

AEDC Model Shop reduces risk with new chemical cleaners



Scottie Stevens, an aerospace outside machinist, uses hand signals to direct a crane operator to lower a basket with an item to be cleaned June 29 in the chemical cleaning yard at Arnold Air Force Base. The vat contains one of two newly-acquired citrus-based cleaners purchased to replace hydrofluoric acid, a more dangerous chemical. Workers are able to wear less personal protective equipment with the new cleaner. Stevens is wearing a Tyvek suit, but had he been wearing long sleeves, he could have worn an apron instead, in addition to the gloves and face shield. (U.S. Air Force photo by Jill Pickett)

By Jill Pickett
AEDC Public Affairs

Mission first, safety always.

Efforts to put that common saying into action in a meaningful and measurable way came to fruition this summer at Arnold Air Force Base.

After more than a year of research and preparation, two new citrus-based chemical cleaners were delivered and put to use in place of hydrofluoric, or HF, acid.

“As the Air Force project manager for a project to improve safety in the mission areas, this effort was one of the first I approved to be funded due to its substantial safety impact to personnel and the environment,” said Donna Spry, condition-based maintenance manager with the Arnold Engineering Development Complex 804th Test Support Squadron. “I believe this is one of the most significant improvements I have seen at

AEDC in my 17 years.”

HF acid, a solution of hydrogen fluoride in water, is a corrosive chemical. According to the Centers for Disease Control and Prevention, “Hydrogen fluoride goes easily and quickly through the skin and into the tissues in the body. There, it damages the cells and causes them to not work properly.”

In the scheme of risk mitigation, hazard elimination is the most effective, but substitution, which is what was accomplished in the chemical cleaning yard, is considered second in effectiveness.

“Considering the hazards associated with HF compared to that of citric acid, this ranks as the most significant example of product substitution I can recall over my 30-plus years in the SHE [safety, health and environmental] field,” said Don Sproul, SHE manager for the Test Operations and Sustainment, or

TOS, contractor for Arnold Engineering Development Complex. “This operation has been made substantially safer with this substitution, and all those involved with making it happen should feel very proud of their accomplishment. Improvement opportunities exist all around us. Please continue to build upon this fine example in making AEDC a safer place for everyone.”

The journey to replacing the HF acid began when Warner Holt, group manager for Manufacturing Services for the TOS contractor, was speaking with aerospace outside machinists Scottie Stevens, Scott Pogue and Bruce Prater to learn more about their work in the chemical cleaning yard. He had known they work with acids, but speaking with them he learned just how hazardous one of the acids, HF acid, is to people and the environment.

See **CLEANERS**, page 6

Arnold service members, first responders complete new combat care training course



Tech. Sgt. Mark Friskel, left, an independent duty medical technician at Arnold Air Force Base, looks on as Maj. Justin Ong checks a simulated victim for breathing during Tactical Combat Casualty Care training Aug. 15 at the Arnold AFB Medical Aid Station. TCCC trainees are taught lifesaving techniques, strategies and procedures, allowing those who have been trained to provide best practice trauma care both on and off the battlefield. Ong was part of the first TCCC class, instructed by Friskel, at Arnold. The first level of TCCC training is required by all Department of Defense service members by April 2023. (U.S. Air Force photo by Bradley Hicks) (This image was altered by obscuring badges for security purposes)

By Bradley Hicks
AEDC Public Affairs

“It is better to be a warrior in a garden than a gardener in a war.”

This proverb encourages preparation. It calls for people to take advantage of calm times to hone their skills, as their abilities may be needed immediately should the quiet be suddenly shattered.

Although Tech. Sgt. Mark Friskel has heard the adage many times over the course of his Air Force career, for him the expression most perfectly encapsulates the purpose behind Tactical

Combat Casualty Care.

Tactical Combat Casualty Care, or TCCC, sets a training standard across the entire Department of Defense with evidence-based lifesaving techniques, strategies and procedures, allowing those who have been trained to provide best practice trauma care both on and off the battlefield should they encounter a situation in which a fellow Airman is wounded and needs swift assistance until further help can arrive or the injured can be safely transported from the scene.

