons solt film To Langley Field. Va.: Major James C. Cluck for the filed Major Clarence B. Lober additions distif 15 Major Edward M. Morris Major William B. Souza Captain Walter G. Bryte, Jra , 2100 Lowry L. Captain Walter G. Bryte, Jri Jick Captain Hugo P. Rush Jick Street Captain Milton J. Smith Johnson To Mitchel Field, N.Y.: Johnson Captain A.J. Kerwin Malone Johnson To Moffett Field, Calif.: Johnson Major Fred C. Nelson Johnson To Washington, D.C., for duty An the Office of the Chief of the Air Cornes: Lieut. Colonel Otto G. Trunk Horstin Captain Samuel R. Harris, Jr Josho Captain Glen C. Jamison To Josho Captain Walter S. Lee Jisires Captain Multer S. Lee Jisires Captain Aubrey L. Moore Jaff" To Randolph Field, Texas: Ist Lieut. Carl R. Storrie deforts Captain John N. Jones To Very Captain George W. McGregor Johnson Captain George W. McGregor Johnson Captain Allen R. Springer, Johnson Johnson Captain Allen R. Springer, for and To Wichita, Kansas: Major Ray G. Harris, for duty as Air Corps Representative at the plant of the Stearman Aircraft Company To Wright Field, Dayton, Ohio: al' Major Edmind P. Gaines Major James A. Woodruff State and Major James A. Woodruff State and Captain Carl J. Crane Captain James K. DeArmond Chinebi Captain Alfred H. Johnson Chinebi Captain Ernest K. Warburton Ser" lst Lieut. Leonard F. Harmar Schedusho lst Lieut. Leonard F. Harmar Schedusho Captain Field, Ala: State State State State Maxwell Field, Ala: State State State State Captain Schedusho Captain Schedusho Captain Ernest K. Warburton Schedusho Captain Ernest K. Warburton Schedusho Captain Field, Ala: State State State State Captain Schedusho Captain Schedusho Captain Schedusho Captain Ernest K. Warburton Schedusho Captain Field, Ala: State State State Captain Schedusho Captain Field, Alaction State State Captain Schedusho Captain Field, Alaction State State State Captain Schedusho Captain Schedus the charses of the construction of the constru To Hawaiian Department: Major Henry H. Reily. V-8061 446. 07

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LOWRY FIELD PASSES FIRST BIRTHDAY

February 28th last represented Lowry Field's First anniversary. In was on February 28, 1938, that a hundred and seventy students, who had been trans-ferred from Chanute Field, began instruc-tion at the Denver Branch of the Air "Gorpe Technical School."

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The entire population of the field a xesting was approximately 300 officers and enlisted men, while now it is close to 600. There has been a constant expansion of the field to a point where no more personnel can be accommodated until additional barracks are provided.

Lowry Field has the enviable distinc-tion of being the first Army station privileged to welcome the newly appoint-ed future Chief of Staff, General Marshall. General Arnold and General Marshall visited Lowry Field on April 27th, and an excellent steak dinner was enjoyed at the Buckhorn. Lowry Field re-grets that high pressure business con-ferences by Generals Arnold and Marshall with the officers accompanying them prevented a real despidida honoring our distinguished visitors. The latest addition to the School at

Lowry Field is the Armament Center for training in various phases of armament work. Placed at the east end of the field, it consists of a skeet range, gas chamber, camera obscura, small arms

range, machine gun laboratory and store-house for pyrotechnics. The Denver POST described these activities, as follows: "The skeet range is operated in accord-ance with the rules and regulations of the National Skeet Shooting Association. Although this is considered a 'sporting Although this is considered a 'sporting phase' of instruction in the training of armorers, it is designed to teach the value of target practice as it affects

aerial gunners. "The clay pigeon targets of the skeet range represent to the student a hostile airplane which is either attacking or being attacked. The shotgun, with its spray of bird shot, is to him a brace of flexible machine guns spraying .30 cali-ber bullets at the rate of 300 ounds or

more a minute. "Officers declare this type of shoot-ing is most valuable in teaching gunners to tlead their prey.

"In the 'gas chamber,' students are the subjects of slight 'gassing,' though not to any alarming extent, to get a chance to smell various war gases and to identify them by odor.

"Tear gas is used quite often in the chamber, principally because of its harm-less qualities. Students are taught to use their masks efficiently and learn

the characteristics of the gas. "Officers say the student who has been careless in inspecting his complete equipment for defects will be impressed to the point of not again overlooking

minor details should he fail to fit his mask correctly to the contour of his

face. "The procedure usually followed is for students to enter the building with their masks off, then for the instructor to light several capsules of tear gas. After sniffing the gas the students put on their masks hurriedly and watch its reactions before leaving If the students have not the building. used their masks satisfactorily, the gas will affect the tear glands of their eyes, causing them to cry profusely.

"The camera obscura laboratory is an enlarged version of an ordinary camera by which bombing activities can be carried on without actual use of bombs.

"Use of the camera obscura for bombing practice provides for each bombing approach a permanent record which can in bombing-flight technique. This method of preliminary training is less costly than actual bombing and at the same time eliminates hazards involved in the handling of the high explo-sives." be studied to correct common faults

"Vanity Versus Gravity" (Continued from Page 7)

willingness to recognize the operating limitations of man and airplane; by humility in the presence of uncertain-

Humility is the antidote for Vanity. Thousands of distressing accidents will occur and hundreds of people will be killed because pilots in an over-confi-dent, cocksure mood, do not pause to reflect that "Pride Goeth Before A Fall."

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CHANGES IN WEATHER OFFICERS ASSIGNMENTS

First Lieuts, Leo P. Dahl, Ivan L. Farman and Donald L. Yates, Air Corps, upon completion of their present course of instruction at the California Institute of Technology, Pasadena, Calif., tute of Technology, Pasadena, Callf., are assigned, respectively, to Langley, March and Barksdale Fields; Lieut. Dahl to duty with the 2nd Weather Squadron, relieving 1st Lieut. Torgils G. Wold; Lieut. Farman to duty with the 1st Weather Squadron, relieving 1st Lieut. Sam H. Wiseman, and Lieut. Yates to duty with the 3rd Weather Squadron, re-lieving 1st Lieut. Arthur F. Merewether. The officers thus relieved from duty

The officers thus relieved from duty with Weather Squadrons will report to the Commanding Officers of the respective stations for assignment to duty. ------

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CIVIL AERONAUTIC INSPECTORS TAKE TRAIN-ING AT PRIMARY FLYING SCHOOL.

Eight Inspectors of the Civil Aeronautics Authority reported for temporary duty at Randolph Field on May 1st for a special course on the Primary Stage, designed to familiarize them with the Air Corps system of flight training. This group is the second one to make a study of the Primary Stage work, the first group spending a two-week period at the "West Point of the Air" earlier in the year.

The eight inspectors, all of whom are Reserve officers in either the Army, Navy, Marine Corps or Coast Guard, include: Major G.A. Wiggs and Lieut. G.M. Jones, Air Reserve; 1st Lieut. F.H. Longeway, National Guard; Captain F.M. Clarke; Lieuts. (Junior Grade) Arthur C. Burns and J.O. Christian, Navy; Captain Robert E. Bake, Coast Guard, and Lieut. J.R. Cram, Marine Corps.

TWO RANDOLPH MASTER SERGEANTS HONORED

Master Sergeants Paul Kurtz, 11th Air Base Squadron, and Lester Harrison, QMC, on duty at Randolph Field, Texas, were jointly honored at a dinner in the 11th Air Base Squadron Mess Hall on April 26th. Sergeant Kurtz retired on April 30th, and will make his home in Cleveland, Ohio, Sergeant Harrison is scheduled for retirement on May 31st.

Colonel John B. Brooks, Commanding Officer of Randolph Field; Major E.B. Bayley, Commanding Officer of the 11th Air Base Squadron, and Captain Francis H. Kuhn, Commander of the Quartermaster Detachment at Randolph Field, were the speakers.

MASTER SERGEANT LEIBY APPOINTED WARRANT OFFICER.

Master Sergeant Charles C. Leiby, of the Administrative Section, Base Headquarters and 1st Air Base Squadron, Langley Field, Va., recently received notification from the War Department of his promotion to the rank of Warrant Officer, which became effective on May 1st.

Warrant Officer Leiby has been with the service in the Virginia locality for quite a number of years, having served with the 4th Coast Artillery Corps Band at Fort Monroe, Va., prior to his transfer to the Air Corps in February, 1920, in the capacity of Photographic Instructor of the Air Corps Technical School, which was then located at Langley Field. This School was transferred on June 30, 1922, to Chanute Field, Ill., and a little over a year ago to Lowry Field, Denver, Colo. After being transferred to the 22nd Photographic Section at Kelly Field, Texas, in April, 1925, and later to the Philippine Islands for a period of three years with the 6th Photo Section, Warrant Officer Leiby returned tova Langley Field in January, 1935; hereit ing his present position of Warrant Offficer in Charge of the Photographics Department of the Administrative Section. Born at Derry Church, now as partwood Hershey, Pa., Warrant Officer: Leiby attended Tech. High School at Herrisberg, Pa., prior to his enlistment for the 104th Coast Artillery Corps, Forth for Washington, Md., on October 30, 1908.

LANGLEY FIELD ENLISTED MEN ENROLLIND AT AIR CORPS TECHNICAL SCHOOL. log Mosdo Stribur gni

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Eighteen members of various organizations at Langley Field, Va., departs by air on April 24th for Chanute Heald, Rantoul, Ill., to pursue courses coll instruction at the Air Corps Tschnickl School.

The training of the enlisted man for the specialist courses in carbusction, instruments, propellers, and electrical maintenance labor, will be force for weeks' period, while a six monthstoperiod will be required for the regular subjects covering airplane mechanics, parachute rigging, radio operators and repairers.

Those who departed from Langley Nield for the May 1st Class included Staff Sergeant Stuart S. Brougher, Headquarters and Headquarters Squadron, GHQ Air Force; Sergeant Arthur R. Loftus and Private William J. Kermes, of the 49th Bombardment Squadron; Sergeant? Charles H. Powell and Corporal William C. Goldman, of the 35th Pursuit Squadron; Corporal John Bettinger and Private, Specialist 6th Class, Dermont O. Leonard, of the 20th Bombardment Squadron; Corporal George W. Loughery, Privates 1st Class Stephen Kotyo and Glenn Hite, Privates Herbert Welker and Charles E. Slingland, all of Desse Headquarters and 1st Air Bass Squadron; Private, 1st Class, Lawrence M. Stuard, 96th Bombardment Squadron; Private, 1st Class, Nelson C. Howe, Jr., Headquarters and Headquarters Squadron, 2nd Wing; Private Joseph H. Sweeney, of the 36th Pursuit Squadron; and Privates Frank Mason, Joseph R. Buchert and Cr Lawrence D. Lesh, all of the 21st Herconnaissance Squadron.

 Lieut. Colonel Raymond E. O'Neill and Major Perry Wainer, of March. Held, Calif.; Majors Edward C. Black and ab Oliver K. Robbins, of Hamilton, Field, Calif., have been relieved from dufy at those stations and assigned to dufy at the Air Corps Technical School ab Chanute Field, Rantoul, Ill, or ym bet
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"DON'T SIT IN THE CENTER OF THE COCKPIT" (A Parable from the Primary Flying School)

lo beir Sec<u>t</u>ion, Ever since Randolph Field was constiit is the Primary Flying School in - mearby airports have been a part of the training. These cross-country problems bave been carefully selected, every ef-Bladats on the more simple flights, gradually leading up to navigation missions of 150 to 200 miles. .3 The first navigation flight for the embryo pilots is to a Civil Aeronautics Authority intermediate field, known as TPawnee, 61 miles from Randolph Field. Check points on this trip are outstand ing and frequent. Half way to Pawnee is -sthestown of Floresville, situated on a heroady concrete highway. From there to broads concrete highway. From there to Bawnes it is about 30 miles as the crow -ndlies, with additional checkpoints. funon the day of the navigation prob-lem, an instructor is dispatched to the redestination about 15 minutes before the forst student pilot departs. The inand checks the Cadets in as they arrive. -Later he dispatches them at intervals for the homeward journey. a miss procedure of dispatching an infollowed recently. These extracts from blothe yousuing "correspondence" are selfexplanatory: -isudovs' ONO autic Randolph Field, Texas. April 21, 1939. ent ic ... SUBJECT: FAILURE to find Pawnee on Navimediler is gation Flight in connection -hames all with student training. ring , (TO: lst Lieut. (An Instructor....) -250 % A.C. Eck. Tou will explain by complete indemoment hereon why you failed to find Bannee on a recent navigation flight in ; connection with student training. ,2 mar 82 JOHN DOE, da£ ,stando. -- **TRATEBORE** Captain, A.C. orit Ic 2nd Ind. Randolph Field, Texas, April 24,1939. -To: John Doe, Captain, A.C., Randolph Field, Texas. 1. On being assigned to proceed to Pawnee, Texas, by the Flight Commander, to check the arrival of students, I made careful preparation for the flight. I drew the necessary map, received a weather report, and made a flight plan. The wind velocity being rather great, which allogs nervendicular to my route

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best altitude, and Floresville as my first check point. I checked the equipment in the baggage compartment and noted that everything required, such as radio extension, X-country envelope, thermos jug, and flight schedule, were ready and loaded. I was assigned to fly BT-9 #222, a plane with which I was thoroughly familiar and whose engine and instruments I knew to be in excellent condition. My passenger was Corporal....., a first class mechanic, in whom I had every confidence. 2. At 12:45 p.m., I carefully warmed the engine, checked the Form 1, and after calling the control tower by radio, I was satisfied that everything means

2. At 12:45 p.m., I carefully warmed the engine, checked the Form 1, and after calling the control tower by radio, I was satisfied that everything was in perfect order. I taxied slowly out on the flying field, being very careful to look around for other airplanes, and scanning the area above and behind me so thoroughly that my neck was fatigued as a result. On seeing that all was clear, I proceeded to take off, noting the time as 12:51 p.m. As I climbed to the desired altitude, I was especially careful to carry sufficient right rudder to counteract for torque, and to sit exactly in the center of the cockpit. At 1300' I changed to high pitch and set my course for Floresville. I arrived over Floresville 15 seconds earlier than I had calculated and noted I was slightly off course. Accordingly I changed my course to the right one quarter of a degree, and made a note of the fact that I was very comfortable and mentally serene. During the time I was not occupied with flying my plane or watching my course, I meditated on the method I could pursue to improve my work still further, and become an even greater asset to my flight, and to Basic Stage in particular. The minutes passed very rapidly and pleasantly in this fashion.

this fashion. 3. When, according to my figures, I estimated I was over Pawnee, I cut the throttle and expected to see the airport as I spiraled down. My consternation and distress were a sight worth traveling miles to see when Pawnee appeared to be nowhere in sight. I flew in larger and larger concentric circles, but all I could see were innumerable fields and groves of mesquite trees, with a tantalizing white highway winding through to the southwest. After a few unpleasant minutes of this I bore off to the east, knowing that a railroad ran somewhere in that vicinity. I selected the first town along its track dragged the station and noted the name was Tuleta. I thereupon mentally made rapid calculations and computed my course for Pawnee. I had no difficulty

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finding the airport this time, and after carefully circling and dragging the field, I landed. I was warmly greeted by the students who had preceded me and were anxiously awaiting my arrival. I refreshed myself with a drink of warm water from the thermos ing I had brought. water from the thermos jug I had brought, and proceeded with the business of checking in the remainder of the students

as they arrived. 4. I saw that I had passed squarely over Pawnee, and if my navigation had not been so perfect, or if I had not sat so exactly in the center of the cockpit, or even if I had not been so careful to correct for the torque. I would have passed enough to the right or left of Pawnee to have seen it. I then made a mental note to let a slight error creep into my flying in the future and avoid a repetition of this distressing experience.

(Signed) "An Instructor" 1st Lieut., AC. -000-----

EXPANSION PROGRAM AT LANGLEY FIELD, VA.

The Langley Field Correspondent reports that an extensive two-year expan-sion program, which will result in the addition of about 1,000 enlisted men and 300 officers to the personnel of the GHQ Air Force at Langley Field, is scheduled to get under way in the near future, according to an official announcement made at the Peninsula Airdrome.

Recruiting for enlisted men to serve as mechanics will begin at the post within a short time, and the first group of be-tween 100 and 300 officers from the Army's training station at Randolph Field, Texas, will arrive at the field in June.

Six new units will be formed from the Second Bombardment squadrons, Eighth Pursuit Group, 21st Reconnaissance Squad-ron, Base Headquarters and First Air Base Squadron. The exact nature of the new units, their official designations and the dates on which they will be or-ganized will be announced within a short time

In addition, a great deal of construction work of a temperary nature will be-gin at the post. Permanent construction may be begun during the latter part of

the expansion program. The program to begin at the airdrome will be a portion of a large-scale Army Expansion Bill, recently approved by Congress and approved by the President.

Majors Frederick F. Christine and James T. Curry, Jr., Air Corps, have been relieved from further assignment and duty at March Field, Riverside, Calif., and assigned to duty at Scott Field, Belleville, Ill., departing for their new station about August 19,1939.

JOINT EXERCISES WITH THE NAVY

The Second Bombardment Group, Lingley Field, Va., took part in a Joint Army-Navy Exercise, basing at Providence, R.I., on April 20th and 21st. The B-17's arrived at the Rhode Island State Airport latein the morning of the 20th. Late in the afternoon of the same day, all ten B-17's headed out to seavend all ten B-17's headed out to seat and the maneuvers were on. Long after dark Providence was given its first glimpse of the returning "Flying Fortressess appearing out of the eastern hase; with all running and passing lights full on. After a late but bountiful supper, Colonel Robert Olds, Commanding Officer of the Group, issued an order alerting the personnel at 4:30 a.m. the next day.

day. The order "Stations" was issued at: quickly located and constructively de-stroyed at sea with a 30-knot tail wind and good navigation expediting matters. Before noon, orders were received ade vancing by 24 hours evacuation for the home base at Langley Field. The as-sembling of equipment and supplies was accomplished with such rapidity that Colonel Olds was able to dispatch the planes on the way home within a comple Thus, on April 21st ended a of hours. brief but instructive Joint Army-Navy Exercise.

Each regularly assigned Bal? Airplane Commander in this Group has now met;) in full, the blind landing qualifica-tion requirements published by the did Chief of the Air Corps. This account plishment, believed to be the first on record for the entire tactical schedon of a Combat Group required the constant of a Combat Group, required the greater part of five weeks, with the utility B-18's carrying the load.

Flying Fortress Chuckles

After coffee and sandwiches for lunch,

upon arrival at Providence, someoue piped up: "Who's the Mess Officer?" "He took off for the city." "He'd better keep right on going, If he does come back, it had better be with a bodyguard."

In the morning, during the period of anticipation of the attack order, while the Engineer Pilots and Bombardiers were on the line ready to start all four motors upon instant notice, civilian approached Engineer Pilots and Robert A. Ping.

"What do you do on those big planes, Sonny?" he queried. Pee Wee Ping, for lack of something to say in his usual rush, replied; "You can't kid me, Son," the civilian came back, "you couldn't tose those big

bombs out of the plane." -12-

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After returning to Providence, Major C.V. Havnes climbed out of B-17 #80 and Vanoticed a civilian looking first at the -motors and then going over and scrutinising the landing gear. The Major watch-ed him for a couple of minutes, looking at him going from one wheel to another. He finally asked the gentleman: "Is there any question you would like to Bak? #S

"SbThe eivilian scratched his head and "replied: "Yes, I can't for the life of meafigure how you get the power from the diengines down to the wheels for take-offs. Joe L. R. M. -----

THORANDOLPH FIELD CORPORAL RECEIVES MEDAL Teres U

Mere than 1,800 Air Corps troops, in-cluding the Flying Cadet Battalion, paid homage to Corporal Harry A. Teague, Head-quarters Squadron, Randolph Field, on -May 5th, when they passed in review be-foreithe veteran noncommissioned officer aduring the ceremony in which he was pre-sented with the Purple Heart with Oak

Leaf Cluster, also a Silver Star Medal. Major General Walter Krueger, Command-sing Seneral of the Second Division, made the presentation.

enCorporal Teague spent 27 months oversigns during the World War, serving with sthe 26th Infantry. He was awarded the Burgle Heart in an announcement by The Adjutant General, in which the Secretary Oak Leaf Cluster be presented to Corpo-

rab Tague for having been gassed in ac-tion on June 9, 1918, while serving as a Private, Headquarters Company, 26th Infantry, and later wounded in action on October 4, 1918, while serving as bugler, "Company H, 26th Infantry. "Company H, 26th Infantry."

1916, and served with Company G, 3rd Infantry, at Del Rio, Texas, until he sailed for France with the First Divi-sion on June 14, 1917. During the 27 months overseas service. Corporal Teague participated in five major engagements -St. Miniel, Soissons, Meuse-Argonne, Cantigny and Anseuville. Colonel John B. Brooks, Commanding Of-ficer of Randolph Field, commanded the troops during the review Music was

troops during the review. Music was furnished by the 23rd Infantry, of Fort San Houston, Texas. -----

amelte The following-named Air Corps officers have been relieved from duty at their present stations and assigned to duty at Lowry Field, Denver, Cole.: Lieut. Cols. Werner B. Gates, March Field, Calif.; William D. Wheeler, Selfridge Field, Mach. Marjors James W. Hammond, Mitchel Field, N. Y.; Roy W. Camblin, Chanute Field, Ill., and Roscoe C. Wriston, "Dangle? Field, Va.

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RANDOLPH FLYING RECORDS AGAIN SHATTERED

More records were set during the month of April at the Air Corps Primary Fly-ing School at Randolph Field, Texas, when 16,299:20 hours of flying time were piled up during the thirty-day period.

This figure constitutes the largest number of hours ever flown by the number of nours ever flown by the Spring training classes and is the third largest month in the history of the School. On only two occasions has the 16,300-hour mark been passed in a single month, September, 1938, setting the all-time high of approximately 17,500 hours. According to present indications, even this figure may be surpresent during the present month of surpassed during the present month of May for, according to present plans, training activities on both Primary and Basic Stages will be completed by

and Basic Stages will be compared by May 31st. A further study of the statistics reveals that all but 2,000 hours of the over 16,000-hour figure was spent on student training activities. Basic Stage, with approximately 190 students, flew a total of 7,429:45 hours during the month of April, and the Primary Stage with an average student class of Stage, with an average student class of about 300, flew 6,858:25 hours, all for a total of 14,388:10 hours of student training during the month. With night flying, and navigation

With night flying, and navigation training, both day and night, occupying the major portion of the Basic Stage training during April, many of their BT-9's flew more than 100 hours during the month. Practically all of the War Department Training Directive for the permanent personnel of the station is also done in the BT-9's, thus helping to build up their total time. to build up their total time. ----000---

DEMONSTRATION BY 96TH BOMB. SQUADRON

Three B-17's from the 96th Bombardment Squadron, augmented by one B-17 from the 20th Bombardment Squadron, both of Langley Field, Va., took part in the demonstration for the Infantry School and the Air Corps Tactical School on April 13th, last. "There were sufficient hits on and around this target after bombing to justify our raison d'etre," declares the News Letter Correspondent, ------

The following-named Air Corps offi-cers have been relieved from duty at their present stations and assigned to duty at the Air Corps Technical School, Chanute Field, Rantoul, Ill. : Majors Arthur W. Brock, Jr., Wright Field, Ohio; Lewis A. Dayton, Maxwell Field, Alabama, and Alfred Lindeburg, Barksdale Field, La. -13-

V-8061, A.C.