“TCCC gives members the tools and tactics necessary to provide immediate

lifesaving care,” Friskel said. “The ability comes from their desire to maintain and hone their skills and their willingness to act when needed.”

On Aug. 15, the initial crop of trainees either stationed or employed at Arnold Air Force Base completed the first TCCC course held at the installation. The class, instructed by Friskel, an independent duty medical technician at Arnold, was comprised of six members selected due to job and mission requirements.

The Arnold service members,

See **TRAINING**, page 6



Col. Randel Gordon, commander, Arnold Engineering Development Complex, passes the guidon to Col. Karl Seekamp, charging him with command of the 704th Test Group during a ceremony Sept. 9 at Holloman Air Force Base, New Mexico. (U.S. Air Force photo by Airman 1st Class Corinna Diaz)

Col. Seekamp now leading 704th Test Group at Holloman

By Deidre Moon
AEDC Public Affairs

HOLLOMAN AIR FORCE BASE, N.M. – Col. Karl Seekamp officially took command of the 704th Test Group at Holloman Air Force Base during a ceremony Sept. 9.

As the test group’s commander, Seekamp will oversee units operating world-class test facilities for high-speed sled track testing, navigation and guidance system testing, radar signature measurements and weapon systems flight testing, and serve as Air Force liaison for all Air Force programs tested at White Sands Missile Range.

Seekamp previously served as the Air Force Test Center Director of Safety, overseeing mishap prevention within the \$31 billion enterprise of more than 18,000 military, civilian and contractor personnel across the test wings headquartered at Edwards Air Force Base, Eglin Air Force Base and Arnold AFB.

He entered active duty in 1999 as a

See **SEEKAMP**, page 5

In This Issue....

Arnold Fire and Emergency Services encourage base personnel to have a plan in case of fire

...Page 2

Caution urged as peak deer-vehicle collision season returns

...Page 4

HIGH MACH Arnold Air Force Base



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The *High Mach* office is located at 100 Kindel Drive, Suite A236, Arnold AFB, Tenn. 37389-1236. Editorial content is edited and prepared by NAS. Deadline for copy is Wednesday at close of business one week before publication.

This commercial enterprise newspaper is an allowable NAS contractor publication for personnel at Arnold AFB.

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Arnold Fire and Emergency Services encourage base personnel to have a plan in case of fire

By Bradley Hicks
AEDC Public Affairs

Something Christian Lyle saw over the summer only strengthened his belief that everyone should heed the advice contained in this year's Fire Prevention Week theme – "Fire won't wait. Plan your escape."

Lyle, Arnold Air Force Base Fire and Emergency Services fire prevention and communications officer, attended a fire inspector course. During one session, a video was shown comparing how quickly modern homes burn compared to older residences. Within five minutes, the fire in the older home had just begun to spread beyond its point of origin. In that same amount of time, full flashover had already occurred in the room of the newer home in which the fire had started. Flashover is the point at which the combustible materials in an area simultaneously burst into flames.

"It was just ridiculous the difference between the two of them," Lyle said.

According to the National Fire Protection Association, modern homes burn faster than ever. As a result, the amount of time a family has to exit a burning home is significantly lower than it once was. Fire officials across the country concur that having an escape plan is a necessity.

"It's important for everyone to plan and practice a home fire escape," Lyle said. "Everyone needs to be prepared in advance so that they know what to do when the smoke alarm sounds. Given that every home is different, every home fire escape plan will also be different. Have a plan for everyone in the home. Children, older adults and people with disabilities may need assistance to wake up and get out. Make sure that someone will help them."

To further drive home this point, the urgency of developing escape plans is the focus of this year's Fire Prevention Week campaign. This year, Fire Prevention Week is Oct. 9-15. The annual event, sponsored by the NFPA for the past 100 years, is the longest-running public health observance in the U.S. The goal of Fire Prevention Week is to raise fire safety awareness and provide public education to reduce fire-related casualties.