GENERAL OFFICERS VISIT KELLY FIELD

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Major General Henry H. Arnold, Chief of the Air Corps, was a visitor at Kelly Field on May 1st, and was accompanied by Brigadier General George C. Marshall, Deputy Chief of Staff of the Army; Lieut Colonel Carl Speatz, Air Corps; Captain Floyd L. Parks, General Craig's Aide, and 1st Lieut. Eugene H. Beebe, Air Corps, with an enlisted crew consisting of Staff Sergeants Buzenski and Langston and Private Meade.

and Private Meade. The Chief's party arrived in a C-41 airplane at 7:50 p.m. from Tucson, Ariz., where they visited General John J. Pershing, after dedicating the Sacraments Air Depot. The Generals were Colonel Lackland's guests during their stay at Kelly Field where, in addition to looking around the airdrome of the Air Corps Advanced Flying School, they inspected the quarters construction project of the new field and observed student training. They also conferred with Major General H.J. Brees, Commanding General of the 8th Corps Area, and Colonel A.W. Robins, Commanding Officer of the Air Corps Training Center, on the following morning before taking off for Bolling Field, D.C., via Nashville, Tenn.

DROUGHT PARTIALLY BROKEN AT RANDOLPH

Randolph Field and vicinity received a much needed rain during the month of April, when .38 inch of precipitation was measured April 27th after a thunderstorm the night before. This area is far behind in its annual average of rainfall, and vegetation here is in great need of a rain. The flying field also has been sending up clouds of dust, making it disagreeable for both pilots and ground workers. Most of the month has been especially favorable for flying, with only a few flights postponed due to weather. Traces of moisture were measured several times during the month, but only on the 27th was any appreciable amount recorded.

Starting out on a program of general improvement for the entire office and the collection of data that will be of much value to the climatological records for this station, the Randolph Field Weather Office has just instituted projects in which every man on duty therein will take part. The program is under the direction of Lieut, T.S. Moorman, assistant weather officer.

Among the topics assigned for research are the construction of diurnal temperature charts, pressure variation charts, the passage of fronts, the number of days the different air masses occupied Randolph Field, isallobaric component of the wind, acceleration diagrams, and others. Such information as will be gained will be of great importance in studying weather peculiar to this area.

One interesting item is the formation of low stratus clouds in the late nig and early morning, when this region i occupied by tropical Gulf all of This one of the things which makes Toretas ing in Texas particularly tricked.

one of the things which makes Tureces ing in Texas particularly tricky of After many long months of study, fi men of the weather office at Randolph Field took the examination recently fi promotion to the grade of Staff Strgeant. During the examination which lasted three days, tests in physics an mathematics were given the first say, maps and forecasting the next? and meteorology the last day, with three hours allowed for each subject. Those taking the examination were Sergeants C.F. Miller, J.T. Treat, A.W. Threemorton and Private, 1st Class if H.P. Fredin, all of whom attended the Shir Corps Weather School at Patterson Field, Ohio, and Corporal A.J. Hagland who was graduated from the Navy Weather School at Anacostia, D.C. The Feylts of the examination have not yet been announced.

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CLARK FIELD ACTIVITIES

Work on enlarging the flying field at Clark Field, Pampanga, Fil.sofsed ing on in a big way. A company pin Engineers from Fort McKinley tookieven the job, and it is expected the presence will be completed in a couple of oni months. Several of the boys from the 28th Bombardment Squadron are milling up the hours, since the organization has to furnish so many tractor perivers

A flight of Bombardment planes flow out to greet the new Boeing Clipper re cently. According to the News Letter Correspondent, the Clipper made the old B-10's look like a flight of "peashooters."

First Lieut. Jack E. Shuck and Secon Lieut. Paul E. Todd, Air Corps: left o March 6th for a Southern Island trip, and were accompanied by Major 0. Thir Armstrong, Medical Corps; Captain R2L. Lande, 26th Cavalry (P.S.); Captain E.J. Tracy, Medical Corps, Flight Surgeon; Corporal Stanovich and Frivate, 1st Class, R. Moon, flight mechanics, and Private, 1st Class, J. King; radio operator. Stops were made at 36 bin Zamboanga, Jolo, Davao and Del Mante. The flight returned on March 10 th

The Department Inspector made difist annual visit to Clark Field on Manch 9th.

Majors Rufus B. Davidson, stationed at Barksdale Field, La., and Leon HiPost a student at the Air Corps Tactigaba School, Maxwell Field, Ala., are under orders for duty at Scott Field, Ill. -14- V-8061, A.C. The Secretary of War, the Hon. Harry a. Moddring, recently announced that the i a following civilian flying schools have been selected for the primary flying training of military flying students in vir connection with the Army Expansion Pro-STAN: τ... Spartan School of Aeronautics, Tulsa Municipal Airport, Tulsa, Okla. Santa Maria School of Flying, Hanosck Airport, Santa Maria, Calif. Dallas Aviation School and Air College, Love Field, Dallas, Texas. الشديد (Lindbergh Field, San Diego, Calif. Alabama Institute of Aeronautics, Inc., Municipal Airport, Tuscaloosa, Ala. Grand Central Flying School, Grand Central Air Terminal, Glendale, Calif. Parks Air College, Parks Airport, East St. Louis, Ill. Lincoln Airplane and Flying School, Union Air Terminal, Lincoln, Nebr. North Suburban Flying Corporation, Curtiss Airport, Glenview, Ill. This is the first time that flying training has been given to Army pilot bcandidates by other than service schools since the days when the Wright Brothers and Glenn H. Curtiss gave flying instrucomes The purpose of this innovation is to increase the output of graduates of the Lif Corps Training Center available for LTAY . Creased by reducing the length of the "present year's training to a nine months" "I course." The student will spend his Subject othree months at a civilian school three months receiving more advanced in training at Kelly Field, Texas. Except for specialized training, the nine months graduates will compare favorably with those trained under the present Lisystem: ... The new student, however, will receive his specialized training in the -- tactical squadrons. all the schools selected by the War Department, as listed above, had been previously approved by the Civil Aero-nautics Authority as competent to give advanced flying training, and they sat-isfy all War Department requirements. Each flying instructor will hold a cer-tefficate of competency from the Civil Aeronautics Authority, and each will Menchantics Authority, and each will have completed a standardization course at the Air Corps Training Center to in-sure uniform training. The civilian bechools will use primary training planes diminished by the government. One or more will supervise the ground and flying training. .III .bIU -15-

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The first class will enter the civil flying schools on July 1, 1939, followed by a class every six weeks. Candidates from civil life for ap-

pointment as Flying Cadets must be un-married male citizens of the United States, more than 20 years of age, and must not have reached their 27th birthday. The physical examination is nece sarily a very rigid one, particularly with respect to vision and the nervous The physical examination is necessystem.

Along educational lines, candidates must have completed at least two years of college work or the equivalent thereof. If evidence of this cannot be furnished, a comprehensive examination must be taken in nine subjects, includ-ing United States history, English, geography, higher algebra, plane and spherical trigonometry and elementary physics. Where satisfactory evidence of completion of the necessary college credits in a recognized college is submitted, no educational examination is required.

The pay of a Flying Cadet is \$75.00 per month. In addition, each Cadet is allowed one dollar per day for rations and is furnished quarters by the government. If no government quarters are available during the period the Cadets are attending the civilian schools list ed above, \$22.50 per month in addition will be furnished each student to permit him to rent suitable quarters, making a total of \$52.50 per month, in addition to his base pay of \$75.00. The government also furnishes necessary

flying clothing. Candidates must agree that, upon suc-cessful completion of the course of instruction as a Flying Cadet, they will, if their services are desired, serve for three years on active duty with the Regular Army Air Corps as Reserve officers, unless sooner relieved by compstent authority.

Upon the completion of the course of instruction at the Air Corps Training Center, a Flying Cadet receives his "Wings" and the rating of Airplane Pilot. Upon graduation he will be called to active duty with tactical units of the Regular Army Air Corps in the grade of Second Lieutenant, Air Reserve, with the same pay and allow-ances as an officer of this grade in the Regular Army, Upon completion of three years' active duty, he is promot-ed to First Lieutenant, in which case he may be selected, within the limits of appropriations available, for additional active duty. The graduates of these schools, after having completed one year's service as Flying Cadet and Reserve Officer combined are eligible to compete for the existing vacancies for Second Lieutenant in the Regular (Continued on Page 16), V-8061, A.C.

The Chief of the Air Corps has just recently approved a new system governing the promotion of Air Corps noncommission-ed officers to the grades of Master Ser-geant and Technical Sergeant. This is being carried out through the promulga-tion of Circular No. 35-24, Office of the Chief of the Air Corps, dated May 9, 1939, amending Paragraph 2c, Air Corps Circular 35-2, dated October 12, 1932, as follows: as follows:

2c. Seniority on Promotion List: Pending the publication of complete changes in Circular 35-2, Office of the Chief of Pendthe Air Corps, effective July 1, 1939, the names of noncommissioned officers on the respective Eligible Lists maintained in the Office of the Chief of the Air In the UILICE OF the Chief of the Air Corps for promotion to Master Sergeant and Technical Sergeant, other than the Weather Service, will be arranged so as to give equal credit for service, as of December 31, 1938, as follows: One point, or fractions thereof, for each year of service in the U.S. Army; one point or fractions thereof for

one point, or fractions thereof, for each year of service in present grade, or higher rank or grade; one point, or fractions thereof, for each year of service in the U.S. Army Air Corps, or DEML (Air Corps).

In addition, each noncommissioned officer recommended for promotion will be given an efficiency rating by his Commanding Officer, such as "Superior", "Excellent", "Very Satisfactory" or "Satisfactory."

The following additional points will be accorded each noncommissioned offi-cer recommended for promotion to Mas-ter Sergeant or Technical Sergeant:

Superior. Excellent	•	•	•	•	•	•	•	20 15	
Very satis	١fe	1C	toi	ГУ				10	
Satisfacto	r	7	٠	٠	•	•	٠	5	

For Technical Sergeant Samuel Mills has had 25 years, 10 months and 3 days Army service; 11 years, 1 month and 15 days in his present grade; 1 year as second lieutenant; 1 year as 1st Sergeant; 18 years in the Air Corps, and is rated as Superior by his Commanding Officer.

To determine his place on the Master Sergeant Eligible List, he will be accorded credit, as follows:

				Additional credit for Efficiency	
Total Army Service Service in grade,	25	10	3		
or higher Service in the	13	1	15		
Air Corps Efficiency Rating "Superior"	18	0	0	20	
Total Grand Total.	56 76	11 11	18 18	20	

Another example: Staff Sergeant John Wilson has a total of 21 years, 2 months service in the Army; 16 years, 6 months and 10 days service in his present grade; 20 years, 5 months and 5 days service in the Air Corps.

To determine his place on the Tech-nical Sergeant Eligible List, he will be accorded credit, as follows:

				Additional eredit for Efficiency
Total Army Service Service in grade.or	21	2	0	
higher	16	6	10	
Service in the Air Corps	20	5	5	
Efficiency Rat- ing 'Very		J	5	
Satisfactory	۱ ۱			10
Total	58	1	15	10
Grand Total	68	1	15	

In order that the Office, Chief of the Air Corps may have sufficient data available to complete the number of credits for efficiency, station commanders will immediately furnish the manders will immediately furnish the Chief of the Air Corps with the proper efficiency rating accorded each noncom-missioned officer recommended for pro-motion on the 1939 promotion lists for Master Sergeant and Technical Sergeant, Air Corps, and will also furnish such efficiency ratings at the proper time for those noncommissioned officers who for those noncommissioned officers who will be recommended for promotion be-tween November 15, 1939, and December 15, 1939, for the respective 1940 pro-motion lists.

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<u>Augmented Training of Pilots</u> (Continued from Page 15).

Army Air Corps.

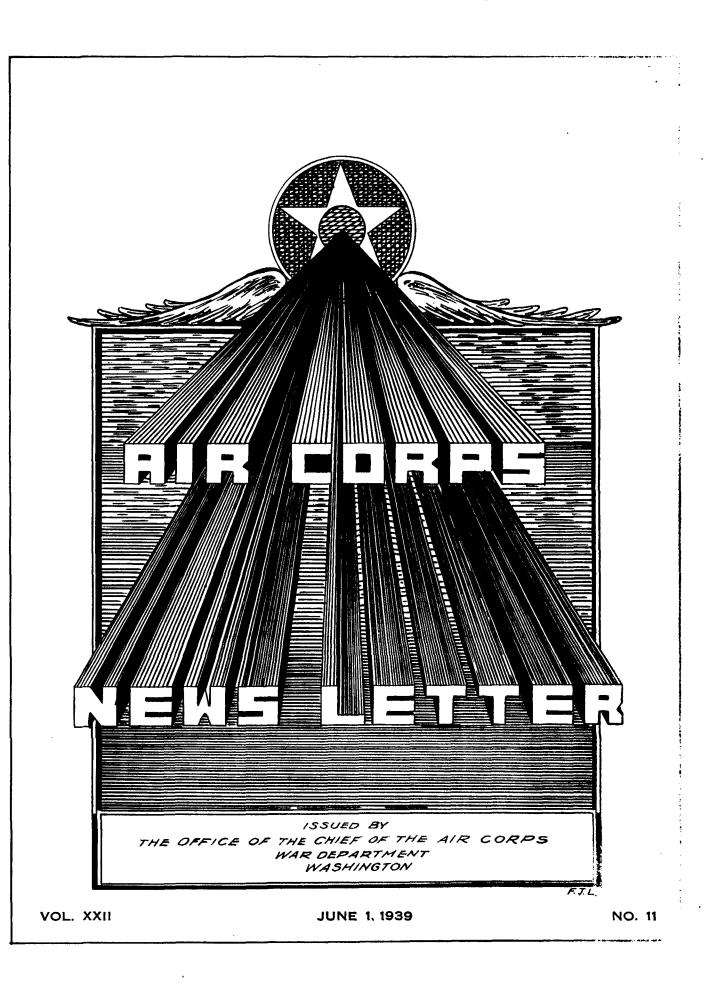
-16-

When a Reserve Officer has completed three years' active duty, he receives in addition to his regular pay and al-lowances, a bonus of \$500., except when he is relieved for the purpose of accepting a commission in the Regular Army. -----

The 15th Observation Squadron, sta-tioned at Scott Field, Belleville, Ill., is busy laying plans to move into the field for two weeks at Wisconsin Rapids Wisconsin, to cooperate with the man-euvers to be held there from May 22nd to June 7th,

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VOL, XXII A I	CORPS	NEWS L	LETTER	NO. 11
Information Division Air Corps	June 1	, 1939	Munitions Washingt	

The chief purpose of this publication is to distribute information on aero-nautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation. ____000____

> TEN-MAN PNEUMATIC LIFE RAFT By the Materiel Division Correspondent

Recently under test at Wright Field, Dayton, Ohio, has been a pneumatic life raft, developed for use with large airplanes of the Bombardment type when en-gaged in over-water flight. When ingaged in over-water flight. When in-flated and placed in the water, the raft is capable of seating ten men, while a life line attached to the raft and extending around it will support ten additional persons.

The supporting structure of this raft consists of a latex rubber bladder with a heavy rubberized duck outer cover. The bottom is of heavy rubberized duck fabric, and contains three pneumatic in-flatable seats. The latex tubes are equipped with values and manifolds for CO2 inflation. About five pounds of the CO2 is required for the inflation oper-ation. The cylinders containing the CO2 are attached to the raft and fed direct-ly into the tubes. The weight of the most when inflated is encoding table 115 raft when inflated is approximately 115 pounds. When folded, the raft can be rolled into a bundle approximating three cubic feet of space.

Four two-section metal cars make propelling of the raft possible in the water for a considerable distance. Four army canteens of water, a quantity of emergency rations, emergency signal kit with six red flares, and a pyrotechnic pistol form additional equipment. A11 of these provisions are encased in water-proof holders. In order to repair possible punctures

while afloat, an emergency pump is pro-vided. With a repair kit, this makes it possible to keep the raft afloat in-definitely. When inflated, the buoyandefinitely. When inflated, the buoya cy is such that the raft is virtually nonsinkable. It will float even if turned upside down on the water, and has been found to be considerably more stable and more easily handled than the smaller sizes.

In the Bombardment airplanes, the rafts will be stowed in a position within easy reach of personnel.

Experimental testing at Wright Field having been completed, an order was placed for a service test quantity.

FOUR-BLADE PROPELLER INSTALLED ON PURSUIT PLANE

The first 4-blade controllable propeller to be constructed in this country, ler to be constructed in this country, so far as is known, was recently install-ed for experimental purposes on the U.S. Army Air Corps P-36 (Curtiss) Pursuit airplane at Wright Field, Dayton, Ohio. This is the same airplane recently used for the installation and experimental testing of dual, oppositely rotating propellers mounted in close tandem. The special object of these experi-

The special object of these experiments will be to obtain comparative performance data on the airplane when equipped with the two types mentioned above, and also when equipped with the usual constant speed 3-blade type. For a given propeller diameter, the solidity ratio of a propeller can be in-creased by adding blades. More effici-ent operation can thus be obtained for a given power and diameter at high alti-

given power and diameter at high alti-tudes, especially above 20,000 feet. The four-bladed propeller used has a Curtisselectric, constant speed hub equipped

with dural blades of standard design. The rapid increase in engine powers for small airplanes, the Pursuit types for example, necessitates an increase of effective propeller area (solidity ratio) without increase in propeller diamater. One solutionfor future design purposes, therefore, revolves about the use of propellers having four or even a greater number of blades. -000---

The following-named Air Corps officers, upon the completion of their tour of duty in the Hawaiian Department, are assigned to the following stations: Major John I. Moore and Captain Robert W. Douglass, Jr., to Mitchel Field, N.Y. Major Bernard J. Tooher to Langley Field, Va. First Lieuts. Edward S. Allee and Sory Smith to Chanute Field, Ill. Captain Frank F. Everest, Jr., to

Lowry Field, Denver, Colo, ¥-8074, A.C. -1-

GRADUATION EXERCISES OF TACTICAL SCHOOL

The tranquility and usual routine of Austin Hall was broken Friday morning, May 12, 1939, due to the graduation exercises of the 1939 Class of the Air Corps Tactical School, Maxwell Field, Ala.

After spending the preceding night at Langley Field, Va., and most of the day at Barksdale Field, La., Major General Henry H. Arnold, Chief of the Air Corps, piloting a Douglas B-18 airplane, landed at Maxwell Field on Thursday afternoon, where he was to be the baccalaureate speaker for the graduation exercises. In the evening, General Arnold attended a reception given in his honor at the Officers' Club, where the commissioned personnel of the post and their wives had the opportunity to meet him or renew their acquaintance.

Graduation exercises began at 10:00 a.m. Colonel Walter R. Weaver, Air Corps, Commanding Officer and School Commandant, who was the presiding officer, introduced General Arnold, who then delivered his address (which appears elsewhere in this issue) and awarded the diplomas to the graduates.

diplomas to the graduates. Of the 76 officers who graduated, 60 are from the Air Corps; 5, Coast Artil-lery Corps; 2, Infantry; 2, Signal Corps; 1, Chemical Warfare Service; 1, Field Artillery; 1, Cavalry, 3, Marine Corps, and 1, U.S. Navy. The following is a list of the gradu-ates in order of rank: Almond, Edward M., Infantry Kingman, Allen F., Infantry Kingman, Alien F., Inlantry <u>Majors</u> Dutton, Donald L., Coast Artillery Persons, Wilton B., Signal Corps Trunk, Otto G., Air Corps Walker, Ralph B., Air Corps Lober, Clarence B., Air Corps Vitzthum, Harry L., Signal Corps Blessley, Rowland C.W., Air Corps Holland, Harvey H., Air Corps Holland, Harvey H., Air Corps Gaines, Edmund P., Air Corps Nelson, Fred C., Air Corps Nelson, Fred C., Air Corps Norris, Edward M., Air Corps Nollison, James A., Air Corps Mollison, James A., Air Corps Mollison, James A., Air Corps Nollison, James A., Air Corps Kelly, Oakley G., Air Corps Nynch, Frederick D., Air Corps Lynch, Frederick D., Air Corps Reily, Henry H., Air Corps Reily, Henry H., Air Corps Lanagan, William M., Air Corps Lanagan, William M., Air Corps Harris, Ray G., Air Corps Williams, Randolph P., Air Corps Williams, Randolph P., Air Corps Nelton. Cyrus O., Coast Artillery Captains Shelton, Cyrus Q., Coast Artillery Corps Gerhard, Frederick W., Chemical Warfare Service Keifer, Homer W., Field Artillery Stace, Donald F., Air Corps

Rush, Hugo P., Air Corps Mudgett, Gilman C., Cavalry Griffiss, Townsend, Air Corps Smith, Milton J., Air Corps Minty, Russell J., Air Corps White, Walter C., Air Corps Jamison, Glen C., Air Corps Minty, Russell J., Air Corps Jamison, Glen C., Air Corps Pearcy, Charles G., Air Corps Nicholson, Arthur B., Coast Artillery Smith, Archibald Y., Air Corps Martin, Darwin D., Coast Artillery Bump, Arthur L., Jr., Air Corps Crane, Carl J., Air Corps Ritchie, William L., Air Corps Ritchie, William L., Air Corps Cabell, Charles P., Air Corps Cabell, Charles P., Air Corps DeArmond, James K., Air Corps DeArmond, James K., Air Corps Doyle, John P., Jr., Air Corps Baxter, Henry R., Air Corps Baxter, Henry R., Air Corps Burwell, James B., Air Corps Lee, Walter S., Air Corps McCorps Macorps B., Air Corps Burwell, James B., Air Corps Lee, Walter S., Air Corps Malone, A.J. Kerwin, Air Corps Malone, A.J. Kerwin, Air Corps Macorps Malone, A.J. Kerwin, Air Corps Malone, Marcorps Malone, A.J. Kerwin, Air Corps McGregor, George W., Air Corps Dely, Maurice F., Air Corps Deichelman, Matthew K., Coast Artille Jones, John N., Air Corps Springer, Allen R., Air Corps Coleman, Frank J., Air Corps Gibbs, David R., Air Corps Gibbs, David R., Air Corps Warburton, Ernest K., Air Corps Moore, Aubrey L., Air Corps Moore, Aubrey L., Air Corps First Lieutenants Persons, John W., Air Corps Harman, Leonard F., Air Corps Arnett, Charles T., Air Corps Straubel, Austin A., Air Corps Arnett, Charles T., Air Corps Straubel, Austin A., Air Corps Storrie, Carl R., Air Corps Navy Officer Overfield, David B., Lieutenant Marine Corps Officers Smith, Joe N., Major Jerome, Clayton C., Major Weir, Frank D., Captain In the past years the School has had a few months' recess before starting : new class, but this year the new glas

begins on June 5th - three months.ear lier than before, and as it is going matriculate approximately 100 student which is nearly 30 more than before, the School is now working under a for draft preparing material for the new class.