Thirty years ago, families had up to 17 minutes to safely escape a house fire. Now, that time may be as little as two minutes. Residential fires are faster and hotter nowadays due in large part to the prevalence of synthetic materials found in modern homes, Lyle said. Room temperatures can quickly reach more than 1,000 degrees Fahrenheit.

To develop a home fire escape plan, the NFPA recommends:

- Drawing a basic map of your home. This map should include all doors and windows.
- Identifying at least two ways out of each room in the home.



Fire Prevention Week, sponsored by the National Fire Protection Association, is Oct. 9-15. The theme of this year's Fire Prevention Week campaign is "Fire won't wait. Plan your escape." Arnold Air Force Base Fire and Emergency Services officials are urging base personnel to develop fire escape plans for their homes, maintain their residential smoke alarms and familiarize themselves with fire evacuation procedures for their respective work areas. (Courtesy graphic)

- Making sure the escape plan meets the needs of all family members, including those with sensory or physical disabilities.

- Ensuring that all doors and windows open easily. This includes ensuring the easy removal of window screens if they are installed.

- Making sure the house or building number can be seen from the street.

- Having an outside meeting place a safe distance from the home where everyone can gather after escaping.

- Discussing your fire escape plan with everyone in the home.

- Practicing a home escape drill at least twice a year with everyone in the household, including guests. Practice should occur at least once during the day and at least once at night.

- Making sure everyone in the home knows how to dial 911 or the local emergency number.

Smoke alarms are the first line of defense in residential fires and are capable of detecting smoke before the members of a household. The devices should be placed in every bedroom, outside of sleeping areas, such as hallways, and on every level of the home, including the basement. The smoke alarms should be in-

terconnected so that when one sounds, they all sound.

Alarm maintenance is essential. Arnold FES Fire Prevention Inspector Steve Macon said smoke alarms should be replaced every 10 years, adding that the manufacturer's date can be found on the device. He further suggested that alarms should be UL listed, meaning the device meets the required safety standards.

It is recommended that fire alarm batteries should be changed a couple of times annually. One way to remember this is to replace the alarm batteries when daylight saving time begins in the spring and again when it ends in the fall.

Alarms should be tested monthly and cleaned periodically to remove dust and debris within.

Once an alarm goes off, the fire escape plan should go into effect.

After someone has escaped from a burning home, it is imperative that they remain outside and not attempt to re-enter the residence, Lyle said.

"Property is always replaceable," he said, "family members and people are not."

To bolster fire safety, every home should have a fire extinguisher, Lyle said. Extinguishers should be removed from the box and placed in a clutter-free location where they are readily available if needed. They should also be tested monthly.

Lyle added if someone feels they are unable to use a fire extinguisher in the event of a fire or they have doubts about its ability to extinguish the fire, the best course of action is to escape from the home.

Due to the nature of the mission, fire is an ever-present possibility in many facilities at Arnold AFB.

Escape maps for each building may be found on each floor of that facility. Fire extinguishers may also be found throughout each floor of every building on base. Macon said members of the workforce should learn where the closest fire extinguisher to their work area is located.

Building managers across Arnold also play a key role in base fire safety. Lyle said these team members are familiar with escape plans and are responsible for regular checks of facility fire extinguishers. Building managers may also assign fire wardens for each floor of their facility to aid with evacuation control and may coordinate fire drills for their facility. In the event of a fire evacuation, the building manager will meet with fire officials to provide necessary information.

Arnold FES fire prevention personnel are also available to provide fire safety briefings and classes.

"Our primary mission is to provide as safe a working environment as possible so the personnel here at Arnold can go home to their friends and family at the end of the day," Lyle said. "It's entirely a team effort."

For more information on Fire Prevention Week or fire prevention in general, visit fpw.org and sparky.org or contact the Arnold FES Fire Prevention Office at 931-454-5569 or 931-454-5648.