The following-named Air Corps officers are assigned to duty in the Offic of the Chief of the Air Corps, Washing ton, D.C.: Lieut. Colonel Robert C. Candae, from the Hawaiian Department. Colonel Clarence L. Tinker, from the National Guard Bureau, effective not later than June 30, 1939. 8-

GENERAL ARNOLD'S ADDRESS BEFORE TACTICAL SCHOOL GRADUATES

I am happy to be here this morning to extend to you my congratulations upon the successful completion of your course of instruction. To the Staff and Faculty I express my appreciation of their efforts, which have made this graduation possible. To the graduates from other than the Air Corps, may I say that it was a pleasure to have had you with us. Through association with you, we have gained a greater understanding of your problems. Your knowledge of us and our problems assures us of increased understanding by the other Arms - and such mutual understanding is essential to successful teamwork in our national defense.

To you of the Air Corps, this is a true "Commencement." You are entering upon a period that will be of intense interest to you - a period that will be vital to the Air Corps. You will be called upon for abnormal efforts, and the training you have received during the pastneight months will be of inestimable value to you and to our Corps.

value to you and to our Corps. I will give you a summary of our plans for the Proposed Air Corps Expansion. In two years our airplane strength will expand 140%, from about 2300 to a minimum of 5500. About 3300 of these will be active airplanes and of these about 2000 will be combat types. The task of production is, for the most part, on the shoulders of our aircraft industry. Our major task is to obtain, house, and train the necessary personnel. The magnitude of our training task is apparent when you consider that our officer personnel will be increased about 90% and our enlisted strength by 25,000- a 140%

Even if we had a sufficient number of qualified Reserve officers available, we could not commission them all in the Regbscular Army at one time without creating a promotion 'hump'. Our plan spreads this ficrease over ten years. About 400 will "Be commissioned this year and about 128, Bigs attrition, each year thereafter. vaçancies. Thus, early in the program we will have fewer Regulars than Reserves. As time goes on, the number of Regulars will increase and the number of Reserves will decrease, until at the end -iof ten years we should have, roughly, est the proportion of two Regulars to one -Surve: It is during the first two years that the services of experienced officers will be invaluable. During that period new units will be formed and presant organizations will be subdivided. some as many as three times. Our experienced Regular Personnel will be spread very thinly, and we will be faced by an

influx of Reserve personnel who will have to receive specialized training and be taught the multitude of other duties that the experienced squadron officer must know.

To provide the required pilot personnel, we will follow this plan: Primary training, 3 months, will be given at selected civilian schools. The ground school training during this period will be about the same as that now being given at Randolph Field. Basic training will be given at Randolph Field and advanced training at Kelly and Brooks Fields. Specialized training will be taken over by the tactical units.

There is a two-fold reason for trying this system of primary training. First it saves us the expense of enlarging our Training Center to take care of an increased demand that is temporary in nature; second, it gives us a test on a system to which we feel we will have to resort in the event of a major war, when a large number of pilote would be required. We feel that our standard of instruction can be maintained. The civilian schools have been carefully selected; their instructors have undergone an instructors.' course at the Training Center, so that the training will be standardized; and at these schools we will have our inspectors - you might well call them "stage Commanders"- who will check on the instruction and pass on all "washouts".

Our enlisted problem is also a major one. In two years we must take in 25,000 men, and of these about twothirds must be given specialized Air Corps training. We are establishing a branch of the Technical Schools at Scott Field, where the month's basic course will be given as a preliminary to certain of the courses given at Chanute and Lowry Fields, which will operate on an expanded basis. Also, we plan on using some selected civilian schools to supplement our output of airplane mechanics.

New units will be formed as equipment and personnel become available. At the conclusion of the program, we will have the following tactical organizations:

5 Heavy Bombardment Groups, 6 Medium Bombardment Groups, 2 Attack Bombardment Groups, 5 Single-Ingine Pursuit Groups, 2 Interceptor Pursuit Groups, 2 Fighter Pursuit Groups.

More than 40 new squadrons of all types will be organized during the Expansion.

In this program, we have just so much money to spend. We have to buy a certain number of airplanes. A certain number of personnel are required to operate our active airplanes and to - V-8074, A.C.

carry on our other activities. Maintenance requires its share. We have to buy bombs. We have to carry on experimental work. To do all this, we have to keep our construction costs as low as possible. Five new bases are to be constructed - one each in Alaska, Northeast United States, Southeast United States, Puerto Rico, and Panama. New stations in the United States will have but five sets of Officers and six sets of noncommissioned officers' quarters. Permanent barracks and quarters will be constructed in Alaska and Panama, but CCC type barracks will be used elsewhere, and tropical type quarters will be constructed in Puerto Rico. Hangars and technical buildings will be held to a minimum.

I have given you a brief outline of the proposed expansion program which is our immediate problem. There are two other current topics of immediate and vital interest to Air Corps officers and, indeed, to all officers in the Army, but more particularly, of course, to those of our branch. The first of these might be termed: "Changing World Conditions Which Have Necessitated Revision of Armaments." The President of the United States ably epitomized this thought when he addressed the Congress of the United States on the state of the nation, January 12, 1939, in these words:

"What needs to be emphasized is the great change which has come over conflicts between nations since the World War ended, and especially during the past 5 or 6 years.

"Therefore, it has become necessary for every American to restudy present defense against the possibilities of present offense against us.

"Military aviation is increasing today at an unprecedented and alarming rate. Increased range, increased speed, increased capacity of airplanes abroad have changed our requirements for defensive aviation."

The foregoing statements by our Com-mander-in-Chief should be pondered over by every military man.

Even the casual student of world affairs must be cognizant of the tremendous change which air armaments have brought to bear on national policy, international negotiations and current diplomacy. In his message to Congress, the President restated the Monroe Doctrine and what has been commonly called "Hemisphere De-fense". Congress is now engaged in a prospective revision of the Neutrality Act. There is ample evidence of the national interest in the military establishment in committee hearings on War Department and Naval appropriations just concluded and on the sizeable increases for the military establishments contained

in the late appropriation acts, Abroad, there is no longer any atten to hide or to evade the predominant pa which air armaments are playing in in-ternational negotiations. To demonstrate conclusively the part which Gre Britain feels that air warfare, plays i national safety, it is only necessary point to the fact that her air budget for the coming year will be more than one billion dollars, or more than that for either her Army or Navy and more than twice our own outlay for the air branches of both the Army and Navy.

The second of the prime considera-" tions which I referred to may be calle "A Recognition of Air Power and a Restudy of Its Application by Air Forces There is a probability that next year, for the first time in its history, the course at the Command and General Staf School at Leavenworth will include lec tures on Air Power and Air Forcess ver similar in scope and treatment to thos which have for some time been taught here in the Air Corps Tactical School. For a long time the terms "Air Power" and "Air Forces" were held by most mil itary men to be large words in the mouths of young Air Corps officers practicable, improbable, highly theoretical, - anathema to the old school o military thinkers. It is quite eviden now, however, that these terms "Air" Power" and "Air Force" have become gen erally accepted here and abroad

This raises one serious question which gravely concerns all of us. In our tactical tests and demonstrations, we must make certain that no deficiencies in training belie or discredit the claims we have made for the efficacy of Air Power and the accomplishment of Ai: Forces. Now that we have sold a new idea in warfare, we must make doubly sure that it is not unsold by the poor performance of our air units. During performance of our air units. During the next two-year period, our tectical units will become, in effect, training establishments, in order that the increased number of graduates of our schools may receive their specialized training. Many old squadrons will be broken up to form cadres for new units It will be difficult, therefore, if no impossible, to maintain our efficiency on the present high plane we find in the GHQ Air Force today. To overcome in part this serious situation, Thave recommended the formation here st Maxwell Field of three demonstration squar rons, which will be composed of combat crews trained up to the minute, 'and we shall rely upon these units to give the demonstrations at our special service schools and cooperate with the other arms to the end that our claims for Air Power and Air Force may be Dorne out V-8074, A.C.

in practice as they have been expounded in theory. Thave been in Army Aviation since

T have been in Army Aviation since 1911 - for over 28 years - and I can say with assurance that military aviation has reached a stature, a prospect and a status far beyond our early dreams or bur fairly recent expectations. Whoever thought in the early days that fighting planes would fly at 500 miles per hour, that Bombers would weigh thirty tons and carry five tons of bombs for eight thousand miles; that single engines would develop two thousand horsepower or that aerial cameras could make clear photographs through layers of clouds; or that instruments would be developed mak-

COOPERATIVE MISSION WITH INFANTRY

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The 26th Attack Squadron conducted a very interesting cooperative mission on April 12th with the 2d Battalion of the 35th Infantry, Schofield Barracks, T.H. Major Becker, commanding the 2d Battalion, and Ceptain G.R.Acheson, commanding the 26th Attack Squadron, personally made the plans for the mission. The problem was one of attacking, harassing, and delaying the ground troops who had to cover a short distance of open read and cross a gulch before reaching their objective. Only six airplanes were available to the squadron, so "they were divided into two flights of three each to simulate complete flights of nine airplanes. The tactics of the attack, including the use of lime water to similate chemicals, successive low-flying assaults, and feints that caused ಾಗರ riA dealoyment and delay, were highly suc-cessful, according to Major Becker; and probably were very illuminating to all nembers of the Battalion as to the capa-bilities of Attack Aviation. Exceptionally instructive to the newer pilots in the 26th Squadron, the problem gave more training in tactics and technique in one hour than could have been gleamed in many hours of study from text books on the subject.

The success of the mission and its high training value was due to the fact that both commanders personally discussed and planned its scope. "It is to be hoped", says the News Letter Correspondent, "that similar problems, which illustrate so clearly to the younger officers the capabilities and limitations of his arm, be conducted at frequent intervals."

Lieut. Colonel Harrison W. Flickinger, Alt Corps, is relieved from assignment and dity in Washington, D.C., and, for the convenience of the Government, proceed to his home to await retirement. ing possible accurate area bombardment on localities obscured by clouds or fog: that combat crews could ride in planes in the substratosphere, sealed in pressure cabins with the warmth, comfort and oxygen and pressure equivalent of normal earth level atmosphere. Yet all these things, though the nightmarish fantasies of yesterday, are the successful experiments of today and will be the mass production actualities of tomorrow. Undoubtedly we shall be called upon

or will be accomplished and we shall be called upon for great effort during the next two years, but the result will justify your effort. The President's Air Program will be accomplished and we shall have akcovered the first mile in providing this nation with an adequate Air Defense.

FRANCE FIELD VETERAN NON-COM RETIRES

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Master Sergeant George W. Edwards, 7th Reconnaissance Squadron, Air Corps, with more than thirty years of excellent service to his credit, was returned to the United States on the USAT "REPUBLIC" and sailed from the Canal Zone, to be placed on the retired list at the Army Base, Brooklyn, New York, on April 30, 1939. Sergeant Edwards' first service dates back to December 30, 1907, when he enlisted in the 64th Co., Coast Artillery After three years with this or-Corps, ganization, he reenlisted for the 122d Co., Coast Artillery Corps, a similar period. He then reenlisted in the 3d Co., U.S. Disciplinary Barracks, and served from April 11, 1914 to June 23, 1930, when he decided he wanted to be an Air Corps soldier, His career in the Air Corps started with the 20th Photo Section, A.C., then followed the 12th, 14th, and finally the 7th Reconnaissance Squadron, A.C., with which he served up to the present time. A testimonial dinner was given on April 5th by the 7th Squadron, at France Field, in honor of this veteran non-commissioned officer. Sergeant Edwards' service has been excellent all the way. His discharge cer-tificates all bear "Character,"ERCHLLENT He has been discharged as a noncommissioned officer on each and every enlistment. In the Air Corps he served in grades up to Master Sergeant, Sergeant Edwards now expects to make a World Cruise. He will visit a brother in Australia, and will then return and The record settle on the West Coast. set by this veteran noncommissioned officer is well known by his friends and members of his organization, who have the highest praise for his ability, personality and cooperative leadership. The entire organization is proud to congratulate Sergeant Edwards upon his retire-ment and wish for him much happiness and easy sailing for the rest of the way. V-8074, A.C.

ACTIVITIES OF THE 18TH PURSUIT GROUP

The work and industry of the Hawaiian honey bee was emulated lately by the 18th Pursuit Group, Wheeler Field. For two weeks during the latter part of April quarterly tests, Department alerts and technical inspections added their demands to those of routine flying, and the heretofore carefree "Peashooters"

are looking rather serious. The annual Technical Inspection was made during the first week of the month by Major Edward V. Harbeck, of the Sacramento Air Depot.

Due to the location of Wheeler Field, pilots have long been handicapped by a lack of practice on radio beam facili-ties. Fortunately, this field has recently received a new type Link Trainer, and all pilots are undergoing a course of instruction and practice on radio beam flying. The 18th Pursuit Group recently attend-ed two very educational lectures at Hickam Field on subjects vital to offi-cers on duty in Hawaii and they were

cers on duty in Hawaii, and they were given by qualified officers from the Headquarters of the Hawaiian Department. At 2340, April 17, 1939, the usual peaceful calm of Wheeler Field was shat-tered by the sound of "Call to Arms" telephone bells and alarm systems. Sleepy officers and soldiers were in-formed that they were "on alert" and or-dered to report immediately to their post of duty. The entire Hawaiian Department, exclusive of service commands on outlying islands, had been alerted. Shortly after 2400 o'clock, all units were reported present, and the recall

order was given. The fourth quarterly test for the Fiscal Year 1939 was held on April 18th. The 6th and 19th Pursuit Squadrons fired mass gunnery on three 30-foot tow tar-gets flown in formation, and the 26th Attack Squadron bombed and machinegunned designated water targets. Briga-dier General Walter H. Frank, Commanding the 18th Wing, Air Corps, accompanied by Lieut. Colonel William E. Lynd, command-ing the 18th Pursuit Group, and his staff, made an inspection of airplanes, pilots and hangars.

CONSTRUCTION OF CAMP AT MORSE FIELD

The new Control Officer of Outlying Fields, 1st Lieut. Richard T. Coiner, Jr., is constructing 26 tent frames at Morse Field, Hawaii, for future maneuv-ers. Construction is progressing rapid-

ly. Six enlisted men, under the command of Corporal Luther Thompson, all of the 17th Air Base Squadron, have been loaned for the construction of the camp. Drawing commutation of rations, the men organized their own mess and are enjoying the time spont away from goniting insies.

ATRIAL GUNNERY FOR BARKSDALE PURSUITER

For two weeks during the early part of April, the grey Louisiana dawn foun the pilots of the 77th Pursuit Squadro of Barksdale Field, La., winging their They were way to the gunnery range. enjoying open season on ground targets

enjoying open season on ground targets The News Letter Correspondent de-clares that the P-36's have proven to be an ideal platform for both the 30's and 50's. Enthusiasm among the pilots is running high in anticipation of du-plicating last year's record and keep-ing the coveted luke Trophy in their possession for the third consecutive year.

The cancellation of the annual Third Wing Maneuvers permitted the 77th Wing Maneuvers permitted the 77th Squadron to set up their aerial gunner camp at Galveston, Texas, on May 11th, and which was scheduled to continue un til June 5th, which will be the first period. The second period will extend from July 11th to July 20th. ------

GUNNERY DEMONSTRATION BY 79TH SQUADRON

The 79th Pursuit Squadron, 20th Pur-suit Group, GHQ Air Force, left Barks-dale Field, La., on the morning of April 12th to participate in the Third Wing GHQ Air Force Demonstration the following day at the Infantry School a Fort Benning, Ga.

The Squadron of 18 airplanes demonstrated mass firing attacks against silhouette targets simulating a bombar ment (flight in javelin formation. The firing formations used were a colu of flights in two-plane elements and a squadron mass with flights echeloned

down and to the rear. Six of the nine silhouette targets were destroyed by fire resulting from the use of tracer ammunition. The remaining three targets were riddled by the heavy volume of fire.

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ADVENTURES OF A PARACHUTE

Being loaned to a Cavalry officer at the Base Flight Section at Barksdale Field, Shreveport, La., for a flight this home station at Fort Bliss, Texas, parachute, upon arrival at Biggs Field, Texas, was turned over to the Supply Officer on April 5th. While awaiting transportation for its return awaiting transportation for its return to Barksdale Field, the parachute was loaned to Radioman, first class, J.A. Dinan, of the U.S. Coast Guard Detach-ment, for a flight in airplane, Type J2W1 #V-158, and was used in an emer-gency jump from this craft on April 6th, near Alpine, Texas. After 1t was retrieved and returned to Biggs Field, it was immediately forwarded to Barks-dale Field, with remarks for BarkSute (Continued on Page 8) (Continued on Page 8) .111 V-8074, A.C.

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SHETINDETH BOMBARDMENT GROUP ACTIVITIES

^{1 T}The bocelerated training program in the 5th Bombardment Group, Hickam Field, buthe Still Bombardment Group, Hickam Field Tcallender year, is showing considerable

progress. .a. On the five squadrons in the Group.

all but two have completed qualification sources in both gunnery and bombing. The remaining two squadrons will complete otheir qualification training by June -**:15th**, noi

-05-During the first four months of this year; approximately five thousand practice bombs have been dropped in conjunction with other training. A course in budeadireckoning navigation is now being completed. In addition, courses have Vrobeen given in Chemical Warfare, Recon-.maissance Aviation, Bombardment Aviation -mand Air Force. The courses have been

supplemented by several one or two-hour

briectures on subjects of vital importance to officers of the Air Corps.

Training in Combat Gunnery, accompanied by a course in skeet for all members Condit Crews is now being given attention.

From all indications, the month of May was scheduled to present a full period of activity. In addition to the routine. to be conducted by the Group on the 4th, 5 5thig 8th and 9th, and the annual Hawaiian Department Maneuvers were calculated completely to absorb the energies of the Group from the 15th to the 27th. 1. 2. 3. 1. 1.

AND ORGANIZATION IN TWO PLACES AT SAME TIME 5 548 334

nerMaen Major N.R. Laughinghouse, Air Corps, departed for his new station, March Field, Calif., on the transport AFFUHIAC, 1st Lieut. William A. Schulgen - assumed command of the 17th Air Base Schudron. In assuming command, Lieut. Schulgen became a dual squadron command-er, as part of the Base Squadron still functions at Old Luke Field as well as functions at Old Luke Field as well as

at Hickem Field. "An excellent job is being done by the new squedron commander," is the comment OL the News Letter Correspondent. He "ones," they are issued in "twos" - to two live chiefs, two commanders of the guard. two mess sergeants, etc. -----of Let

asw Tes pollowing-named Air Corps officers, Auponathe completion of their tour of - Joduty in the Panama Canal Department, are

- Stand in the Fanama Canai Department, are assigned to stations, as follows: - Shalors Leonidas L. Koontz and Peter E. Stange to Selfridge Field, Mt. Clemens, Stange to Selfridge Field, Mt. Clemens, Stange to Selfridge Field, Mt. Clemens, - Stange to Selfridge Field, Rantoul, - Stange to Selfridge Field, Stange to Selfridge Field, Sel

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DURATION RECORD FOR PURSUIT PLANE

Selfridge Field has the privilege of claiming the unofficial world's nonrefueling endurance flight for a single place, single engine, standard equipped service Pursuit airplane of 800 horsepower or more. The airplane is a Seversky P-35, and the duration of the flight was seven hours and twenty-three minutes. The plane was piloted by 2nd Lieut. Robert H. Quigley, of the Head-quarters and Headquarters Squadron, of the First Pursuit Group, and his flight was remarkable for the fact that he landed with forty gallons of fuel, un-der the orders of the Group Operations Officer.

"It is calculated," says the News Letter Correspondent, "that Lieut. Quigley could have remained aloft nine hours and thirty minutes with still enough fuel remaining to land safely." Contending that no two motors are the same or that no two carburetors are ad-

justed the same, Lieut. Quigley experi-mented several days with different airplanes in the Headquarters Squadron be-fore selecting his airplane. He then had several hours of experimental fly-ing at different altitudes and with different throttle, carburetor and propeller setting, together with their consequent effect on the engine performance, oil temperature and cylinder temperature. It was also found that convectional air currents made it difficult to maintain constant altitude with a full tank of gas, cruising at 125 miles per hour, with 16 inches of

manifold pressure. It was decided to wait until the wind was from the north across Lake Huron, with the resultant smoother air and lack of convectional air currents. On May 3, 1939, the wind was 22 miles per hour from the north. The following information on this flight may be of interest to other pilots: The average speed of the flight was

125 m.p.h., and at no time was the air-plane flown at stalling speed. The first three hours were flown at 3,000 feet at 16 inches of manifold pressure, and the airplane could climb at 200 feet per minute at 110 miles per hour during this time. The oil temperature never exceeded 67 degrees, and was 65 degrees during the latter part of the flight. The cowling flaps had to be partially closed to keep a desirable cylinder temperature.

After three hours, as the weight decreased by fuel consumption, the alti-tude was increased to 6,000 feet. The last half hour of the flight was per-formed at 13 inches of manifold pres-sure and air speed of 105 miles per hour. The oil temperature dropped to 64 degrees and the cowling flaps were closed further. At no time did the motor miss or show signs of melfunction. -7-V-8074. A.C.

ing. Said Lieut. Quigley: "I certainly hated to land with forty gallons of fuel left."

Fuel consumption averaged 21.1 gallons per hour, and during the latter part of the flight, 18 gallons. It is estimated that he flew 950 miles, and could have flown 1200 miles in the full period of nine hours and thirty minutes.

NOVEL HOME FOR BABY KITTENS

Prior to a flight on April 13th of seven pilots of the 6th Pursuit Squadron, Wheeler Field, to the middle islands of the Hawaiian Group, four new members of the Squadron made their initial appearance and were heartily welcomed by all. When the life rafts were being inspected for the trip, it was found that four baby kittens had established themselves in the air-cushioned bow of one of the rafts. Needless to say, another raft was found, and Technical Sergeant Vielock was appointed Squadron Nurse to Kittens, in addition to his duties as Flight Chief.

The flight was made in P-26B airplanes under the leadership of Captain R.W. Douglass, Air Corps. Fields on Molokai, Maui and Lanai were reconneitered, each member of the flight leading during part of the trip. No encampment has yet been made on the Island of Maui. The spectacular beauty of the white sand beaches, the surf, the tropical jungles, and the many waterfalls of this island impressed everyone, and the News Letter Correspondent expresses the hope that the organization will camp there sometime in the future.

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ORGANIZATION OF "AIR COMMAND SECTION"

According to the Selfridge Field Correspondent, the "Air Command Section" at that field is believed to be the only "Air Command Section" existing in the Air Corps at the present time. An "Air Command Section" was organized within the headquarters of the 1st Pursuit Group, with the following functions: a. Control of the Group while in flight.

b. Reception and evaluation of information concerning the enemy in operation within the net of the "Aircraft Warning Service."

c. Direction of the combat units of this Group by telephone and radio to the interception in flight of enemy aircraft operating within the range of aircraft assigned to this Group.

Within the last few months, problems have not been carried out in great numbers, due to inclement weather, although the training in the section was carried out by "mock problems." Practice in theoretical problems is conducted, in-

cluding keeping the time factors to th very second and, assuming that the enem is close enough to be seen, it is consi ered a good interception.

ered a good interception. When the weather permits good visibility, one squadron will assimilate the enemy, while one of the other squadron will be used as the friendly force. By this method, each problem is worked ou very carefully, and every bit of information and knowledge is taken advantage of during these problems.

of during these problems. Every problem is supervised by Castain James E. Briggs, S-2 Officer, and Major Lawrence P. Hickey, Group Comman er.

GUNNERY CAMP FOR 19TH PURSUIT SQUADRON

Of late, the 19th Pursuit Squadron, Wheeler Field, T.H., was busy proparing for the annual move to the 18th Wing Gunnery Range at Bellows Field, Oahu, T.H.

The Squadron was scheduled to spend about 14 days in the field, moving to Bellows Field on April 27th and returning to Wheeler Field about May 11th Good scores were anticipated, notwithstanding the fact that it was to be the first time for some of the younger pilots to fire the entire course Besides the regular personnel of the Squadron, four attached pilots were to accompany the 19th into the field 12 namely, Lieut. Colonel Lynd, Captains Ramey, Kaye and Erickson.

Adventures of Parachute (From Page 6).

Record Card, repacked, and returned to the Base Flight Section to awalt further adventures.

Says the News Letter Correspondent: "Where it may appear to you as "just another parachute,' an old parachute man can read plainly written upon 'its sturdy straps: 'I am located in the heart of the Southern Military Alrway, whence come you and whither now?"

FIRST PURSUIT GROUP ANNIVERSARY

Friday, May 6, 1939, marked the dia twenty-first anniversary of the organization of the 1st Pursuit Group, and the occasion was celebrated by bandhets given in each organization of the Group. At each separate banquet, the respective squadron commander read the history of the Group, the war history, and the names of the "Aces" of the Group.

Major Oliver P. Gothlin, Jr. Corps, upon completion of his tour of duty in Hawaii, is assigned as air Corp Representative at the Boeing Air Corp Co., Seattle, Washington.

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-Alterda. Majore Harvey W. Prosser, Albert C. Fould Walter E. Richards, John V. Hart, Saptains Elmer T. Rundquist and Russell S. E. Bandall were recipients recently of orders directing them to proceed to Maxawake Hield, Ala., for enrollment as students in the June 1, 1939, class at the Air Corps Tactical School. They will be on a temporary duty status for about (three months, instead of for nine months as in the past. Upon completion of the Course, they will return to Kelly Field on their original assignments with the Air Corps Advanced Flying School.

Justic combat planes, originally designglifor advanced training at Kelly Field, a two finally found their way to the Advanced Flying School after first being which by tactical organizations. "To dates, six of the planes have been received at Kelly Field," declares the News Letter Correspondent, "and an indefinite number of others are expected before training of the next class starts - we hope!"

Independence of a number of a set of a

port to the Air Corps Tactical School.

Colonel E.A. Lohman, Assistant Commandant of the Air Corps Advanced Flying School, has been detailed as Director of Flying Training, during the temporary absence of Major Isaiah Davies, who is now at Wright Field, Dayton, Ohio, as a member of an aircraft evaluation board.

The Commanding Officer of the 63rd School Squadron, Captain Dyer, and the Squadron Engineering Officer, Lieut. Bishop, are giving preference to the older men of the organization who have been trying for many years to attend the Air Corps Technical School. As a result, four Air Mechanics, 1st Class, and one Air Mechanic, 2nd class, are now included in the following list of eight men who are now taking courses at this school, viz:

eight men who are now taking courses at this school, viz: Sergeant, A.M. 1st Class, Aldei J. Bariteau and Private, 1st Class, Robert B. Kercher, Communications Course. Sergeants, A.M. 1st Class, Dan E. McGibeny and Claude M. Timme; Sergeant, A.M. 2nd Class, John F. Tracey, and Corporal, A.M. 1st Class, Oren Nix, Airplane Mechanics Course.

Private, Specialist 3rd Class, Nathaniel A. Pape, Airplane Mechanics Course.

Corporal Anthony B. Sedlock, Air Corps and Technical Supply Clerk Course.

This Squadron has more men qualified for entrance to the courses at the Technical School than all of the other squadrons combined.

The 63rd School Squadron boasts that it has the finest flower gardens in the Army. Every known flower in the book is now growing around the barracks. "We are particularly proud of the various types of roses in the large beds in front of the Squadron," says the News Letter Correspondent. "Such a floral array does much to improve the appearance of these old 'war-time' buildings."

The famous 63rd School Squadron Orchestra, directed by Captain Harvey F. Dyer, has ceased activity for the summer months. The Big Musician and Assistant Director, Sergeant Bariteau, is now pursuing the Communications course at Chanute Field. Ere the winter winds begin howling through the old barracks again, the orchestra will be going strong, building pleasure and morale.

Major General Delos C. Emmons, Commanding General of the GHQ Air Force, returned to Langley Field, Va., at 8:45 o'clock on the night of Monday, May 15th, from Puerto Rico, where he and Brig.General George C. Marshall, recently named as the next Chief of Staff, conducted an inspection.

General Emmons, who used one of the army's famous "Flying Fortresses", left Langley Field on Thursday of the preceding week, with Lieut. Colonel Robert Olds as pilot and Major Harold L.George as co-pilot. The first leg of the 1,000mile journey carried the flight to Miami, Fla., where the plane was refueled, and from there the trip was resumed to Puerto Rico.

General Emmons expressed satisfaction with the trip and said that conditions were favorable. However, he made no comment regarding the purpose of the inspection.

Others who composed the crew of the "Flying Fortress" were Capt. Frederick E. Glantzberg, navigator; Staff Sergt.Jacob E. McDonald, crew chief; Sergt. James J. Boutty, assistant crew chief; Privates Archie R. Jester, Joseph H. Walsh and Walter G. Wilson. Corporal Albert E. Smith and Private Albert G. Smith accompanied the plane as far as Miami and maintained radio communication during the flight.

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BRITISH AIRMAN VISITS LANGLEY FIELD

Wing Commander David F. Anderson, of the Royal Air Force of Great Britain, who is on a "good will" tour of the United States and is engaged in a study of the progress of aviation, was a guest on May llth and 12th of Colonel Lawrence S. Churchill, Base Commander at Langley Field, Va. Wing Commander Anderson was conducted on tours of inspection at the Peninsula Airdrome, and on the afternoon of May 11th made a visit to Yorktown, Williamsburg and Jamestown.

He left the Peninsula post on May 13th for Norfolk Naval Base and will also visit various air fields throughout the country before concluding his tour of inspection.

LANGLEY PLANES MAKE MASS FLIGHT TO NATION'S CAPITAL

Fifty-one Langley Field fighting planes took part in ceremonies at Washington, D.C., on May 5th, serving as an air escort for President Anastasio Somoza, of Nicaragua. The planes left shortly after 10:35 in the morning, made the 400 minute flight to Washington, and returned to the Virginia Air Base immediately after the conclusion of the ceremonies

Making the flight were 42 P-36A single-scater planes of the Eighth Pursui Group, under the command of Lieut, Col William E. Kepner, and nine "Flying Fortresses" Boeing Bombers, of the Lieut ond Bombardment Group, under the como mand of Lieut. Colonel Robert Olds.

The planes engaged in brief manauver over Washington, in honor of the Micaraguan Chief Executive.

The Pursuit planes were from Headquarters Squadron, 33d, 35th and 36th Pursuit Squadrons. The Flight Commanders were Majors Russell L. Maughan, New Schramm; Captains John E. Bodle, Glenn Barcus, Clyde Richard and 1st: Lisut. Francis Griswold.

Pilots for the bombers were Colonel Olds, Captains Robert B. Williams, William D. Old and 1st Lieut. Curtin E. LeMay, of the 49th Squadron; Major Harold L. George; Captains Carl B. McDaniel and Darr H. Alkire, of the 96th Squadron; and Captains Alva Harvey and Neil B. Harding, of the 20th Equatron.

KELLY FIELD BOWLER MOWS 'EM DOWN

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Feeling the urge for a little evercise early one morning recently, Private Ben Prine, of the Quartermaster Corps Detachment and star Kelly Field bowler, sauntered over to the field a bowling alley for a practice session. It was a lucky urge for Prine. After a couple of practice balls when he registered strikes, he came through with twelve more to join San Aitonio exclusive group of "300" bowlers. All the hits were New Yorkers, with the exception of two, which were perfect Brooklyn strikes. Privates Boyd Patterson and Donald Duckett, of thes: Headquarters and Headquarters Squadron, Air Corps Advanced Flying School, witnessed the feat.

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PURSUITERS ON LONG NAVIGATION FLIGHT

Eight officers of Selfridge Field. Mich., under the command of Major Willis R. Taylor, of the 27th Pursuit Squadron, recently returned from an extended cross country flight which thok them as far east as Hartford, Conn. and as far south as Dallas, Texas. The trip was made with little difficulty.

Upon the completion of his tour of duty in the Panama Canal Department, Major George W. Polk, Air Corps, listesigned as Assistant Air Corps District Representative, Western Procurement Subf trist, with station at Inglewedd Cortaf. V-8074, A.C.

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-CLARMY DAY AT THE MIDDLETOWN AIR DEPOT heme.By the News Letter Correspondent

April 6, 1939, was celebrated at the Middletown, Pa., Air Depot by holding open house, and it proved to be the most successful event ever held in the commu-nity. A heavy downpour of rain did not dampen the enthusiasm of the public on military aviation, as over 18,000 people of bill were stranded. Neighboring Preof all ages attended. Neighboring Pre-paratory and High Schools declared holi-days. In order that their students might attend and see how military airplanes are repaired and recommissioned for use in the military service. Young America Weally stended in force, and some re--hasined until the curfew rang,

bell The publicity for Army Day was very adequately handled by Major Cressy. Newspapers and radio for a radius of 50 miles cooperated fully, as attested by the large a turnout with such miserable meather,

A very neat souvenir program was pre-pared and given away free. This program contained the order of displays, toge-ther with a description of how civilians might obtain employment at the Depot, a brief description of the new proposed Apprentice System, "How to Become an Airplane Pilot," Recruiting in Regular Army, and Recruiting in Regular Army Reserve.

The main feature of the exhibition way the complete showing of how a wreck-ed airplane was taken through various ateor Trom the wrecking trailer through disassembly to final assembly and flight disassambly to final assembly and flight test, including a demonstration of radio flight control. The Depot Supply Ex-hibits included samples of flying cloth-ing and all Flying Equipment accessories-even a sample Air Transport load of sup-plies for loading in an Air Transport plane. The way served local citizens of pro-minence by the Depot Engineering Offi-cer, Major Dunn, and his staff assis-tants.

ments by the public were heard on the quality of work essential to maintenance of equipment, and it is believed the time, spent in showing the public how their tax money is spent by the Army Air Corps was used to good advantage in edu-cating the public in general. In addi-tion, many letters of appreciation were received by Colonel Wuest, Post Command-er, from prominent public officials, manufacturing concerns, Rotarians, Kiwanik, stc., for courtesies extended

Kiwanik, stc., for courtesies extended them. Parking and police on the post was handled by Major Drumm and members of the 2ndo Transmort Squadron. Due to the heavy 2nd Transport Squadron. Due to the heavy raine parking of cars was quite an -ordsal, shut it was handled with dispatch Due to the heavy and tout test throughout the day. The cessoquiated.

FREAK STORM FATAL TO FLYING CADET

Two Randolph Field Flying Cadets, returning to their airdrome on a night ne igation flight on May 18th, were trappe by a freak storm, 50 miles short of their goal, forcing both to take to their parachutes. Flying Cadet Donald E. Roberts, 23, of Bessemer, Alabama, was killed - possibly as the result of was killed - possibly as the result of striking a tree after the descent in a striking a tree after the descent in a miniature twister which suddenly swept across the course. Flying Cadet Malvern H. W. Brown, who also leaped from his BT-9 training plane at the height of the storm, is in the Fort Sam Houston Hospital with a broken leg. Fifteen Flying Cadets departed from Corpus Christi, Texas, at five-minute intervals on their last navigation

intervals on their last navigation problem of the present Basic class. The first thirteen of them completed their mission with no untoward incident.

Cadets Roberts and Brown were the last two to depart from Corpus Christi, and when in the vicinity of Falls City, Texas, are believed to have encountered the "twister," which residents in the vicinity of the twin crash declared swept across a small area. Two instructors, also returning from Corpus Christi, passed through the same area within ten minutes after the accidents, and reported nothing unusual in the way of weather.

A thunderstorm was stationary about 20 miles off the course during the evening, and a meteorological officer was patrolling the area at the time as an added precaution against just such an occurrence.

"It is believed," says the News Let-ter Correspondent, "that the twister suddenly developed from the main storm area, dashed across the course followed by the Cadets, and shortly after dissi-pated. Residents in the vicinity of pated. Residents in the vicinity of Falls City reported considerable damage to houses and barns."

SECOND OF NEW CADET BARRACKS COMPLETED

The second of the two new Flying Cadet barracks, under construction since last fall, was formally turned over to the Flying Cadet Detachment, and Company "D" will move into their new quarters as soon as furniture, beds, etc., can be installed. Thus, the for companies of the Cadet Battalion each the four have their own barracks, relieving the temporary congestion which arose when the size of the student classes was increased one hundred percent in March. 1938. The south half of the basement of this building will be used as the Flying Cadet Supply Room, and the north half will serve as the Flying Cadet Carpenter Shop, also as a storage room for the Post Quartermaster.

FLIGHT END OF THE By Frank Welsh Hqrs. Squadron, 7th Bombardment Group Hamilton Field, Calif.

Dedicated to, and in memory of, the officers and men who crashed in a B-18 Bombing Plane, piloted by 1st Lieut. James D. Underhill, U.S. Army Air Corps, on the afternoon of December 23, 1938, at Uniontown, Alabama.

Grey dawn streaked the Marin hills With long, shining arrows of light; Twin motors roared on the apron, Warming up for the flight.

Then, the great silver ship, in the dawning, Like a monster bird of prey, Roaring a challenge of power, Soared out over the bay.

Pilot and onew on duty, Brave and dauntless men, Sailing away in the morning, Never to come again.

They flew the ship on its mission, Still at their posts when it fell, To perish in awful disaster, In a flaming, fiery hell!

Died as soldiers do, bravely, Those gallant, fearless men, Serving the flag of their country, Faithful until the end.

On the twenty third day of December, That splendid ship came down, Taking toll of our finest, In the crash at Uniontown. -----

> OVER WINGS AMERICA

Hats off! to our defenders of the sky, Hats off! to the men who dare to fly. From shore to shore their praises sing, Around the world let its echo ring, That all humanity may hear and know That our Air Defenders will conquer the foe. Salute those immortals who gave their all That the Stars and Stripes may never fall. May the whir of your wings, the Spirit of the Air, Be heard 'round the world where bombs burst

and flare.

Onward to glory, hold your banners high, That America may forever dominate the sky. Oh, Defenders of the Air, to Liberty be true, Write victory in the sky, your will to do or die.

For America and the Red, White and Blue.

- By Laura Meda McDowell Fisher, 1030 Leroy Avenue, Ferndale, Detroit, Mich. ------

NOW FLYING CADETS...FORMERLY ???

Apprentice embalmers and aircraft designers - practicing attorneys and ani-mal husbandrymen - sailors before the mast and radio research engineers

mast and radio research engineers these are some of the varied profes sions followed by the Flying Cadets of Randolph Field before the whining roar of airplane engines beckoned them to a career in military aviation. Flying Cadet R.A. Nowotny was an sp-prentice lineman, working on "the figh tension stuff carrying up to 48,000" volts." Cadet E.F. Porter was a seamer on a private yacht on the Great Lakes before entering Randolph Field in the March, 1939, class. Cadet R.K. Brock spent five months in the Lockheed fac-tory, working on the XP-38, which thay were constructing, while Cadets B.M. Sheldon worked as apprentice embalmer; J.S. Pirruccello practiced law and F. Harkley followed the profession of main-mal husbandry. Flying Cadet J.N. King was a radio

Flying Cadet J.N. King was a radio engineer at experimental station WOXAD, engaged in research on locating tropic-al hurricanes by means of cathode ray tubes.

Other professions listed by this one class at the Primary Flying School in-clude chromium plater, electric sign repairman, brokerage clerk, bituminous chemist, rancher, commercial pilof, if forestry, surveyor, "beef rassler," draftsman, fertilizer salesman, medical student, meteorologist, ambulance dive student, meteorologist, ambulance driv-er, Naval Academy student, and motion picture projectionist. 10 10 13 14 C ---000---

RANDOLPH FIELD WEATHER OFFICE NOTES

Under the direction of Lieut. T.S. Moorman, Assistant Weather Officer at Randolph Field, Texas, all personnel, except graduates of the Weather Echool at Patterson Field, Ohio, are taking classes in meteorology on Mondays, Tuesdays, Thursdays and Fridays in pre-paration for the air mechanics examina-tion which will take place on June 5th, as well as for the observers' examina-tion on June 15th. Any A.M. rating now held by the weather personnel are issu-d by the various fields, but beginning July 1, 1939, the Weather Squadrons will issue the ratings. The classes are being conducted by Sergeants A.W. Throgmorton and J.T. Under the direction of Lieut. T.S.

Sergeants A.W. Throgmorton and J.T. Treat.

Lieut. D.Z. Zimmerman, Weather Offi-cer at Randolph Field, has speeded in work on a meteorology text book he is writing, in order that it may be com-pleted in time for use in the civilian Primary Flying Schools. The book will have many illustrations, which Privates J.H. Spikes and W.W. Bair are drawing. Lieut. T.S. Moorman is assisting with the book. the book.

AL NOV

after July 1, 1939, to procure a well balanced technical education in the op-eration, repair and maintenance of mod-ern aircraft and its accessories, the Hon, Harry H. Woodring, Secretary of War. Stated that under present plans, which are dependent on Congressional appropri-ations, the authorized enlisted strength of the Army Air Corps will be increased by 23,644 during the year July 1, 1939, to June 30, 1940. All of the men neces-sary for this increase will not be en-listed at once but will be composed of monthly increments, as follows: . During the months of July, August, September and October, 1939, 1200 men will be enlisted each month; for the months of November and December, 1939, and Januery and Fabrace 1960, 1960,

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"Will be enlisted each month; for the "months of November and December, 1939, and January and February, 1940, 1500 each month; and for the months of March, "April, May and June, 1940, 3211 each "month, making a total of 23,644. "Of this number, the Army plans to train 17,149 as specialists in all the tech-

ance and operation of aircraft and its accessories,

 Description
 Descript Lowry Field, Denver, Colorado, as follows:

At Selected Civilian Schools

	No, of
Ja To Subject	Students
Airplane Mechanics	1,000
100A At Chanute Field, Rantoul, I	llinois
Airplane Mechanics	6,980
Aircraft Machinists	323
Aircraft Welders	271
Aircraft Metal Workers	590
Parachute Riggers	414
Carpurator Specialists	240 616
Electrical Specialists	498
Propeller Specialists	336
Radio Repair and Operation	2.934
Link Trainer Specialists	2,934 96
The Lowry Field, Denver, Cold	orado
Aircraft Armorers, etc.	1.872
- Photography (air and ground)	600
Olerka (Administrative, Supply,	
Engineering and Operations)	2,400
in order that all applicants :	for en-
"lilstment may have no false impri	essions
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Army will be given this training, and no one will be trained as a civilian. The term of enlistment is three years. Anyone who desires to enlist should apply to the nearest Army Recruiting Of-fice. Suitably qualified men, citizens of the United States, between the ages of 18 and 35 years, are eligible, but applicants under 21 years of age are required to have the written consent of their parents or guardian.

Upon acceptance by the Recruiting Of-ficer, each man then becomes a private in the Regular Army and is paid \$21.00 per month, plus board, uniforms and other clothing (except civilian clothes) He is then assigned to an Air Corps sta-tion where he is given basic training in the duties of a soldier. During this training the soldier makes empliced this training the soldier makes applica-tion to attend school in any of the He is foregoing selected subjects. then given tests to insure that he has the ability to pursue the course which he has selected. Such test consist of a mental alertness test and a mathematical examination which covers the subjects of arithmetic and algebra.

If, upon completion of these tests the applicant is selected to attend the mechanic school and receive training in one of these courses, he is then placed upon the school eligibility list and will be transferred to one of the above schools for training as vacancies occur. The present capacity of these schools is being rapidly expanded to accommo-date the additional personnel which must be trained. It will be some time, however, before most of the soldiers who now enlist will have an opportunity to attend the schools, but he may expect to attend any course in one of the schools sometime during this three-year enlistment.

Upon completion of his technical training, he is then eligible for pro-motion within the Army, but if he does not care to remain in the Service he can be discharged at the end of the 3year period and return to civil life as competent technician in his chosen line of work.

The Civilian Schools referred to, providing for the training of 1,000 Army

Air Corps enlisted men, are: Curtiss-Wright Technical Institute of Aeronautics, Grand Central Air Terminal, Glendale, Calif.

The Aeronautical University, Inc.,

1330 South Michigan Avenue, Chicago, Ill. Roosevelt Field, Inc., Aviation School Division, Roosevelt Field, No. 1,

Mineola, L.I., New York. Spartan School of Aeronautics, Apache Boulevard & Chamberlain Drive, Tulsa, Oklahoma.

Casey Jones School of Aeronautics, Inc., 534 Broad Street, Newark, N.J. 3- V-8074, A.C. -13New England Aircraft School, 126 New-

SONS OF AIR CORPS OFFICERS ASSIGNED TO ACTIVE DUTY.

Under Special Orders of the War De-Under Special Orders of the War De-partment, recently issued, two newly commissioned Air Reserve Officers, 2nd Lieuts. Bailey Cavenaugh Cook and Tar-leton Harvin Watkins, who graduated from the Air Corps Advanced Flying School, Kelly Field, Texas, May 25, 1939, were assigned to extended active duty - Lieut. Cook to Mitchel Field, L.I., New York, and Lieut. Watkins to the Hawaiian De-partment. partment.

partment. Lieut. Cook, son of the late Lieut. Colonel Seth W. Cook, Air Corps, U.S. Army, attended the U.S. Military Academy at West Point, N.Y., for two years. He then attended George Washington Univer-sity, Washington, D.C., and Purdue Uni-versity, West Lafayette, Indiana, each for a period of two years. While underfor a period of two years. While under-going flying training at the Air Corps Training Center, he specialized in At-tack Aviation.