Smoking Policy

- The following revised Arnold AFB smoking policy is effective immediately and applies to all individuals on Arnold AFB.
- Traditional Tobacco products (e.g. cigars and cigarettes):**
 - Smoking is permitted solely in Designated Tobacco Areas (DTAs) identified by designated signage. If no signage exists, smoking is not permitted in that area. It is the responsibility of all smokers to keep DTAs clean of cigarette butts.
 - Tobacco use on the Arnold AFB Golf Course is permitted, but discouraged based on the health hazards of tobacco use and secondhand smoke. No smoking is permitted within 50 feet of golf course buildings except in the approved DTA.
 - Smoking in government-owned/leased vehicles is strictly prohibited. Personnel are allowed to smoke in their personal vehicles at any time; however, at no time will personnel discard cigarette butts outside their vehicle.
 - For government employees, the fact that a person smokes has no bearing on the number of breaks they may take. Breaks should be taken in accordance with the current supervisory and personnel policies that afford all employees the same break opportunities consistent with good work practices and accomplishment of the mission.
- Smokeless Tobacco products (e.g. snuff and dip):** Smokeless tobacco products are not to be restricted to DTAs. Smokeless tobacco use will be permitted in all workplace areas (inside and out) subject to reasonable safety and sanitary conditions. Specifically, containers of tobacco waste product, including sealed containers, must not be left unattended or disposed of in trash receptacles. Users of smokeless tobacco must flush tobacco waste down the toilet.
- Electronic Cigarettes (also known as "e-cigs"):** Pursuant to Air Force Instruction (AFI) 40-102, Tobacco Free Living, e-cigs are considered to be equivalent to tobacco products; however, e-cigs are not restricted to DTAs and are allowed to be used outdoors at a minimum distance of 25 feet from building entry/egress points. (This policy is dated July 27, 2016)

Action Line

Team AEDC,

I believe in free and open communications with our Team AEDC employees, and that's why we have the Action Line available. People can use the Action Line to clear up rumors, ask questions, suggest ideas on improvements, enter complaints or get other issues off their chests.

The Action Line has been expanded to include an option for your ideas, comments, or suggestions on the AcqDemo personnel system. Simply call the normal x6000 commander's action line. You will then be prompted to select option 1 for the Commander's Action Line or Option 2 for the AcqDemo line. They can access the Action Line via the AEDC intranet home page and by calling 931-454-6000.

Although the Action Line is always available, the best and fastest way to get things resolved is by using your chain of command or by contacting the organization directly involved. I encourage everyone to go that route first, then if the situation isn't made right, give us a chance.

Col. Randel Gordon
AEDC Commander

Arnold AFB celebrates Air Force 75th birthday



Larry Gravis, retired Air Force colonel and former commander of Arnold Engineering Development Complex, gives the keynote address during an Air Force 75th Birthday celebration at the Arnold Lakeside Complex Sept. 16 at Arnold Air Force Base. (U.S. Air Force photo by Jill Pickett)



Col. Randel Gordon, commander, Arnold Engineering Development Complex, jokes with the younger attendees of the Air Force 75th Birthday celebration hosted by the Arnold Company Grade Officers' Council at the Arnold Lakeside Complex Sept. 16 at Arnold Air Force Base, headquarters of AEDC. (U.S. Air Force photo by Jill Pickett)



Col. Jason Vap, commander, 804th Test Group, Arnold Engineering Development Complex, and 2nd Lt. Ben West, 718th Test Squadron, 804th Test Group, use a sword to cut a cake in honor of the Air Force's 75th birthday at the Arnold Lakeside Complex Sept. 16 at Arnold Air Force Base. Per tradition, the cake is cut by the longest-serving and shortest-serving Airmen in attendance. Vap has served for 28 years. West began his Air Force career in August. (U.S. Air Force photo by Jill Pickett)



Attendees of the Air Force 75th Birthday celebration hosted by the Arnold Company Grade Officers' Council sing the Air Force song to wrap up the official program of the event at the Arnold Lakeside Complex Sept. 16 at Arnold Air Force Base. (U.S. Air Force photo by Jill Pickett)