Lieut. Cook's father died at Chanute Field, Ill., February 10, 1929, at which time he was in command of that station. He entered the military service during the Spanish-American War, enlisting in the Cavalry on June 1, 1898; Appointed from the ranks, he was commissioned a second lieutenant of Cavalry on February 2, 1901. After seeing service with the Punitive Expedition in Mexico, under General Pershing, he was detailed to the Aviation Section, Signal Corps; took flying training at the Aviation School at San Diego, Calif., and was rated a Junior Military Aviator on June 15, 1917.

While with the Air Corps, Colonel Cook served successively at Columbus, New Mexico, with the 1st Aero Squadron; at Kelly Field, Texas; Gerstner Field, Lake Charles, La.; Scott Field, Ill.; Elling-ton Field, Houston, Texas; and Taylor Field, Montgomery, Ala. While at Ellington Field, he organized and com-manded the Second Provisional Wing Lake manded the Second Provisional Wing

Prior to the reorganization of the aviation branch of the service in 1920, Colonel Cook returned to the Cavalry, and after serving a brief period with the lst Regiment at Douglas, Arizona, he was permanently commissioned in the Air Corps and served at Kelly Field, Texas, and as Air Officer of the 5th Corps Area at Columbus, Ohio, prior to his being assigned on June 30, 1928, as Commanding Officer of Chanute Field.

Lieut. Watkins, the son of Captain W.W. Watkins, Air Corps, U.S. Army, stationed at Aberdeen Proving Ground, Md., also specialized in Attack Aviation at the

Air Corps Training Center. Priorto bury Street, Boston, Mass. Parks Air College, Inc., Parks Airport, East St. Louis, Ill. of learning - the University of Mary-Texas A. & M. College. ------

NEW PLANES FOR 27TH PURSUIT SQUADRON

The 27th Pursuit Squadron of the 1st Pursuit Group, Selfridge Field, Mt. Clemens, Mich., is now equipped with its full complement of 29 P-36C airplanes and one C-40A.

The twelve newly assigned pilots of this Squadron who are recent graduates of the Air Corps Training Center will climax their training flight period of with a navigation flight over a disa tance of 1400 miles, to be completed during one day. These pilots have been under the supervision of the Flight under the supervision of the sup for the participation in compatinization assignments, beginning July 1st. The proposed navigation flight, originating at Selfridge Field, will follow routes to Langley Field, Va.; Bowman Field, Ky., and return to Selfridge Field. Such an itinerary is beyond comparison with the memories of these young offi-cers of their training days at the Air Corne Training Center, when the "Round Corps Training Center, when the "Round the Horn" flight in P-12's absorbed three days for approximately the same distance. ------

OPENING OF FLOTATION GEAR NECESSITATES EMERGENCY PARACHUTE JUMP.

Second Lieut. Conrad F. Necrason, Ai: Corps, of the 3rd Pursuit Squadron, Nichols Field, Rizal, P.I., made a successful parachute jump from a P.264 airplane over Laguna De Bay, Rizal, Luzon, P.I., on the morning of April 20th. The accident occurred wills he suc was making a routine reconnalisance $flight_s$

The News Letter Correspondent states that the cause of the accident is be-lieved to have been the opening of the lieved to have been the opening of the Pursuit plane's flotation gear. While making a climb to an elevation of 5,000 feet, the gear opened and Lleut. Mecra-son lost control of the plane, which dived toward Laguna De Bay. He attempt ed to right the plane and remained in it until it had reached an altitude of about 2,000 feet. The craft was fall-ing at the rate of about 250 miles per hour, and the pilot had to "bail out" as a last resort. He landed near the Fort William McKinley Reservation. Fort William McKinley Reservation sustained a slight injury to his mille. The Nichols Field Aircraft Accident Board was considering the advisability

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OJAWARD FOR ATTACK-BOMBER AIRPLANES 9.1 **3**.69

"Ehe Acting Secretary of War, the Honorable Louis Johnson, announced on May 30th an award to the Douglas Aircraft Company, of Santa Monica, California, in the amount of approximately \$15,000,000 for the production of a new design of Attack Bomber.

The price includes spares, but not the cost of engines, propellers, armament, radio equipment, etc., furnished by the government.

This is an all-metal monoplane, power-ed with the large Wright "Cyclone" engine with supercharger. Some of these planes are equipped with Hamilton Standard propelkers and some with Curtiss Electric propellers. It is equipped with flaps of wir brakes, retractable landing gear, and efficient flying.

The Douglas Company's designation for 2. This plane is DB-7. The Army Air Corps designation has not yet been assigned.

The present Attack Bomber is the re-sult of intensive studies made of the surcraft used in operations in both Spain and China. By taking advantage of the lessons learned in these conflicts, The has been possible to combine in a single plane the good features of the Attack plane, which has been developed orimarily by the United States, and of a In recommending the light fast Bomber. purchase of this Attack Bomber, Major General Henry H. Arnold, Chief of the Air Corps, advised the Acting Secretary of War that "this plane has a better performance than any comparative air-

performance than any comparative air-plane in production or in service any-where in the world today." The Acting Secretary of War also an-nounced awards to the Glenn L. Martin Company, Baltimore, Md., and the Stear-man Aircraft Company, Wichita, Kansas, for the production of their Attack Bom-bers in the amount of approximately half a million dollars each. The planes to be procured under the award to the Martin and Stearman Com-panies are essentially the same as the

panies are essentially the same as the planes which were entered at Dayton, Ohio, in the Attack Bomber competition, circular proposals for which were opened on March 17th. The improvements found - to be desirable as the result of exten-sive tests will be incorporated into the planes to be produced as the result of this award to the two companies.

All tactical transportation of the Let Hursuit Group, Selfridge Field, Mich., was inspected by the Group Com-mander on May 20th. With Group Hors. In and Hors. Squadron operating under a educed strength, the Squadron had to call on combat squadrons for personnel vip operate the transportation. leaslatin

72ND BOMBARDMENT SQUADRON COMPLETES AERIAL GUNNERY.

Commanded by Major Oliver P. Gothlin, Jr., Air Corps, the 72nd Bombardment Squadron, Hickam Field, T.H., completed on March 25th their aerial gunnery phase of the Training Year 1938-1939, as required by paragraph 20, Training Regulations 440-40 (Tentative).

On an open water range, roughly 20 miles off the west shore of Oahu, the Squadron, in spite of range restric-tions and much interference by fishing sampans and other craft, nevertheless set an enviable record with an average score of 509 per man.

All the forty-two gun positions allocated to the Squadron are now filled with qualified expert aerial gunners (12, less 3 who returned to the main-land prior to completion of the course, were filled by previously qualified gunners). In all, six officers and thirty try onlisted men cualified as thirty-two enlisted men qualified as expert gunners during the course. A three officers had previously quali-fied, 100% of the officer personnel (including two attached) are now qual including two attached) are now quali-

fied expert aerial gunners. To Corporal Lloyd D. DeFreece went the honor of having the highest indi-vidual score - 776 out of a possible 800. First Lieut. Jack W. Hickman turned in the second highest individual score, with a total of 704 hits. Third place went to Second Lieut. Lewis L

Mundell, who obtained a score of 692. By the use of ammunition which had the bullet noses painted with distinctive colors, several men were permitted to fire into the same target, and thus reduce the time required to return to their base to drop the target after No difficulty was experieach event. enced in identifying hits. Second Lieut. Conrad H. Diehl was

Range Officer during the conduct of the phase.

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BRITISH AIRMAN VISITS MITCHEL FIELD

Wing Commander D.F. Anderson, of the British Royal Air Force, who just recently arrived in this country, was a visitor at Mitchel Field, L.I., New York, on May 4th. Commander Anderson is on duty with the Air Ministry in London, and is in the United States for the purpose of inspecting American air fields, manufacturing plants and vari-ous technical facilities in connection with aviation. Mitchel Field was his first stop on an itinaway scheduled to first stop on an itinerary scheduled to take him to the Pacific Coast and return. He expects to be in the United States about one month. ----

WAR DEPARTMENT SPECIAL ORDERS Changes of Station

To Brooks Field, Texas: Captain Clarence D. Wheeler, from the Panama Canal Department, for

duty with the 22nd Observation Squadron. <u>To Barksdele Field</u>, La.: 1st Lisut. Harold Q. Huglin, from March Field, Calif. <u>To Bolling Field</u>, D.C.: Major William M. Lanagan, from Office of the Chief of the Air Corps, Washington, D.C.

To Chamite Field, Ill .: Major Edward C. Black, from Hamilton Field, Calif. He is assigned to duty as student at the Air Corps Tactical School, Maxwell Field, Ala., for a period of three months, and will then report to the Air Corps Technical School.

To Fort Benning, Ga.: 1st Lieut. Harry N. Burkhelter, from the Philippines, for duty with Flight B, 16th Observation Squedron.

To Fort Leavenworth, Kansas: Captain Wm. L. Ritchie, from duty as student at Air Corps Tactical School, Maxwell Field, Ala., reporting not later than September 8, 1939, for duty as student at the Command and General Staff School. In the intervening period he will be placed on yemporary duty in the Office of the Chief of the Air Corps, Washington, D.C. Previous or-

ders in his case revoked. To Fort Lewis, Washington: 1st Lieut.Kenneth R. Crosher, for duty with 91st Observation Squadron, upon expiration of tour of duty in Panama Canal Department.

To Fort Sill, Okla.: 1st Lieut. George D. Campbell, Jr., from Panama Canal Department, for duty with Flight C, 12th Obs. Squadron.

To Fort Lewis, Wash.: 1st Lieut. Talma W. Imlay, from the Philippines, for duty with the 91st Observation Squadron.

To Hamilton Field, Calif.: 1st Lieut. David N. Motherwell, from the Philippine Department; 1st Lieut. Kenneth B. Hobson, from Panama Canal Department (Previous orders in his case revoked).

To Houston, Texas: Captain Charles W. Lawrence, upon completion of his present course of instruction at the Command and General Staff School at Fort Leavenworth, Texas, for duty as

Instructor, Air Corps, Texas National Guard. To Kelly Field, Texas: Captain Edward H.

Underhill, from Panema Canal Department. To Langley Field, Va.: Lieut. Celonel Willis H. Hale and 1st Lieut. William T. Hudnell, from Panama Canal Department; 1st Lieuts. Wendell W. Bowman and Frederick E. Calhoun, from the Philippine Department, the latter for duty with

the 3rd Observation Squadron. To March Field, Calif.; Captain Hilbert M. Wittkop, from Langley Field, Va.; 1st Lieut. Birrel Walsh, from Panema Canal Department. To Mitchel Field, N.Y.: 1st Lieut. Millard

Lewis, from Panama Canal Department; also 1st Lieut, Felix L. Widel.

To Moffett Field, Calif.: Lieut, Colonel George L. Usher, from Office of the Chief of the Air Corps, Washington, D.C. Previous orders in his case revoked; Captain Fred O.Tally, from the Philippine Department. <u>To New York City:</u> 2nd Lieut. Victor R.

Haugen, from 1st Observation Squadron, Marshall

Meld, Fort Riley, Kansas, for duty as studen at Daniel Guggenheim School of Aeronautics, New York University.

To Randolph Field, Texas: 1st Lieut. Norma B. Olsen, from Panama Canal Department.

To San Juan, Puerto Rico: Colonel Follett Bradley, from Moffett Field, Calif., reportin to the Commanding General, Puerto Rican Department, for assignment to duty with the Ai: Corps.

To Scott Field, Ill.: 1st Lieut. Charles : Winkle, from Panema Canal Department.

To Washington, D.C.: Captain Lawrence S. Kuter, from duty as member of Staff and Faculty, Air Corps Tactical School, Maxwell Field, Ala., to duty in the Office of the Chief of Staff.

To Wright Field, Dayton, Ohio: 1st Lieut. Donald L. Hardy, from Brooks Field, Texas; Captain Ralph O. Brownfield, from the Philippine Department; Captain Howard H. Couch and 1st Lieut. R. H. Lynn from the Panema Canal Department.

Promotions (Temperery)

To Lieut. Colonel: Major Gilbert T. C from May 20, 1939. To Colonel: Lieut. Colonel Clinton W. Major Gilbert T. Collar

Russell (Air Corps) General Staff Corps, from May 1, 1939.

To Major: Captain Thomas D. White, from May 20, 1939.

<u>Promotions (Permenent)</u> <u>To Lieut. Colonel:</u> Lieut. Colonel Laurence F. Stone, from May 1, 1939.

To Major: Major Ulysses G. Jones, from May 1, 1939.

Extended active duty for Air Reserve Officer Ist Lieut. Richard Charles Kugel, Rhine-

lander, Wis., continued on active duty at Mitchel Field, N.Y., to June 16, 1940. 1st Lieut. Arthur Yeaton Snell, Brockton,

Mass., continued on active duty at Mitchel Field to June 15, 1940.

2nd Lieut. Ralph James Moore, Sacramento, Calif., to active duty at Sacramento Air Depo to May 31, 1940.

1st Lieut. John Harold Turner, Corning, Iowa continued on active duty at March Field, Calif., until June 15, 1940.

lst Lieut. Paul Waterman, Washington, D.C., continued on active duty at Mitchel Field, N.Y., to July 1, 1940.

1st Lieut. Gilbert Minnis, Hadley, Pa., con tinued on active duty at Langley Field, Va., until June 15, 1940.

Assignment of Major Rufus B. Davidson, from Barksdale Field, La., to Scott Field, Illinoi revoked.

Major David G. Lingle is relieved from duty in the Office of the Chief of the Air Corps, Washington, D.C., and assigned as a member of the Meronautical Board, Washington, D.C.

Lieut. Colonel Thomas J. Hanley, Air Corps, stationed at Mitchel Field, N.Y., has been de tailed as a member of the General Staff Corps and assigned to duty in the Puerto Rican Department, arriving at San Juan by June 28,'39

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VOL. XXII	AIR	CORPS	NEWS	LETTER NO.
Information Divi Air Corps	sion	June 15	5 , 1939	Munitions Buildin. Washington, D.C.

The chief purpose of this publication is to distribute information on aeronautics to the flying personnel in the Regular Army, Reserve Corps, National Guard, and others connected with aviation.

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THE PUERTO RICAN INSPECTION FLIGHT (Narrated by Capt. F.E. Glantzberg, Navigator)

For the purpose of flying Major General Delos C. Emmons, commanding the GHQ Air Force, to Puerto Rico to inspect proposed landing field sites, Colonel Robert Olds, commanding the 2nd Bombardment Group, departed from Langley Field, Va., at 10:00 o'clock on the morning of May 10th for Bolling Field, D.C., in a B-17 Bombardment plane. Comprising the crew were Major Harold L. George, Captain F.E. Glantzberg, Staff Sergeants J.E. McDonald, J.J. Boutty, Corporal A.R. Jester, Privates 1st Class J.H. Walsh and W.G. Wilson.

We met General Emmons at Bolling Field at noon and took off for Miami, Fla. The General desired to look over the proposed site for the South East Air Base at Tampa, Fla., so we laid our course direct for Tampa, and at 4:30 p.m. circled over that city. Leaving Tampa for Miami, we encountered a cold front about 60 miles out of Tampa, and for the last 30 minutes into Miami were constantly changing course, getting around and through the excessive turbulence.

ing course, getting around and through the excessive turbulence. Lieuts. Torgils G. Wold, as Weather Officer, and James S. Sutton, as Communications Officer, had preceded the flight to Miami to make advance arrangements with Pan American Airways for utilizing their facilities to the best advantage. That evening, after an excellent fish dinner at Reid's, Lieut. Wold went over his forecast for the next day and listed the Pan American stations from which weather reports could be obtained enroute. All reports were to be coordinated through the Miami office and relayed to the plane through the Army radio station at Chapman Field. The cold front we had passed through getting into Miami was forecast to be in the vicinity of Antilla, Cuba, at the time we would be there the next day. Except for that, however, the weather would be generally clear over the sea areas, although there would be cumulus clouds and thunder storms over the islands.

At 8:10 the next morning, we took off for San Juan. Permission had not been obtained to fly over any foreign countries enroute, so that we could not fly the direct course. Instead, we laid a course for Guillermo Key, a point midway on the north coast of Cuba. From there the course followed the north of Cuba and Haiti, keeping well outside the three-mile limit. The navigation involved on the 1150-mile flight from Miami to San Juan presented no particular problem, inasmuch as the longest we were out of sight of land was only an hour and a half on the 250-mile jump from Miami to Cuba.

Seventy-five miles out of Miami, while we were still climbing for altitude, we ran into a local thunderstorm area which necessitated detouring 50 miles to the southwest. Beyond this thunderstorm area, however, the sky cleared and the sea was a brilliant blue setting for the lighter amethyst patches of shallow water, sparkling in the sunlight around white coral reefs.

In the vicinity of Antilla, Cuba, as predicted, we encountered the cold front, but had no difficulty in topping it at 17,000 feet. We saw little of the coasts of Cuba and Haiti. Both were thickly covered with cumulus clouds and thunderstorms that obscured all but occasional glimpses.

Excellent radio communication was maintained direct with the Chapman Field relay station throughout the entire flight. As Haiti was left behind, we began losing altitude, and a few minutes before two o'clock - 5½ hours out of Miami - we flew low over Point Borinquen, a bluff about 250 feet high overlooking the water, on the northwest tip of Puerto Rico. After several circles over Point Borinquen, Colonel Olds headed the plane east along the coast toward San Juan.

Puerto Rico is an island roughly oval in shape, about 100 miles long by 25 miles in width. The center is quite rugged, the mountains rising abruptly to 4,000 feet from the coastal plain that surrounds the island, except for its western tip. This coastal plain is bordered by an almost continuous gentlyshelving, sandy beach. As we approached San Juan, we could see the imposing walls of the historic Spanish fortress, El Moro, guarding the entrance to the harbor of San Juan. The single narrow runway at Isla Grande Airport remained

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to be tested for its adequacy, but the wind was blowing 10 miles an hour at a 45 degree angle across the field, and

45 degree angle across the field, and Colonel Olds set the big ship down easily, barely using up a thousand feet. With the group waiting to greet General Emmons were Colonel John W. Wright, Com-manding Officer of the 65th Infantry, at San Juan, and Lieut. Jack Stanley. Aide to Governor Winship.

From the airport, we went direct to the Palace to call on Governor Winship, who was kind enough to invite us to stay with him as his guests while we were in Puerto Rico. Later in the afternoon, we made a sightseeing tour of the Army post and some parts of San Juan. I was particularly impressed with the similarity of the place with the Philippines, except that Puerto Rico's climate is far more temperate. During our four-day stay on the island, the sun's declination was the same as the latitude of San Juan, but even with the sun directly overhead at ngon, we were never uncomfortably warm. The prevailing easterly trade wind blow-ing steadily off the water keeps the temperature down to an average of 76 de-grees throughout the year, and it would be difficult to find a more pleasing lo-cality - California and Hawaii enthusiasts notwithstanding.

Friday morning, May 12th, after break-fast, we started out on a two-day, 400-mile automobile tour of the Island to inspect proposed Air Base sites. On this tour of the Island, I was even more impressed with its similarity to the Philippines by seeing an occasional carabao, or water buffalo, and many Burma cattle both in the fields and pulling two-wheeled carts. In the out-lying districts, bamboo frame and palmthatched huts are the predominant archi-tectural style. Like the Philippines, Puerto Rico is principally an agricultural country, its main products being sugar, tobacco and cocoanuts, though, of course, it raises sufficient tropical fruits and vegetables for local consumption

After this interesting two-day automobile tour, Puerto Rico proved that it could entertain most hospitably. On Saturday night we were guests at the Officers' Club of the Post of San Juan and at the Casa de Espana, the Spanish Club.

Sunday morning, the U.S S. NASHVILLE arrived at San Juan, bringing General Marshall on his way to Brazil. General Marshall with his staff went up in the B-17 and personally inspected all the proposed sites from the air. He was proposed sites from the air. He was particularly impressed with the desira-bility of the sites selected for the main installation, as well as with the potentialities of the Island as a whole from the standpoint of available sites for auxiliary airdromes should the situ-ation demand reinforcement by Borbard. ation demand reinforcement by Bombardment units from the States.

Monday morning, the 15th, we left San Juan at 8:05 o'clock, and started back for Miami, Fla. We retraced our course down as far as the eastern tip of Guba, then the last 500 miles shot direct for Miami, passing Andros Island twenty of miles on our right. The trip back mais uneventful, and we landed at Miamirata 2:30 in the afternoon. It still being early, General Enmons decided to stop for lunch and go on through to Langley Field the same day. Servicing was sem-pleted by 3:30 and, taking off at 3:45, we were back at Langley Field at 8:40 that evening.

Several hundred years ago, these the Spaniards built a fortress at San Juan to control the Caribbean area, and now again the importance of Puerto Rico 198 is realized as distances shrinkibyfoni leaps and bounds and Fuerto Ricoscomes within six hours of Florida and sight hours of Virginia - for it is only a fifteen hundred miles direct from Sano

Phoroneter Juan to Langley Field. ाः देवर्द्ध मठाव ---000--tendance

LONG RANGE COMMUNICATION BY THE H- file I SECOND BOMBARDMENT GROUP. and the been Copies 60

Unusual radio communication between planes of the 2nd Bombardment Groupy it Langley Field, Va., and PL-2, its lield ground station, is becoming routine don one occasion a B-18, sitting on the vib ground at Orlando, Fla., contacted iv Langley Field at the first press of the key on prearranged schedule for the so weather. On another occasion similar results were achieved with a plana sisting on the ground at Chanute Fieldqia 111 ailie

Station PL-2 has consistently worked B-17's and B-18's in the air as farlas Denver, Colo., without any troublevate all, both day and night. This has fee proved of inestimable value in main 402 taining both control of airplanes inig the air and in receiving forecasts for destinations, not always available from Department of Commerce Stations Sv scioa ----000----

SIncw and The 5th Squadron, Mitchel Field Mith, during the month of May, carried out its program to qualify every combat 10 crew member as an expert aerial gumer. The results have been remarkably good, with every man who was run through the course qualifying. The Squadron his also concentrated on having a number of expert bombardiers among the officer personnel as well as among the emilisted men. .:.<u>:</u>4, ∿63}

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Major John P. Richter, Air Corpsion who has been holding a temporary com mission in that grade, was promoted to the permanent grade of Major, June 4st. - V-8096, A.C.S. 10 -2-

THE SCHOOL OF AVIATION MEDICINE EXHIBIT

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.schn exhibit of the activities of the School of Aviation Medicine, Randolph Field, Fexas, was shown at the Interna-tional Congress of Military Medicine and Pharmacy, recently held at the Willard Hotel in Washington, D.C. This Congress was convened between the dates of May 7th to the 19th inclusive The arbitit 7th to the 19th, inclusive. The exhibit was opened to accompodate the delegates during the registration, which began on May 7th.

Medical representatives of 37 different nations were present at the Congress. Many of these representatives were the highest ranking officers of the medical services of their respective countries, including General A. Waldman, Surgeon General of the German Army, the only General of the German Army, the only foursetar medical officer in the world.

The display consisted of four panels of pictures, serial action apparatus, Phorometer, Projectoscope, Depth Percep-tion Apparatus, Crash Kit, Medical At-tendance Kit, Portable Examining Unit, Ishi-Hara Color Charts, School Texts used in the Correspondence Course, copies of Flight Surgeon Topics, and numerous charts and diagrams of the activities of the School of Aviation Medicine. The picture panels mentioned above:consisted, roughly, of 85 pictures, divided about equally between the activitisstof the School of Aviation Medi-Gine and those of the Air Corps Training Center. The Crash Kit and the Medical

Attendance Kit are recent developments -at the School of Aviation Medicine. A miniature Battalion Aid Set, sent from Carlisle Barracks, was also included in the space.

Barvice people and laymen. The foreign delegates were especially interested, and some of them spent hours discussing the pictures, charts and apparatus. This pictures, charts and apparatus. This discussion was often carried on through interpreters. It was the pleasure of

minterpreters. the exhibitors to discuss our work with some very notable medical officers of the world. A partial list of these in-, clude -

General A. Savornin, Surgeon General of the French Army;

. 19 General Iliescu, Surgeon General of the Rumanian Army

Major General Hippke, Director of the Medical Division of the German Air doras ::

Surgeon Vice Admiral P.T. Nicholls, Surgeon General of the British Navy;

Rear Admiral Fikentscher, Surgeon

General of the German Navy; Air Commodore H.E. Whittingham, Sur-geon General of the British Royal Air Force; and Senator Count Aldo Castelloni di

. Chi simalo, of Italy, recently in charge of medical activities of the Ethiopian

campaign. The British medical serv. were well represented. Officers from The British medical servic the Canadian, Australian and Indian medical services, as well as the Royal Army Medical Corps, were shown through the exhibits. Officers from countries as far away as Siam were also noted as being present. Practically every delegation from the South American and Central American countries attended the exhibit at one time or another.

The greatest amount of interest was shown in the pictures, charts, serial action apparatus and projectoscope. Copies of our literature were distribut ed to every delegate in attendance. This literature describes the School of Aviation Medicine, its history, operation and functions.

The exhibit was conducted by two officers on duty at the School of Aviation Medicine - Captains Charles L. Leedham and Norman W. White, Medical Corps, U.S. Army.

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DEMONSTRATION OF AIRCRAFT EFFECTIVENESS

In order to acquaint the commissioned personnel of other branches of the service with the powers and limitations of the aircraft in the Panama Canal Zone, the 16th Pursuit Group, based at Albrook Field, staged a demonstration of aerial attacks on surface targets on the after-noon of May 19th. Targets, in the form of aluminum "slicks," were laid on the surface of Panama Bay, just off the en-trance to the Canal, and near the islands just off-shore, where a large group of officers of the Pacific Sector and guests of the Commanding Officer of the Group were gathered. The 24th and 29th Pursuit Squadrons

demonstrated combined, simultaneous at-tacks with machine gun fire, followed by the 74th Attack Squadron dropping time-fused bombs. The 44th Reconnaissance Squadron, acting as bombardment for the purposes of the demonstration, concluded the show with high altitude The effectiveness of the debombing. monstration was evident from the en-thusiasm of the spectators.

The following-named Air Corps officers, upon the completion of their tour of duty in the Panama Canal Department, are assigned to stations, as follows: Captain Thurston H. Baxter and 1st Lieut. Kenneth B. Hobson to Chanute Field, Ill.

Captains Charles G. Goodrich, Robert F. Tate and 1st Lieut. John J. O'Hara, Jr., to March Field, Riverside, Calif. Captain Donald B. Smith to Lowry Field, Denver, Colo.

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The 79th Pursuit Squadron, 20th Pursuit Group, has been operating from 5:00 a.m. to 7:00 p.m. during week days, dur-ing the month of May in an effort to complete the ground gunnery course prescribed.

The smooth air found in the early morn-ing and late afternoon has helped to raise the average individual score. Normal day operations have been confined to completion of individual training which was greatly hampered by the shortage of airplanes for the first half of the fis-

cal year. Events II and VII of the Pursuit Aerial Gunnery Course is to be fired at Galveston, Texas, using the Galveston Muni-cipal Airport as a base of operations. The new runways at this field are much more desirable for the operations of P-36A and B-10 airplanes than the grass field at Fort Crockett.

55th Pursuit Squadron

Every pilot an expert! That was our goal on April 15th when we left Barks-dale Field for Galveston, Texas. On M On May 6th we returned to our home station, a squadron of experts - well, almost any-way! The weather was fine during the stay of the squadron there. Individual unit and high altitude gunnery were all completed during the three weeks' encampment. The enlisted personnel showed the old 55th spirit in maintaining the airplanes and keeping a maximum number in the air. But all was not work! For those hale and hearty men, the ocean of-fered its cold waves as a form of recreation. For those who craved more gentle sport, fishing, golf, tennis, horse-shoes and siestas held the spotlight. Mess Sergeant Greco is still our pride and joy - the food was fine, Sergeant. May 1st brought us a new addition but an old pilot - 2nd Lieut. A.B. Walker, Air Reserve. For the last eight years he has been manager of the airport and flying school at Miami, Oklahoma. Lieut.

Walker's home is in Oklahoma. Oh, unhappy day! Our Squadron Com-mander, Captain M.R. Nelson, left us June 1st, to be away for three months, in order to attend the Air Corps Tactical School at Maxwell Field, Ala. We wish him the best of luck, and we find consolation in the man who is to take command during his absence - Captain Homer L. "Tex" Sanders. Operations will be under'the guidance of and Lieut. Young, Air Reserve.

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Effective about September 1, 1939, Capt. James G. Pratt, Air Corps, is re-lieved from duty at Maxwell Field, Ala., and assigned to duty in the Office of the Chief of the Air Corps, Washington, D.C.

WORK STARTS AGAIN AT TACTICAL SCHOOL

The first of the 1939-40 classes of the Air Corps Tactical School, Maxwell Field, Alabama, began on Monday morn-ing, June 5th, with 99 students present and one not yet reported. Colonel Walter R. Weaver, Air Corps; Commandant of the School, delivered the

opening exercise address.

Colonel Millard F. Harmon and the other directors gave an outline of work to be carried out during the school term, and then Major F.G. Epling, Ooast Artillery, conducted the first class, this being in map reading. On June 6th, the students were at 10 acheduled to get down to their magnitude

scheduled to get down to their regular work of three classes during the day, ----minated or

COMPLETION OF COURSES AT RANDOLPH FIELD

Aided by an almost uninterrupted that stretch of cloudless skies, both the in Primary and Basic Stages at Randolph ac Field, Texas, completed their course of training on May 24th. Only sleven weeks of actual flying training wire to needed by Class 40-A, now finishing up Primary Stage, to complete their rourse of 65 hours' flying time. One flying day was lost as the result of a manify field, and training was discontinued field, and training was discontinued field, and training was unsconvergent for less than an hour on another beca-sion when a sudden wave of moist only air swept across the airdrome, and the sew ceiling lowered from unlimited to 400¹¹ feet in a few minutes, but as rapidly cleared

cleared. The Class on Basic Stage, 39-C actaul rapidly wound up their training program with only a few hours more of formation and acrobatics needed to complete their 103 hours of flying time.

and acropatics needed to complete the service of flying time. Eight members of the Flying Departry ment of the Civil Aeronautics Authority all of whom hold Reserve commissions in some branch of the military or naval service, completed the Instructors! preparatory to acting as Supervisors for the new Civil Aeronautice Authority the new Civil Aeronautics Authority college training program. . O Jaone

Captain Uzal G. Ent, Air Corps, haven's been relieved from duty with the 18th Reconnaissance Squadron at Mitchell off Field, N.Y., and assigned to duty as Military Attache and Military Attache of for Air, American Embassy, Lina, Peru

Captain Frederick E. Glantzberg, ALT, Corps, has been relieved from assignment and duty at Langley Field, Va. and as a signed to duty as a member of the duty as a member of the United States Military Mission to Ber cs Bogota, Colombia. ern siidtiv ----nel ver je

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FIFTH BOMBARDMENT GROUP PARTICIPATES IN "BLACKOUT." By the News Letter Correspondent

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On the evening of May 18, 1939, the 5th Bombardment Group, Hickam Field, T.H., with all available airplane and crews participated in a "Blackout" drill which involved the entire Island of Oahu. The Group acting as an enemy air force, The Group, acting as an enemy air force, made a simulated night attack against important installations on Oahu. In or der to thwart this effort, the coopera-tion of all civilians to aid in the "Blackout" was requested and obtained. In or-

One of the most characteristic features of the Island, as it appears to pilots flying at night, is the myriad of lights, centering at the city of Honolulu. Stretching away from this brightly illu-minated area is the sprinkling of lights which indicate the smaller towns and the Villages of the sugar and pineapple plantations. The main roads are clearly in-dicated by lines of light, which remind one of the heavy traffic surrounding any large city on the mainland. Here and there, scattered lights of automobiles can be seen as they move over the sur-rounding country on roads that are lightly traveled. Surrounding this en-tife light-infested area is the almost unverying blackness of the Pacific, brok-en only new and then by occasional marine traffic.

The problem involved in this "Blackout" was to make the Island of Oahu so dark that its blackness would blend into the blackness of the sea, thus giving to pilots of the "enemy" airplanes the illusion that the Island had vanished and that no thing lay shead except the vast-ness of the Pacific. Clearly, the op-portunities presented here for obtaining a complete and effective "Blackout" are unique. No lines of automobile traffic unique. No lines of automourie the outside blackout areas would point the 'way to cities, harbors and Army posts. Complete darkness would prevai

Complete darkness would prevail. As a result of extensive publicity and careful organization by military and civil authorities, plans were made for the "Blackout" to be accomplished effec-tively in a short period of time. Every effort for cooperation was made by the civilians. The main power switch was cut, extinguishing all street lights. Police cars, with dim blue headlights patrolled the streets, stopping all traf-fic and enforcing blackout restrictions. Boy Scouts alded the police in obtaining total darkness. The blackout signals, given by sirens, radio and blinking street lights, were effected while the airplanes were at set and approaching the Island. Immedi-

set and approaching the Island. Immedi-stely the "Blackout" plans went into ef-fect. The estimated time for the notice to reach all persons was six minutes, but within one minute after the initial signal was given over KGMB and KGU, the lo-

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cal radio stations, hardly a light could be seen in any direction. The could be seen in any direction. The city of Honolulu was especially effec-tive in this exercise, with all lights in the city, including automobile head-lights, being extinguished immediately after the signals were given. The Island of Oahu then appeared to be al-most uninhabited. Pilots of the air-planes reported that the very few re-maining lights, such as buoy markers and a very few obstruction lights, gave little aid in determining the position of the Island. They were certainly of They were certainly of of the Island.

no aid in locating objectives. After circling the Island for a pe-riod of approximately fifteen minutes, all airplanes dropped two flares each over several prearranged positions along the shore of the Island. Imme ately after release of the flares, a Immedi clear outline of the Island was visible to pilots and bombardiers. This advantto pilots and bombardiers. This advan age was short lived, however, as the anti-aircraft searchlights immediately came into play. It was a spectacular sight to see dozens of flares floating high over the Island and the beams of powerful searchlights searching the sky for airplanes. While little effort was actually made to detect the positions of all airplanes by searchlight beams, the problem as it was executed present-ed a realistic illustration of the part that must be played by military and civilian personnel alike in the event of an actual air raid. One of the local radio stations followed and broadcast the entire procedure carefully. It was not hard to visualize that the searchlights, the flares and the unseen planes, which could be heard so plainly above, might be a sort of dress rehearsal

for less friendly warfare. This "Blackout" problem was the first ever conducted in the Hawaiian Department. The enthusiasm and thoroughness with which the civilian population car-ried out their part of the program clearly indicated their interest and dependability in this all important means of air defense. Among the les-sons learned by this exercise were that the civilian normalition can be complete the civilian population can be completely relied upon to carry out their part in this passive defense measure and that there is no question about the ef-fectiveness of a "Blackout" as a protective means against air raids.

A PURSUITER'S VIEW OF OAHU'S "BLACKOUT"

Someone had snuffed out the moon when we taxied out to take off individually from Bellows Field, so we were thankful for the emergency lighting system being V-8096, A.C.

in operation - we could at least see our hands in front of our faces. Once off, though, and up a few thous-and feet, it was easy to see where one was going, especially with the mammoth Christmas tree that is Honolulu, glowing and tripkling in all its blue green and twinkling in all its blue, green, red, yellow and white splendor against the background of mountains. Added to that were smaller clusters of sparkling yellow facets of the many little towns yellow facets of the many fittle towns and villages; the red and yellow outline of Wheeler Field looking for all the world like a fat sunfish gorged to the gills and glaring back with its baleful green eyes; the lights of boats and houses encircling the island's shore; the cars on the busy highways and streets looking like comets with full spreading looking like comets with full spreading tails but traveling in reverse slow motion along their undulating paths; and finally the whirling dervises or revolv-ing navigation beacons. All of this uning navigation beacons. All of this un-der the luscious tropical moon glitters and sparkles in a setting of mottled shades of gray. But tonight - no moon! So the island shone forth as precious gems in a bed of deep black velvet. Gee! This is grand! Nice comfortable

formation, too. And see how the flight leader's plane is dimly silhouetted by the quivering tongues of blue flame sticking out of the cherry red maws of the exhaust stacks! Wonder if my plane similarly is silhouetted? Seems as

though we're stationary in space. Wow! What happened? Surely, I'm not flying upside down? If I am, then everyflying upside down? If the still fly-one else is too, because I'm still fly-ing "left wing" position in the "V." What he dreaming. Ouch! Nope, I'm not dreaming. Just a minute ago, though, I was dreamily contemplating the vast splendor displayed for my pleasure. Now its vanished and there is nothing except That's what you'd stygian darkness. That's what you'd call a blackout in every sense of the word.

And that, my friend, speaks volumes for the efficiency of Oahu's defense forces and for this whole-hearted cooperation of its civilian population.

Dropping our simulated bombs now will be "by guess and by gosh." Unless we aim them at those half dozen scattered specks of light resembling fireflies. If they aren't fireflies they must be light from habitation of some sort, and they're certainly something more definite to shoot at then that wast expanse of black shoot at than that vast expanse of black. I came over here to drop bombs and drop them I will!

In case of a real enemy instead of our simulating him, that is undoubtedly what would happen - if his neighbors didn't shoot him first in behalf of their own

safety for refusing to douse his lights. There go the flares! Lots of them. But all that light helps the searchlight batteries, too, in spotting their targets - the attacking planes. Which is

the signal for me to high-tail it for Wheeler Field before I have to start dodging antiaircraft shells. ----000----

SERGEANT CLARK AGAIN PROVES EQUAL TO THE EMERGENCY.

Sergeant Gilman H. Clark, of the Base Range Office, Post Operations Section, Langley Field, Va., was recently credited with his second rescue of a child from drowning.

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Late in the afternoon of June 1st, Sergeant Clark, who is married and full lives at Buckroe Beach, Va., was play ing on the shore with a small child Jul when he chanced to glance up and saw a small form being tossed about by the waves, a short distance from shore.

sensing that the bather might be the trouble, Sergeant Clark hurried out and brought the youngster to shore. Heur proved to be Jean Gilman, III, four 46 years old, of Richmond, who was visitwith his grandfather, Jean Gilman ing of Hampton Institute. Here is one of those coincidences of similarity in the names under rather dramatic etreansonces. When brought to shore the boy was unconscious, but he was quickly real vived.

Apparently the little fellow had one waded out beyond his depth and had been caught up by a wave. In all probability ity he would have lost his life had Sergeant Clark not been on hand.

Several years ago, Sergeant Clark saved from drowning a child who felt s off a pier at Marblehead, Mass of for that occasion the rescue was more drematic, Sergeant Clark leaping from the pier to bring the child to safety. -------

MASTER OF ARTS DEGREE FOR LT. DOWYER 100

First Lieut. William G. Bowyer, Air Corps, stationed at Kelly Field, received his degree of Master of Arts from St. Mary's University on June 2, 1939. The following appeared in the 1 St. Mary's University official publication:

"William G. Bowyer, M.A. Lieutenant in United States Air Corps and station-ed at Kelly Field. Received bachelor of science degree from West Foint in " 1929 and bachelor of arts degree from St. Mary's in 1930. Will be promoted to captaincy in June. Major for may ter's degree in history. Thesis, writ ten on 'Reminiscences from West Point', taken from the over 400 letters he wrote his mother while attending the United States Military Academy. A practical joker, humorous, very bril liant. Well read on current events and liant. Well read on current well versed in classical literature Uncle Sam needs more of this type "The News Letter Correspondent adds: "We have think so, too!" -6-

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The flying done by rated Air Corps pilots at Randolph Field, Texas, Turing the course of a year's operations, when reduced to a time total, assumed the proportions of an astronomical figure. This flying represents the most stren-uous type of airwork that the Air Corps pilot can be called on to perform. It includes daily individual hours of painstaking, precise demonstration and instruction in such maneuvers as acrobatics, spins and spin recoveries, in-strument flying, night flying, precision acquracy work in simulated forced landings, and routine accuracy work incident to the flight training curriculum. It includes the flying required by the War Department Training Directive. It in-cludes instruction in hooded instrument approaches and instrument landings.

tomorrow, and the day after, in an un-ending succession of performances, with perfection taking the place of par on the soors sheet and on the official record of the school. There is a mental

record of the school. There is a mental strain, a continuously keyed nervous alerthess, hervous fatigue. There is constant watchfulness. The cost in public treasure for the accomplishment of our mission here at Randolph Field is truly enormous, but the cost to the individual pilot engaged on this duty can only be read between the lines of the reports kept on file in our Flight Surgeon's Office.

"It is wearing work. "It is wearing work. "Let us consider the annual pilot ef-fort attendant on our last year's opera-tions. At the present writing, the rated pilot personnel of this station have flown during the Fiscal Year a to-tal of 58,149 hours. This figure of move them 58,000 milot hours is a small tal of 58,149 hours. This figure of more than 58,000 pilot hours is a small one compared with the total pilot time for this Field, including student pilots. The grand total of all pilot hours for the first eleven months reaches the stu-pendous figure of 139,351 hours. It would require an individual pilot, flying eight hours every day 365 days each year, a total of 20 years to equal the flight time accumulated by rated pilots of this station during the past eleven months. And then he would have to fly an additional 64 days actually to equal the rated pilot time figure. Here is another slant on the wealth of flight experience employed in carrying out the student training activities at this station. Fifty-four of the 175

pilots assigned to duty here have flown a total of 205,362 hours up to last month. The average total pilot time of each of these officers is 3,802 hours. Including observer's time, each of these pilots has spent an average of more than 4,000 hours in the air gaining the experience they use daily in student flight training at Randolph Field.

Here is one for the book: The total pilot time of all Air Corps pilots on duty at Randolph Field amounts to the The total neat total of 492,078 hours. Considering observer's time and pilot time in this grand aggregate of flight experi-ence, we find the impressive total of more than five hundred thousand hours of flight experience as the principle essence of the atmosphere in which the present Air Corps flight student grows and develops into the Air Corps pilot. A half million flying hours! A neat, round figure; a pretty sound foundation of experience upon which to operate the best flying school in the world.

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METEOROLOGY TEXT NEARS COMPLETION

Incorporating nearly three years' work, Lieut. D. Z. Zimmerman, aided by Lieut. T.S. Moorman, Post Weather Officers at Randolph Field, Texas, almost completed their textbook on Meteorology, which will be used to instruct Flying Cadets. Lieuts. A.J. Frolich and A.C. Dapprich also contributed to the book, as did the personnel of the Weather Office and Academic Department at Bandolph Field Academic Department at Randolph Field. More than 300 pages in length and con-taining about 200 illustrations and cloud pictures, the book will contain much of several previous texts which Lieut. Zimmerman, as Instructor of Meteorology at the Ground School at Randolph Field, has written before. The text is written especially for the pilot. It gives a practical explana-tion of the theory of Meteorology and stresses the importance and use of the study of weather to the pilot. The Post Print Shop is printing the book. -----

Under recent orders of the War Depart-Under recent orders of the War Depart-ment, three Air Corps officers, station-ed at Wright Field, Ohio, were detailed to duty as students to pursue a course of instruction in aeronautical engineer-ing at educational institutions, viz: Captain Alfred R. Maxwell at the Massa-chusetts Institute of Technology, Cam-bridge, Mass.; 1st Lieut. Frank N. Moyers at the California Institute of Technology, Fasadena, Calif.; and 1st Lieut. Edward J. Hale at the University of Michigan. Ann Arbor. Mich. of Michigan, Ann Arbor, Mich.

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CIVILIAN INSTRUCTORS TAKE COURSE OF INSTRUCTION AT PRIMARY FLYING SCHOOL

Seventy-two civilian instructors from Seventy-two civilian instructors from the nine flying schools throughout the country, which have been tentatively selected to participate in the expanded Air Corps pilot training program, report-ed at Randolph Field, Texas, on June 1st for a two-weeks' course of instruction in the Primery State Instruction in the Primary Stage Instructors School, prior to the inauguration of the plan on July 1st.

Meanwhile, twenty-three Randolph Field officers, tentatively scheduled to super-vise the training at the civilian

vise the training at the civilian schools, are standing by with their suit-cases packed, awaiting final orders as-signing them to the new duty. An additional detachment of civilian instructors, approximately the same size, will report to Randolph Field on June 15th for the second of the two courses of the Instructors' School. The Spartan School of Aeropautics, of Tulas, Okla. School of Aeronautics, of Tulsa, Okla. one of the schools tentatively selected for the Flying Cadet training, sent seventeen instructors for the two-weeks' course,

Other flying schools, and the number of instructors now in training, include:

Alabama Institute of Aeronautics, Tuscaloosa, Alabama, 6;

Chicago School of Aeronautics, 5; Dallas Aviation School, 14;

Grand Central Flying School, Los

Angeles, Calif., 3; Lincoln Airplane and Flying School, Lincoln, Neb., 8; Parks Air College, East St. Louis,

Ill., 7

Ryan School of Aeronautics, San Diego, Callf., 8; and Santa Maria School of Flying, Santa

Maria, Calif., 8. According to the present plans, at least two Air Corps officers experienced in Primary Stage work will be assigned to each of the nine civilian flying schools and, in addition, at least four enlisted men will be assigned to duty at each of the schools.

The flight training will be carried on by the civilian instructors, but under the supervision of Air Corps personnel. The Air Corps detachment will be in charge of the military training of the Flying Cadets and the general adminis-trative work in connection with the operation of the school from a military standpoint.