Arnold FES participates in Manchester Preparedness Day



Joshua McDonald, 5, tries on a firefighter's helmet as his mother takes a photo of him and George Trussell, a firefighter with Arnold Air Force Base Fire and Emergency Services, looks on during the Manchester Preparedness Day Sept. 17 in Manchester. National Preparedness Month is observed in September. (U.S. Air Force photo by Jill Pickett)



George Trussell, a firefighter with Arnold Air Force Base Fire and Emergency Services, watches as Marlee Frost, 4, tries out the passenger seat of one of the Arnold fire trucks as her father, Tony Frost, a patrolman with the Manchester Police Department, looks on during Manchester Preparedness Day Sept. 17 in Manchester. (U.S. Air Force photo by Jill Pickett)



Cooper Gunn, 7, climbs into an Arnold Air Force Base Fire and Emergency Services truck Sept. 17 while at the Manchester Preparedness Day in Manchester. The Arnold Air Force Base FES personnel attended the event hosted by Coffee County Emergency Management and Homeland Security Agency in conjunction with the Coffee County Community Emergency Response Team. (U.S. Air Force photo by Jill Pickett)

Caution urged as peak deer-vehicle collision season returns

By John Lamb

AEDC Facility Support Services

The National Highway Safety Administration states that there are approximately 1.5 million deer-vehicle collisions, or DVCs, every year in the United States resulting in \$1 billion in vehicle damage.

Worse yet, DVCs cause 175-200 human deaths and 10,000 injuries annually.

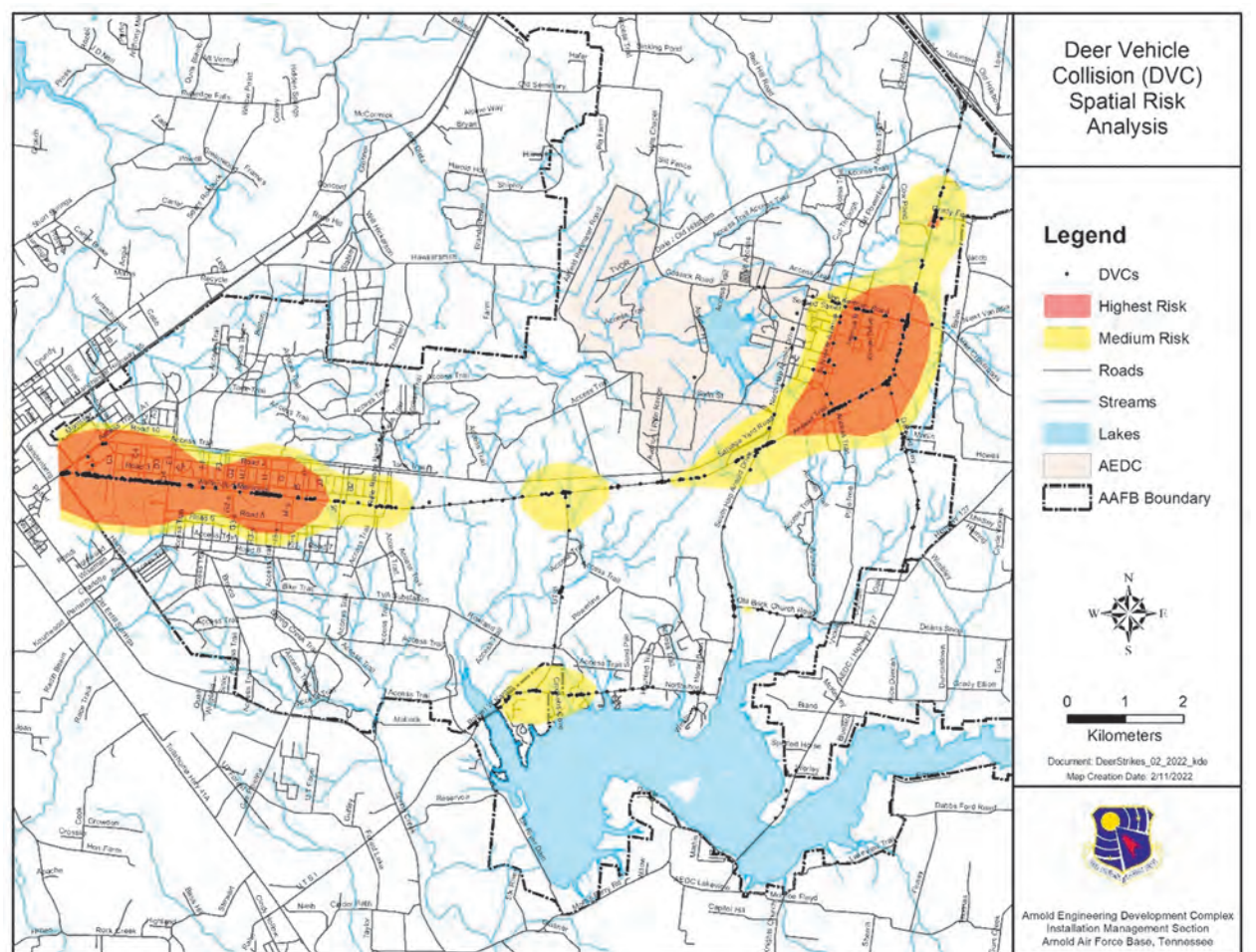
State Farm lists Tennessee as a “medium-risk state” for DVCs. Their nationwide analysis of data from July 2021 through June 2022 shows Tennessee drivers had a one in 108 chance of being involved in a DVC. While the likelihood of this happening at Arnold Air Force Base has decreased over the last few decades, caution is still urged.

An analysis of 35 years of DVC data at Arnold AFB reveals that October through January is when deer collisions peak. On base, motorists should always assume they are driving through deer habitat but, based on analysis of the locations of DVCs since 2002, there appear to be areas at Arnold where DVCs are more concentrated and pose a higher risk.

Accurate data is key to analysis and reporting of DVC trends and probabilities. For this reason, it is important that motorists report when and where all DVCs occur.

The following tips for avoiding DVCs were compiled from a number of sources such as the Insurance Institute for Highway Safety, Tennessee Department of Safety, Tennessee Wildlife Resources Agency, Highway Loss Data Institute, Deer-Vehicle Crash Information Clearinghouse and Michigan Deer Crash Coalition, all of which offer similar advice. These tips include:

- Use extreme caution during the months of October through January.
- If you see one deer, you should expect others.
- Be attentive from sunset to midnight and hours shortly before and after sunrise. These are the highest risk periods for DVCs.
- When driving at night, reduce your speed and use high-beam headlights when possible. The high beams will better illuminate the eyes of deer on or near the roadway.
- Slow down when you notice a deer in or near your path but stay in your lane. Many serious crashes occur when drivers swerve to avoid a deer and hit another vehicle or lose control of their cars.
- Do not rely on devices such as deer whistles to deter



Motorists traveling on and around Arnold Air Force Base should always assume they are driving through deer habitat, but based on the geospatial probability analysis represented in this map, there appear to be areas at Arnold where deer-vehicle collisions are more concentrated and pose a higher risk. (Courtesy graphic)

deer; they have been proven not to change deer behavior.

- Avoid the use of cell phones and other distractions while driving.
- Scan both the roadway and roadsides.
- Be especially careful in the rain – deer can be harder to see and they slip easily on the pavement.
- If a DVC is unavoidable, the same sources offer this advice:
- Don't swerve, brake firmly, stay in your lane, hold onto the steering wheel and bring your vehicle to a controlled stop.

• Pull off the roadway. Turn on the vehicle hazard flashers and be careful of other

traffic when you leave your car.