Primary training planes will be fer-ried to the various schools by the civilian instructors upon conclusion of the training period at Randolph Field. It is believed that at least one Air Corps officer will accompany each flight. ----000---

Upon the completion of his tour of ser-vice in the Philippines, Lieut. Colonel Ralph Royce is assigned to Hamilton Field, Callfornia.

NOTES ON THE FIRST PURSUIT GROUP

Major Willis R. Taylor, Commanding Officer of the 27th Pursuit Squadron, Selfridge Field, Mich.; Captain Venes E. Briggs and 1st Lieut. John W. Stoke Ist Pursuit Group Headquarters, Certain Paul B. Wurtsmith and Ist Lieut. To To Clayton E. Hughes, of the 17th Furbuit duty for three months as students at the Air Corps Tactical School, we do is a

The Group Transportation is doing a great deal of reconstruction and paint. ing of their garage and work shop 1411 cars and trucks are being repainted and complete overhauling is under way to as to put the transportation section in hav: Jo tip-top condition.

The 27th Pursuit Squadron has under-ne reorganization. The training gone reorganization. flight has been broken up and the new pilots assigned as members of the com-bat flights. A new training flight is organized in anticipation of ten new pilots, due to arrive on or about June **15th**. 1,20139,66

At this writing, 32 Reserve officers are taking the final examinations for commissions in the Regular Army

Since May 10th, ten enlisted men of the 94th Pursuit Squadron have been as camp Skeel, Oscoda, Michigan, to assist the permanent detachment there during aerial gunnery training. The officers participating in gunnery training word most fortunate, as weather conditions been that all pilots who participated made "Expert" on ground targets. The Squadron Adjutant, 2nd Lieut. Charles W. Stark, Jr., made special mention of, and highly complimented, the men of the Armament Section on their good work. have been favorable. The result has work.

Captain John F. Jones is the present Group Adjutant, Group Chemical Officer and Commanding Officer of Headquarters Squadron, replacing the former Adjutant, let Lieut. John N. Stone, and Captain James E. Briggs. Captain John Ref (1995) Hawkins is the Group Communications (1995) Hawkins is the Group Communications Officer, relieving 1st Lieut, Clarchte F. Hegy. Captain Hawkins is also Group School Officer and Group Operations F. Hegy, Captain Hawkins is also Gr School Officer and Group Operations ta:- <u>Ton</u>e i Officer. 101100100

Upon the termination of their four of duty in the Hawaiian Department, Major Ames S. Albro is assigned to Meroli Major Field, Calif.; Major William J. Hanton to Wright Field, O.; Captain James A. Ellison to Kelly Field, Texes; and Fat Lt. Chas. E. Wheatley, Jr., to Mitchel Fld. V-8096, A.C.

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ADDRESS OF COLONEL HERBERT A. WHITE, U.S. ARMY, RETIRED, Before Graduating Class (39-B), Kelly Field, May 25, 1939. ADONO 12

Said Marchine

Notice to the second se of color you have seen reflected. Let us hope it will be many years before the rainbow tints of promise change to the dull gray of the commonplace, or lose their bright hues in disappointments. In behalf of the friends and relatives gere today and also those others not here, it now becomes my duty and my pleas-sure to congratulate you on your gradua-tion in And this I do - not so much on having reached this day but on reaching it with so much credit to yourselves. This I can say with more earnestness than if I man speaking to a graduating class of the ordinary school. You have just completed a year of more grueling work than can probably be found in any other institution except the sister school of the Way at Benercola the New at Pensacola. Speaking from experience, I can state that no mental or physical weakling can finish the course at either of the old academies - West Point or Annapolis. But in each of those institutions the course is longer and there is not crowded into one brief year so, many complex elements as in the course you have completed today. It is not too wich to say that in winning your wings you have demonstrated an ability considscale of patting you on the backs - much as you desire it - but to emphasize the fact that now you have demonstrated your worth; hereafter the government will expect the maximum from you. And you may rest as-sured that "it won't be long now" before you will be given work in which it will become speedily apparent whether or not the Government's expectations are to be realized. There been asked by your Commanding Officer to speak to you on this occasion-a request so flattering that I feel a deep against of plagaure and self-setis-

a request so flattering that I feel a deep sense of pleasure and self-satis-faction; Fet I realize that youth lis-tens with dull ears to the advice of age, Seiny remarks will be brief. But IT I say but little, what I do say should the longer remain with you. And I am conceited enough to state that if from my faw remerks you get nothing that will my few remarks you get nothing that will be of use to you, it will not be on ac-count of deficiency in presentation but rather because of stupidity of reception. Should you come to me individually and ask me what I might have to say to you at guch a time, I should enumerate cer-

to be successful men. And this I shall do, speaking to you collectively; which you can take individually.

most people would mention, would be honesty. But it is so palpable that honesty should be above all other qual-ities that I shall assume you are hon-est. If your experience has not already demonstrated that honesty is the best policy, if you come from homes where you were not taught to be honest, what I could say would be no use to you. So we will assume honesty.

The first characteristic to which I shall direct your attention, therefore, is that of accuracy. Carelessness is the prime cause of failure in life. I will repeat this. Your work will never be of value to anyone else if it cannot be depended upon; and if of no value to others, it can be of no value to your-Life is too short to be conselves. tinually correcting mistakes. We have in my office a red-headed girl as head bookkeeper, who has been with us for twelve years. Once every quarter-year our books and accounts are gone over, checked and audited by a certified pub-For seven years we had lic accountant. the same accountant. One day he came to me and said, "For seven years I have been trying to catch your head bookkeeper in a mistake. The other day I found one and took it to her in great glee. She said, 'Wait a moment. Let's look at that.' In a few seconds I found I was wrong. She is the most fatally correct woman I ever saw." What do you think are the chances of that young woman losing her job. You could not pry her loose from our office, with our consent, with a crowbar. Years ago - about 30 - I ran up to St; Joe, Missouri, to see Lieut, Foulois and Lieut, Lahm take off in our first di-rigible. It was a horrible makeshift affair. I said to them, "Well, I hope you won't make any mistakes." One of them replied, and that was the first time I ever heard the expression so well known in the Air Corps, "Captain, we are in a business where we are not al-lowed even one mistake." Make it the first rule of your life to be accurate. Never be careless.

In the second place I shall ask you to industrious. We are living in a fast be industrious. age, a two-second world as it were. He who tarries will soon find himself outdistanced; he will never be able to catch up. There is no place in this modern world for the lazy man, for him who says "Wait a minute," for him who V-8096, A.C.

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who puts off till tomorrow what he can do today. In the rapidly changing world of today you men in the Air Corps occupy a front position. You can keep this position only by such industry as responds to a generous ambition.

As to the third factor of success, I shall mention self-reliance. As you become older you will find that men whose opinions are valuable are those who have their own opinions. Inasmuch as you have been in the Army for a year and have gained some conception of that the term discipline means, you may think I hardly know what I am talking about when I tell a man who has a Commanding Officer to have his own opinions. Now of course have his own opinions. Now, of course, the Army is only a team, and teamwork is the only kind of work that can win. Bu But what I mean is this: in the determination of a play, the estimate of the situation, opinions as to a course of action will vary. And from the varied opinions, choice must be made of the best. Until the choice is made, if your opinion is requested, give it boldly. After the decision is made, then individual opin-ion is dropped and averyone with his ion is dropped and everyone puts his shoulder to the wheel. Such is the proper conception of discipline and one that you will find as you grow older is the only one that controls in any successful human endeavor. * * *

While material success is not all there is to life, yet it is very necessary to other and higher ideals; without it those other finer things are most likely to be starved to death. I certainly am not going to tell you to run and jump on the "almighty dollar" as the root of all evil. On the contrary, my advice to you is to take a run and jump on it and hold on to it and copper as many as you can. If you feel you do not care for the "long green," you can pretty safely gamble that you will never have enough to make your back ache in carrying it around. Nobody is going to force it on you, and if yours is the general experience you will find it pretty hard to rake up. So do not be ashamed to take your salary, and do not be a fool and lose it through

want of frugality. All of this, of course, means: do not go into debt. And yet when I say that I must immediately make an exception. Such are the conditions in this modern world that no sooner than you reach your sta-tion you will find that efficiency requires the ownership of an automobile. At most posts a car is a necessity. But in purchasing an automobile, a second lieutenant does not require a Cadillac or a Rolls Royce. The possession of high-priced cars by second lieutenants is likely to lead to adverse comment -that he is living beyond his means, or that he must have married money. Reliable banks will arrange for payments on moderately priced cars, well within a reasonable disposition of your budgetary (Continued next column)

CONTRACTS FOR OBSERVATION AIRPLANES 5.J

The Hon. Louis Johnson, Assistant Sec retary of War, announced on June 15th than an award had been made for Observe TE: tion planes, as follows:

To the Stinson Aircraft Division of the Tayne,

Aviation Manufacturing Corp., With Mich., approximately \$1,500,000. To the Bellanca Aircraft Corporation. New Castle, Del., approximately. \$50**,**000.

the Ryan Aeronautical Co., San Diego Calif., approximately \$50,000 points To

This airplane is a short range Obser-

This airplane is a short range weser-vation type, particularly adapted for contact in Infantry liaison, and is suitable primarily for the work of **D2**. vision Aviation. The tendency in Corps and Observation planes has been toward larger size with greater speed. Such planes are unable to use the small fields usually found in the Division areas, and for there reasons the present Corps and Army plan has proven not essentially adapted to the work of the Infantry Divisionant the planes covered by this award are spel cially designed to supply the needs of the Infantry Division and to previde for aerial adjustment for the Artillery

It is a two-place, single-engine mono plane and has full radio equipment. It is equipped with flaps, steerable tail wheel, and other devices tending to im prove its maneuverability and performa ance.

allowance. And one more thought along economic lines. Take care of yourself and your family against rainy days. The safest and best investment for a young man is life insurance. As the sconmic world stands today, I recommend to each of you life insurance with an old reli-able company up to at least \$20,000. The are in a period of 3% interest. Almost any investment that will bring a great-er yield is in the field of speculation not in the field of investment. When you have carried your \$20,000 life insura-ance successfully, and want further in-vestment, then you can enter the in-vestment field. But enter this field with caution. Enter it as investors, not as speculators - and certainly not allowance. And economic lines. And one more thought along not as speculators - and certainly not as gamblers. Men with more time then you have to watch the stock market have been trying to beat it these hundred years. You have heard of the man who a been trying to used it and the man which years. You have heard of the man which broke the bank at Monte Carlo. Dur you have heard of it only in song. Journoo never saw such a man because there answer was one, and there never will be one if invest your money carefully and do not play the stock market until you beyer the leisure of retired age and itelia only when you have money to kees. Such Now I have mentioned only a faw wein the major virtues and I shall call your attention to only one of the minor ones.

attention to only one of the minor ones, V-8096, A.C.

-10-

and that is cheerfulness. This spirit of cheerfulness is not amiss in military infer though I realize that some commanding officers, from lowest to highest rank, are so singularly lacking in this element that their soberness degenerates finally into discourtesy that verges on insult. It was not necessary for one very high ranking general of Civil War fame to grow in his later days into such a condition that one could hardly enter his office without being insulted. The bord ifmighty hates a grouch, and in this particular I am glad he fashioned man in his own image. "So weave the spirit of cheerfulness into your lives like the minor chords of an opers which, subdued here and there as some grand symphony swells forth, yet run with their sweet undertones through the whole score." Knowing that life is brief, you should find the sunshine best - youth and outdoors, not the cloister and old age. And you should key your heart-strings to that concert pitch that vibrates to the happier side of things. That man best performs his duty here on earth who adds to the sum of human happiness. That man best answers the reason of his being, of whom it may be said "the world is happier, consequently better, for his having lived,"

So gather up the sunbeams lying all sloag your path and refract them undiminished through the medium of your own good nature, for the benefit of ethers round about you. Carry the smile of cheerfulness throughout your daily lives, particularly in your homes and personal contacts. And so, smiling, pass on through life so that when your final stallspin does come, you may still be smiling as you join those gone before, incom "those loftier far reaching heights where bloom the lilies of eternal peace and where shine mid-summer suns on grasay slopes and green."

sub more sume mu-sumer sum on grasay slopes and green." "Accuracy, industry, self-reliance, so-"Friety, frugality and cheerfulness. May "Bood luck attend each one of you. May "the brightest days of your past be the darkest days of your future.

AVIATION EXHIBIT AT NEW YORK WORLD'S FAIR By the Mitchel Field Correspondent

When you go to the New York World's Wair this summer, don't forget to drop around to inspect the Air Corps Exhibit as part of the National Defense Display in the Aviation Building. This Exhibit confists of three airplanes and other "Mtems, ench as models of Army aircraft. pictures, and items of aeronautical and millitary dress and equipment. Major Albert W. Stevens, Air Corps, of aerial photographic and Stratosphere Flight fame, is in charge of the Air Corps displase, which was made under arrangements with the U.S. Aviation Exhibit, Inc.

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The Air Base at Mitchel Field has contributed a total of six enlisted men as guide-attendants to be on duty for the purpose of explaining exhibits, answering questions, and to disseminate information. These men were chosen by Major Stevens, five being selected from the 97th Observation Squadron (Corps and Army), and one from the 2nd Air Base Squadron. They are: Master Sergeant Joseph M. Cates, Technical Sergeant Myron Roeske, Staff Sergeant William J. McDonald, Sergeant Charles R. Yoder, and Corporals Robert G. Hall and Andrew Yancy, Jr. Authority for the detail emanated from The Adjutant General's Office, and

Authority for the detail emanated from The Adjutant General's Office, and subsequent indorsements directed that personnel recommended for the detail "be particularly high type men, capable of answering questions on mechanical subjects, and of the appearance, education and general politeness as to make them suitable for civilian contact." It was pointed out that the Navy Department had a similar exhibit in the same building, and had provided six men of "exceptionally good appearance, education, and of comparatively high rank."

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FIELD TRAINING BY 31ST BOMB, SQUADRON

The 31st Bombardment Squadron recently completed its annual two weeks field training, the entire time being The first echelon, devoted to gunnery. devoted to guinnery. The lirst echelon, ground, departed from Hickam Field for Bellows Field, Waimanalo, T.H., at 0600 on April 10th. Sixty enlisted men and one officer comprised this unit. The remainder of the Squadron, 7 officers and 59 enlisted men, went by air in three B-18 simplenes. Three trins were three B-18 airplanes. Three trips required to complete the movement. Three trips were Due to some staff misunderstanding with Jupiter Pluvius, the air contingent was delayed to a considerable extent, and the last airplane did not arrive at What little Bellows Field until 1405. portion of the mat at Hickam Field that could be seen at scheduled time of take-off resembled a lake of no mean dimension.

The movement was completed, and J. Pluvius decided he might as well cooperate, which he did in admirable style, as_the elements caused no more trouble.

The second day of the two weeks' period found all guns going full tilt. Preliminary TR 440-40 Gunnery, ground machine gunnery on the 1000-inch ramge, as well as pistol practice, caused considerable earache, as well as poor fishing. All officers and men assigned completed firing of the pistol during the first week of the period. Movement to Hickam Field started at 0700, April 22nd, and the last contingent arrived there at 1005, ready to resume the usual garrison duties. -11and that is cheerfulness. This spirit of cheerfulness is not amiss in military lafe; though I realize that some commanding afficers, from lowest to highest rank, are so singularly lacking in this element that their soberness degenerates finally into discourtesy that verges on insuit. It was not necessary for one very high ranking general of Civil War fame to grow in his later days into such a condition that one could hardly enter his office without being insulted. The bord itmighty hates a grouch, and in this particular I am glad he fashioned man in his own image. "So weave the spirit of cheerfulness into your lives like the mingr chords of an opera which, subdued here and there as some grand symphony swells forth, yet run with their sweet undertones through the whole score." Knowing that life is brief, you should find the sunshine best - youth and outdoors, not the cloister and old age. And you should key your heart-strings to that concert pitch that vibrates to the happier side of things. That man best performs his duty here on earth who adds to ihe sum of human happiness. That man best answers the reason of his being, of whom it may be said "the world is happier, consequently better, for his having lived."

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WHY NOT SPECIALIZATION IN THE AIR CORPS?

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There was published in the May 15, There was published in the May 15, 1939, issue of the Air Corps News Letter an article by Staff Sergeant Oliver E. King, Air Corps, setting forth his per-sonal views regarding the present main-tenance system of the Air Corps and his recommendations on the engineering set-up for an organization. In response to the invitation of the News Letter for the views of other ex-perienced maintenance and engineering

perfenced maintenance and engineering personnel of the Air Corps on the sub-ject matter under discussion, Staff Ser-geant Erik W. Lindhe, Air Corps, of Hamilton Field, Calif., submitted the following: "Since 1927, I have been an Organiza-

tion, Group, and Base Technical Inspector at various Air Corps stations, prior to which I was a crew chief, dating back to 1923. Before then I had some experi-ence with civilian aviation. 50 much for my experience and the au-

thenticity of the information upon which I base my views.

I do not believe in specialization to a degree quite as high as mentioned by Sergeant King. According to Sergeant King, there should be specialized Instru-ment, Carburetion, Ignition, Airplane and Engine Mechanics in <u>each organiza-tion</u> This is, for quite obvious reas-onen-not feasible.

an airplane during an extended cross-country flight, and in case of malfunc-tioning of any part or assembly serious enough to cause a forced landing, the crew would not be able to remedy the fect and continue the flight. This fect and continue the flight. This would, of course, be due to the 'special-ization' at the home station. Lack of training to become an all-around mechanic mould then certainly be evident. Sure, modern aircraft is more 'Gadgetized! than were the Jennies and DH's of bygone days, but we still have an interof wings, fuselage, empennage, and landing gear. Further, we have a much more efficient system of conveying instruc-tions to the mechanic than we ever have had in the Air Corps.

As an example, see Technical Order Q1-40Q-2. Definite procedures are laid down on how to disassemble, inspect and reassemble each major assembly of the B-18 aircraft. Other handbooks of instruction on Engines, Engine Accessories, Instruments, and other major items are also conveniently located in 'G' and 'H' files where anyone able to read and with some experience as an aircraft mechanic can gather sufficient knowledge to avoid megialization and its obvious hazard to sircraft maintenance. Sergesht King points out that we al-ready have some degree of specialization

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in the case of photography, Armament and radio. Certainly! But, take this equipment and its component parts out of an airplane and we still have, aerodynamically, a complete airplane. But remove or render useless a carburgtor and see what happens. I agree with Sergeant King on his description of Flight, Hangar, or Crew Chiefs running themselves'ragged' up and down the line in quest of supplies. But I believe that this, even with its many inconveni ences, is a better system than for a 'Specialist' to tear into a Magneto, Generator, or any other engine or air-craft part only to find it damaged beyond repair or requiring unobtainable parts. 'Let the depot do it' is a good alogan in this case.

As to Sergeant King's idea of a 'setup' for an engineering department I would like to quote, then analyze each paragraph:

'(1) A competent Engineering Officer nd assistant.' (Excellent). and assistant.

(2) A competent Organization Inspector with as many assistants as is deem-ed necessary, the inspector to function directly under the organization commander.

(One inspector should suffice, and he should be responsible directly to the Engineering Officer instead of to the organization commander, inasmuch as the organization commanding officers are at the present time older officers with varying degrees of engineering experi-ence, but the majority with no experience in the case of modern aircraft).

'(3) Competent "trouble shooters" for airplanes, engines, instruments, Such men would be invaluable to etc. an organization if they knew their

business.' (The trouble shooting' should be done by the crew chief and his assistants as a method of routine training).

(4) A competent engineering clerk. (Yes, very much so!).

'(5) A competent crew of airplane mechanics with competent foremen. '

(6) A competent crew of engine mechanics with competent foremen. ' '(?) At least three competent men on

carburetors, ignition, and electrical systems.

These three groups should be combined and form the regular aircraft crews).

'(8) At least three competent instrument mechanics.'

(No. One instrument mechanic should suffice, but is not even necessary. All Instrument Maintenance should be done by the Base Instrument Section, directly under the Base Engineering Officer.

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The equipment necessary to maintain such instruments as A-2 Pilots, other Gyro Instruments, and Bomb sights are far too elaborate to be included in squadron equipment).

A crew of "Cleaners' with a com-·(9) petent foreman, whose sole mission would be to keep airplanes, engines, hangars, and hangar equipment clean at all times.'

(I believe this crew would clash with the regular aircraft crews).

10) A sufficient number of flight mechanics who could be pooled and one or more of whom would be required to accompany, in their turn, each and every

flight originating in the organization.' (This group should constitute the regular aircraft crews).

In my opinion, a regular Maintenance Section should be organized in each squadron. This would prevent a weary crew from, after coming in from a long flight in the afternoon, turning to a 40 or 80-hour inspection that night in order to have the aircraft on the line for an early schedule the next day. This practice does not tend to increase either morale or efficiency.

This Maintenance Section should accomplish all inspections, engine changes,

and Technical Order compliance. The first phase would be to thoroughly clean the entire airplane, after which all breakage and malfunctioning equipment should be removed for replacement or repair. While waiting for these parts, the regular inspections should be accomplished,

Upon completion, the airplane should be thoroughly checked by the organiza-tion inspector, at which time the Forms 60A and B, 61 and 41 should also be checked against the condition of the airplane.

This crew should be rotated in such a manner as to include all the Engineering personnel, less, of course, the clerks. In size it should be commensurate

with the type and number of aircraft or-dinarily used in the organization. In conclusion, I would like to state that, in my opinion, Sergeant King de-serves a lot of credit for starting this 'Round Table' discussion on a subject of such great interest to us, who are in-volved in it every day of our lives."

Ed. Note: Appreciation is expressed to Staff Sergeant Lindhe for setting forth his ideas on a subject which, to quote his words, is "of such great interest to us, who are involved in it every day of our lives," and for starting the ball a roll-ing on a round table discussion thereon. Other experienced maintenance and engineering personnel in the Air Corps who may have anything to add to the views already expressed are invited to forward comments. -14-

FLYING STUDENTS MAROONED IN COVERALLS

Twenty-Iour and Shadolph Field, Texas, were marconed at Corpus Christi, Texas, recently when weather forced a postpone ment of their return flight to the home airdrome. They made a striking picture at the Nueces Hotel (where they spent) the nights) garbed in coverally. Twenty-four student officers and Fly-ing Cadets of Randolph Field, Texas, top two nights) garbed in coveralls. For amusement, when the weather turned hopeless for the second night, the ma-jority rode on the ferris wheel and the jority rode on the ferris wheel and snap-the-whip at North Beach Concession more reached the conclusion that snap-the-whip at North Beach Concession Park. They reached the conclusion that the concessions were quite tame that importance of such small articles as handkerchiefs, combs, razors, and other necessities was rather forcibly impress. ed upon the group, especially since financial preparation had been neglect ed. However, quite a number returned with \$1.95 golf suits to keep as memory tos (after the first washing) of the Corpus Christi trip. Corpus Christi trip. "trains!"

Anent the Corpus Christi trip, one and member of the Detachment was quite the changrined when, after naving lost his course, he buzzed a sign to orient himself, only to read this inscription; "Eat Farina Oats." _--000----

RETIREMENTS AND PROMOTIONS OF LIBOUR SUCCEMENTS CORPS NONCOMMISSIONED OFFICERS. JOUR BAL

Effective May 31, 1939, the following noncommissioned officers of the Air sin Corps were retired from active service Master Sergeant James C. Arnold 1 - 0.00 Maxwell Field, Ala.

Master Sergeant George W. Riffill

March Field, Calif.

Master Sergeant John Tassock, Barksdale Field, La. 1137.

Master Sergeant Don W. Whiteside March Field, Calif. Technical Sergeant Lyle Ball, March

Field, Calif. signer i so

The following Technical Sergeants of the Air Corps were promoted to the spin grade of Master Sergeant, Air Corps ton the dates indicated:

George S. Lane, Selfridge Field, Mich.

John L. Giles, Hamilton Field, Gall? Cecil F. Renno, Hawaiian Department

John E. Fox, Langley Field, Ve., on June 3, 1939.

The following Staff Sergeants of the Air Corps were promoted to the grade of Technical Sergeant, Air Corps, the Linco first four on June 1st and the fast til named on June 3rd, 1939:

Albert Maslach and Jesse W. Wader wol Hawaiian Department.

Wm. R. Tanner, Randolph Field, Texas Wm. C. Neff, Kelly Field, Texas. James J. Murphy, Panama Canal Dep't.

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The 18th Pursuit Group, under the com-mend of Lieut. Colonel William E. Lynd, mind of Lieut. Colonel William E. Lynd, Air Corps, participated in an interest-ing day of this Spring's Hawaiian Depart-ment Maneuvers. Departing at 0600 from Wheater Field, the Group landed at Bellows Field, one of the auxiliary land-ing fields on Oahu, and prepared to act as enery eviation, simulating attacks on the installations on the island. During the day, missions were run off attacking the anti-aircraft artillery positions by dive bombing. These at-tacks were made difficult of accomplish-ment because of the excellent camouflage adopted by the anti-aircraft artillery. The 18th Air Base Squadron was given the mission of installing field lighting equipment on Bellows Field in prepara-tion for the night take-off to be made by the Group in its participation in the "Blackout" of Oahu. Portable field lights were used to illuminate the run-

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lights were used to illuminate the run-Next the second second

could have been cut down without detractcould have been cut down without detract-ing from safe operating principles. Ren-dezvousing southeast of Diamond Head at 3,000 feet, the Group was off Honolulu when the signal was given for the black-out. The lights of Fort Kamehameha were the first to go out. Judging by the speed with which the area was darkened, it appeared as though someone had pulled the big switch. This is probably due to the realization on the part of our Coast Renthe realization on the part of our Coast Artillery brethren of the seriousness of indicating bombardment targets by outlights both around the second giant curtain was suddenly lowered, plunging the entire valley into pitch-black darkness. Within a minute and a half, I should judge, the entire area was in complete darkness, with only a very few lights showing, and these in

distant, remote places. So complete was the "Blackout," that it was only with difficulty that one could orient himself, and then with very little accuracy. This was caused in little accuracy. This was caused in part by the weather, which was poor, with low ceiling and a drizzling rain falling the while.

At a given time flares were simultaneously released at points around the

Island, and all anti-aircraft search-lights went into action. This luminous display lighted up the entire Island both above, in and below the overcast, causing the scene to be instantly changed from one of total darkness to one of the eeriest kind imaginable. area was illuminated so brilliantly The that a newspaper could have been read without difficulty. Impressed on everyone was the great number of anti-air -craft searchlights employed in the defense of Oahu. These lights were dis-persed in their tactical locations around the Island and shot their pencils of light against the clouds, causing the attacking airplanes to stand out in a startling manner.

The dropping of flares was the signal for the termination of the "Blackout. so the Group peeled off and landed at Wheeler Field. Everyone was mighty glad to get back on the ground again, as typically Hawaiian liquid sunshine, or maybe it should be moonshine, had started to come down in the form of rain.

Great credit is due the civic organi-zations for putting this "Blackout" across, for there is no doubt that it was a complete success. This was evidenced by the vigilance shown by one Japanese boy scout in Wahiawa, that thriving suburb of Schofield Barracks. His particular job was to check on the lights on his street. Seeing a light in the temple, he rushed in and con-fronted the aged pricet. fronted the aged priest. The priest informed him that the light was an eternal one which burned in the temple The scout insisted that continuously. all lights must go out for the duration of the "Blackout," and out it went.

SECOND BOMBARDMENT GROUP OFFICERS GO TO AIR CORPS TACTICAL SCHOOL.

The following officers of the Second Bombardment Group, Langley Field, Va., were detailed for a course of instruction at the Air Corps Tactical School, Maxwell Field, Ala., effective June 1, 1939:

Major David R. Stinson, Hq. and Hq. Squadron, Group S-1.

96th Squadron,

Major Cornelius E. O'Connor, Hq. and Hq. Squadron, Group S-4. Captain Darr H. Alkire, 96th Squadron Airplane Commander B-17 #61. Captain Ford J. Lauer, 20th Squadron, Airplane Commander B-17 #50. Captain Ralph E. Koon, 20th Squadron,

Squadron S-3.

Captain Edwin L. Tucker, 49th Squad-ron, Navigator, B-17 #81. (Continued on Page 18).

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CLASS 39-C REPORTS AT ADVANCED FLYING SCHOOL

Class 39-C reported at the Air Corps Advanced Flying School, Kelly Field, Texas, on June 1, 1939. The class con-sists of 76 Regular Army officers (3 from sists of 76 Regular Army officers (3from the Corps of Engineers; 4, Signal Corps; 9, Cavalry; 16, Field Artillery; 12, Coast Artillery; 32, Infantry); 3 Nation-al Guard officers (one from the Arkansas National Guard and two from the Washing-ton National Guard); and 106 Flying Cadets, Air Corps. It is by far the largest class to report for training at Kelly Field in the history of the Air Kelly Field in the history of the Air

Corps Training Center. Forty-one Flying Cadets hold Reserve commissions in other arms of the service. Class 39-C is the first class to re-

port at Kelly Field since specialized training in Attack, Bombardment, Obser-vation and Pursuit has been abolished. The 185 students comprising this Class

are enumerated below, as follows:

REGULAR ARMY OFFICERS

COLDS OI WHEIDERS
Breitweiser, Robert Allen Colo.
Preuss, Paul Theodore Seymour, Ind.
Kieffer, William Brett Jackson Hts., L.I., N.Y.
Signal Corps
Bosch, George Arthur Mission Beach, Calif.
Sights, Albert Peterson, Jr. Clinton, Okla.
Tarver, Benjamin M., Jr. Lookout Mtn., Tenn.
Snider, Robert Lee Texas

Cavalry

Packard, Ashley Burdett	Douglas, Ariz.
Bayer, Merrick	Washington, D.C.
Brett, William Peek	Statesboro, Ga.
Sherburne, Charles Winfield	Evanston, Ill.
Knox, Omer Ellsworth	Lyons, Kans.
Rulkoetter, Robert William	St. Louis, Mo.
Lemon, Maurice Raymond	Carrizozo, N.M.
Chavasse, Nicholas Horace	Henderson, N.C.
Kincaid, William Keith	Middleport, Chio

Field Artillery

Scaer, William Kenneth	Colo.
Zaiser, Robert Alan	Burlington, Iowa
Ryan, John Dale	Cherokee, Iowa
Huglin, Henry Charles	Fairfield, Iowa
McBride, Robert Carleton	Wichita, Kans.
Cairnes, William Denton	Ma.
Blanchard, William Hugh	Chelses, Mass.
Sturdivant, Frank Fleasant	
Saunders, Donald Ward	Athens, N.Y.
Hopson, John Robert	N.Y.
Krug, Leland Oscar	Rochester, N.Y.
Wernberg, Laurence E.	Sea Cliff, L.I., N.Y.
Moorman, John Dean	Idabel, Okla.
Coira, Louis Edward	Lock Haven, Pa.
Polhamus, Douglas Clinton	Berryville, Va.
Taber, Morris Frederick	Scattle, Wash.
Coast Artille	ry Corps
Hawes, Philip Robert	Los Angeles, Calif.
Spangler, John Herbert	Briggsdale, Colo.
Herboth, John Bennet, Jr.	Glen Ellyn, Ill.
Zoller, Virgil Lee	Marion, Ill.

Morrison, Harry Cornelius Ridgefield Park, N.J.

Duncan, Carter Eugene

Buffalg. N.T Barnard, Harvey P., Jr. Spicer, Prescott Miner Poughkeepsie book. Buckland, Sherwood Ernest Johnson, Lloyd Earl, Jr. Woodhayer, N. 1 Royersford Pe Perkins, Nicholas Tate ant start and Anderson, Glenn Preston, Jr. Marion PVe try r. Luverne Als Fort Snith Ark Helens, Ark Washington, J. Loise, Jak r. Fort Meynan, In Hopkinsville, Ky Jannings, Le Shrewsport, Le Minnespelis, Mis Pass Christian, Mis Mount Holly, N. Batevis, N. Buttaler, N. Ke Reidsville, N. Chitty, 19160 Infantry Reddoch, Joseph Claude, Jr. Miles, Vincent Morgan, Jr. Young, Charles Mathes Brabson, Joe Reese, Jr. Kenzie, Howard Doan Hardison, Felix Moses Sisco, Gibson Emerson, Jr. Crowder, Robert Thomas Hoisington, Gregory, Jr. Pardue, Littleton James Russell, Gabriel Caldwell Commer, Caster Feul Palmer, Shelby Young, Jr. Coleman. John Boddie Macomber, Clifford Field Frederick, Wm. Henry, Jr. Rhymes, James Willis Ford, Wallace Stafford Harrison, Bertram Cowgill York, Edward Joseph Lister, Ralph Brown Pendleton, Alexander Bruce Reidsville. N. Rogner, Harris Edward Masury, Oh Portland, Or Luper, James Rhea Lipps, Milton Edward Defart, Edward George Neff, William Folwell Dean, Fred Murray Salen, tor , Trici P Star 102 Knozville, fen Union Oity, Ien Isbell, James Horace Wallace, Hugh Douglas Wells, Joseph Breece Fort Worth fex Granti V Racina Wi Bruton, Robert John Note: All of the above-named students are second lieutenants who graduated from the United States Military Academy, West Boint, New York, on June 14, 1938. 531b . 7 .

BALL, SLARS

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NATIONAL GUARD	OFFICIERS . ave I im
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FLYING CAD	ETS statenial
Wilson, William Driver-3	Gadetien, Al
Caton, Curtis Eugene-4	Montgomery, Al.
Cook, Earl Brown-3a	Montgomery, Al
Bowen, Ferrell Lemar-3	Tallessee, Al
Ainsworth, Woodrow L.	El Dorado Ar
Leidy, Charles Allison, Jr.	Little Jock, Ar
Tedder, Irby Velle	Little Rook, Ar
Tedder, Irby Wille	
Batchelor, Jack Franklyn	Sheridan. Ar
Thompson, Joe Clyde	Dermotia Ar
Rains, Lawrence Fossitt	Blythe Cali
Seeburger, Francis F5	Crookett, Cali
Close, Winton Ralph-3a	Los Angeles, Cali
Ehret, Roland Christopher	Los Angeles notelli
Cofield, Curtis Heath	Los Angeles notili
Merritt, Ralph L., Jr6	Sacremento sydali:
Albin, George Leuis	San Diego, Gali

San Francisco, Cali

Ruggles, John Howard

Hall, Floyd D. McCorkle, John Dittrich, Robert Ivan Pratt, Ogden Nelson-la Wood George Alexander-la Newton, Preston Carnall Renshaw, Claude Downer-3a Anderson, Geo. Fred'k-7 Abderson, Geo. Fred'k-7 Strong, William Dupont Chitty, Charles Dean, Jr. Moore, Malcolm Arnot Sapp, Russell Hale Vincent Oviatt, Karl Eugene Bobinson, Charles Gordon Nowak, Albert C. Sullivan, Frank Edward Noltanski, Thaddeus Lewis-6 Lang, William Howard-4a . Stevenson, Roger Armstrong Roberts, Albert Jay, Jr. Postleweite, Robert Dean-4a Sheat, James Howard Handes, Horace Albert Warren, Clarence Negley, Jr. Bassett, Charles Edward-3a Scheder, Paul Constantine-1 Wray, Robert Stephen Teffingwell, Charles Edwin-la Myers; Edward Payson-5a Somitaio, Charles David Crow, Roger McKee-4a Fairfield,Loran Redford-1a Moore: Alvan Neavitt-la Jensen, Walter Armstrong Meffat, William Hugh 17 T • 3 T Stanton, Robert Louis-la Strathern, William Ellis . Lee, James Lyle Barns, James Harrison-1 Martin, Bertram Claude - 73 Å Watkins, Howard Elroy -Neal, Robert Ellis: Herbert Sargent Lindberg, Allen Selby, David Collins-la Lynnton, Keith Xavier Wilson, Keith Streeter-5a Bennink, Donald Thomas Mullen, Marcus Alfred-3 Harsh, Forrest Rutherford-la Stenglein, Joseph Arthur Walmsley, William Williams Passage, John Thompson Moder, Warren Sanford Hoffman, Frederic Grant Woolery, Edward Raymond Fomeroy, Don Allen, Jr. -6 Hewley, John Robert Hendriz, James Murry Hendriz, James Murry Kidd, John Leslie Hoffman, Ward Gereld Burhus, John Leonard-la Bubbard, Edward Francis-3a Portaz, Stuart Moss Lifeorter, Stuart Moss Lifeorter, Stuart Moss Bennett, Donald K.-la Lifeonit, Pernon Christian Filer, William Alfred . C. C. C. L. L.

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Boulder, Colo. Pueblo, Colo. Bridgeport, Conn. Hartford, Conn. Wallingford, Conn. Washington, D.C. Gainesville, Ma. Serasota, Ma. Blakely, Ga. Fort Gaines, Ga. Kolos, Kauai, T.H. Nampa, Idaho Preston, Idaho Chempaign, Ill. Chicago, Ill. Chicago, Ill. Chicago, Ill. Gelesburg, Ill. Lebanon, Ill. Ottama, Ill. Palestine, Ill. Springfield, Ill. Armington, Ill. Indianapolis, Ind. Indianepolis, Ind. Leporte, Ind. Fort Wayne, Ind. Cedar Rapids, Iowa Iowa City, Iowa North Liberty, Iowa Postville, Iowa Postville, Iowa Fredonia, Kans. South Portland, Me. Queen Anne, Md. Newton Center, Mass. Birmingham, Mich. Leonard, Mich. St. Joseph, Mich. Gilbert, Minn. Carlton, Minn. Boonville, Mo. Harlowton, Mont. Grant, Neb. Rochester, N.H. Elizabeth, N.J. Westfield, N.J. Anthony, N.M. Central, N.M. Bolivar, N.Y. Chautauqua, N.Y. New Fochelle, N.Y. New York, N.Y. Seneca Falls, N.Y. New York, N.Y. Charlotte, N.C. Hickory, N.C. Alliance, Ohio Columbus, Ohio Lakewood, Ohio Toledo, Ohio Trotwood, Ohio Bristow, Okla. Claremore, Okla. Bufaula, Okla. Frederick, Okla. Muskegee, Okla. Nowata, Okla. Corvallis, Ore. Lapine, Ore. Ore. Kingston, Pa. Pa.

State College, Pa. Reed, James Franklin Ola, George Joseph Windber, Pa. Wysox, Pa. Providence, R.I. Piollet, Victor Emile Carragher, Francis Dean-la Clinkscales, Theodore Ross Greenville, S.C. Versen, Lindsey Hartford-la, Little River, S.C. Platte, S.D. Bristol, Tenn. Etowah, Tenn. Franklin, Tenn. Lien, James Orin-3a McConnell, Landon Edward Stone, Rolle Edward, Jr. Kinnard, Claiborne H., Jr. Davis, Richard Archer, Jr. Springfield, Tenn. Sanders, Richard Condie-3a, Saltiake City, Utah Charlottesville, Va. Wertenbeker, Geo. L., Jr. Leckey, John Herbert, Jr.-5a Norfolk, Va. McElroy, Stephen Devenport-4 Herbes, Edward Richardson, John L.-3a Wood, Frank Lee, Jr.-1a Upperville, Va. Milwaukee, Wis. Eau Claire, Wis. Laramie, Wyo,

Key: 1 - 1st Lieut., Infantry Reserve 1a- 2nd Lieut., Infantry Reserve 2 - 2nd Lieut., Cavalry Reserve 1 - Lieut. Field Artillery 3 - 1st Lieut., Field Artillery Reserve 3a- 2nd Lieut., Field Artillery Reserve 4 - 1st Lieut., Coast Artillery Reserve 4a- 2nd Lieut., Coast Artillery Reserve 5 - 1st Lt., Corps Engineers Reserve 5a - 2nd Lt., Corps of Engineers Reserve 6 - 1st Lieut., Signal Corps Reserve 6a- 2nd Lieut., Signal Corps Reserve 7 - 2nd Lieut., Chemical Warfare Reserve

PLANE CRASH FATAL TO KELLY FIELD INSTRUCTOR

Second Lieut. James Marion Jones, 26, flying instructor at the Advanced Flying School, Kelly Field, Texas, met instant death on May 21st, when his P-12 Fursuit plane, which was believed to have been in a spin, crashed in the vicinity of the American Legion Memorial Highway, about eight miles north of San Antonio.

Lieut. Jones had been putting in some time in the plane, preparatory to its being flown by students. At the time of the crash he had been in the air about 45 minutes, and it was previously flown by another instructor for an hour and a half.

According to civilians witnessing the crash, the plane appeared to have been in a spin prior to the crash.

Funeral services were conducted on May 22nd at the Charles Hanovan Funeral Home by Chaplain John W. Westerman, of Randolph Field, the Commandant, Staff, and members of the Faculty being in attendance. Following the services, the remains of Lieut. Jones were escorted to Temple, Texas, by 2nd Lieut. Roy W. Osborn, a fellow instructor, where Lieut. Jones' father - Mr. C.H. Jones - resides.

Lieut. Jones was graduated from Texas A.& M. College in 1935, and the following year gradu-ated from Kelly Field. He was then assigned to duty at Mitchel Field, L.I., New York, and subsequently to Langley Field, Va. On Novem-ber 16, 1938, he was transferred to Kelly Field. He was a native of Bastrop, Texas.

The deep sympathy of the Air Corps is extended to the bereaved relatives of the deceased young officer.

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Under date of June 14, 1939, the Hon. Louis Johnson, Assistant Secretary of War, announced the purchase of primary training planes for the Army Air Corps from the St. Louis Aircraft Corporation, St. Louis, Mo., at a total cost of \$139,419.00. The airplanes being processed under this

The airplanes being procured under this contract are to be given the Army designation YPT-15 and are the same as the St. Louis Aircraft Corporation PT-1W. They are powered with the Wright Aeronautical Engine (Army designation R-760) of 225 horsepower, which in turn is equipped with a Hamilton standard one piece, fixed blade, fixed pitch propeller. These single-engined, two-place biplanes of metal construction and fabric covered, are equipped with steerable tail wheels and fixed cantilever type landing gear. They are capable of attaining a speed of approximately 125 miles per hour at sea level. The cockpits are arranged in tandem, with complete sets of controls and instruments in each cockpit, in order that both instructor and student may have full control in either cockpit. As this is a student training plane, it is not equipped with radio or armament.

This plane is identical with the commercial type manufactured by this company, and in making purchases of this type the War Department thus is able to make savings both in time and money. In addition, such procedure aids in developing a greater source of supply in time of emergency.

CLOSING OF AIR CORPS SONG CONTEST

According to an announcement by Major General Henry H. Arnold, Chief of the Air Corps, June 15, 1939, was set as the closing date for the Air Corps Song Contest. Sponsored by LIBERTY MAGAZINE, this contest has been in force for the past year, during which period the Air Corps received approximately 400 entries, all of which have been carefully reviewed by the Air Corps Advisory Song Committee. From the number received, four songs have been selected, and these will again be reviewed in an effort to find one which may be found suitable for adoption as the official Army Air Corps Song.

Song. All entries which have not been considered suitable are being returned to the composers with a notification to that effect. In the event that a song is chosen for the award, it is hoped to make the announcement by October 1,1939.

Lieut. Colonel George E. Lovell, Jr., Air Corps, was promoted to the grade of Colonel (temporary) as of June 1, 1939.

1ST OBSERVATION SODN. IN FIELD MANEUVERS

The 1st Observation Squadron spent the period from May 24th to June 5th on field maneuvers with the 14th Brigade (reinforced) of the 7th Corps Area at Camp McCoy, Wisconsin. The present landing field at Camp McCoy being too small for the operation of the 0-47A's, the Squadron based at the Pfafflin Airport at LaCrosse, Wis.

Nine officers and sixty enlisted men from Marshall Field, Fort Riley, Kansas participated in the maneuvers. Seven Reserve officers were left at home to struggle with their examinations for Regular commissions. Lack of ground transportation necessitated transporting over half of the personnel by air. This was accomplished in two air echelons, the ground echelon completing the movement.

In the last four days of the period, a free maneuver was held with the troops of the 6th Corps Area against the troops of the 7th Corps Area. The 15th Observation Squadron from Scott Field, Ill., based at Wisconsin Rapids, Wis., furnished Observation Aviation for the 6th Corps Area troops.

The autogyro, piloted by 2nd Lieuts. V.R. Haugen and G.H. Snyder, Air Corps, was used extensively throughout the maneuver. Its greatest use was for command reconnaissance missions, especi ally locating and reporting the action and disposition of friendly troops that had lost contact with the Command Post.

2nd Bomb. Group Officers to Tact. Schoo (Continued from Page 15)

lst Lieut. Curtis E. LeMay, 49th
Squadron, Navigator B-17 #80.
lst Lieut. Richard S. Freeman, 49th
Squadron, Navigator B-15 #89.
lst Lieut. Fugene P. Mussett, Hqrs.
and Hqrs. Squadron, Group Adjutant.
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TRANSITION TRAINING ON B-17 AIRPLANES

The News Letter Correspondent of the 2nd Bombardment Group, Langley Field, Va., reports that new B-17's will soon be off the assembly line in the Beeing Factory, and that the following pilots and co-pilots have just completed or are receiving transition training on the B-17:

the B-17: <u>Pilots</u>: Majors H.A. Halverson, F.D. Hackett, E.L. Eubank, Captains W.O. Eareckson, R.A. Wilson, and Lieut. T.R. Lynch, of March Field, Calif.; Majors D.H. Dunton, Capts. J.M. Fitzmaurice, H.K. Baisley and D.F. Henry, of Langley Field, and Major S.M. Connell, of Mitchel Field. <u>Co-Pilots</u>: Lieuts. W.B. David, S.P. Triffy and H.M. McKay, of Langley Field.

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