- Don't attempt to remove a deer from the roadway unless you're convinced it's dead. A deer can inflict serious injuries.
 - Contact law enforcement to report the incident. At Arnold, be sure to report it to the AEDC Protective Services so they can continue to track and evaluate the problem.
 - Contact your insurance agent or company representative to report any damage to your vehicle. Collision with a deer is usually covered under the comprehensive portion of your automobile policy.
- Tennessee law allows deer killed in a collision to be taken and used as food as long as you contact the nearest TWRA regional office to report the accident within 48 hours.

Cop Corner: Surveillance detection answers



Various items that could be used for surveillance are shown in the front seats of a vehicle. (U.S. Air Force photo illustration by Dan Hawkins)

By Dan Hawkins
Antiterrorism Program Manager

Congratulations to Michelle Frame, 718th Test Squadron, for being the only person to correctly identify the items and answer the questions from our article in the Sept. 6 edition of *High Mach*. Frame will receive a coin from the Office of Special Investigations, or OSI, for identifying the 10 items that could be used by an adversary

to conduct surveillance on Arnold Air Force Base assets and the items that are illegal to either possess or use in the mission area.

How many did you get correct? The items are marked as follows:

1. Hunting camera
2. GoPro
3. Drone
4. Cell phone

5. Standard camera
6. Action camera
7. Dash camera
8. Mini camera
9. Binoculars
10. Hand-drawn map (Any maps, drawings, notes or other illustrations could be indicators of ongoing surveillance.)

The simple presence of any one of these items does not necessarily constitute surveillance, but if these are actively being used, they should be reported for further investigation.

Of these 10 items, numbers 3 and 7, a drone and a dash camera, are illegal to *use* within the mission area.

Item number 11 shows a handgun, which is not linked to surveillance but is illegal to *possess* within the mission area. Please remain vigilant as

you walk through parking lots or see cars driving around the base. If you spot any type of suspicious activity or indicators, please notify the Base Defense Operations Center at 931-454-HELP (4357) or OSI through the Eagle Eyes program at 931-454-EYES (3937).

Please direct any questions or suggestions for future articles to our distribution group: AEDC.Arnold.CopCorner@us.af.mil.

SEEKAMP from page 1



An Airman from the 704th Test Group reveals the name of the 704th Test Group incoming commander during a change of command ceremony at Holloman Air Force Base, New Mexico, Sep. 9. The 704 TG operates world-class test facilities for high-speed sled track testing, navigation and guidance system testing, radar signature measurements and weapon systems flight testing, and serves as Air Force liaison for all Air Force programs tested at White Sands Missile Range. (U.S. Air Force photo by Airman 1st Class Corinna Diaz)

distinguished graduate of the Reserve Officer Training Corps at the University of Connecticut, where he earned a degree in mechanical engineering. He also holds a master's degree in business management from the University of Maryland.

Seekamp completed Joint Undergraduate Pilot Training at Pensacola Naval Air Station, Florida, followed by Specialized Undergraduate Pilot Train-

ing – Helicopter at Fort Rucker, Alabama. He served operational tours flying the UH-1N at Yokota Air Base, Japan, and F.E. Warren AFB, Wyoming, before attending the U.S. Naval Test Pilot School at Patuxent River Naval Air Station, Maryland.

Following TPS, Seekamp led U.S. Air Force developmental testing of the CV-22 Osprey, HH-60 Pave Hawk, and Guardian Angel Weapon systems.

In 2011, he commanded Detachment 1 of the 838 Air Expeditionary Advisor Group, leading Mi-17 combat operations across western Afghanistan.

Seekamp has commanded flight test units at both the detachment and squadron levels. He additionally oversaw nine highly diverse test squadrons and detachments as deputy commander of the 96th Operations Group. He has staff experience in numbered Air Force-level

safety, major command standardization and evaluation, and combatant commands strategic plans.

Prior to his role as AFTC Director of Safety, Seekamp led the Hurlburt operating location of the Air Force Operational Test and Evaluation Center where he was responsible for operational testing of the HH-60W Jolly Green II and MH-139A Grey Wolf, two of the Air Force's newest major weapon system acquisitions.

CLEANERS from page 1

“That really got me concerned,” Holt said. “I started doing some research, and that stuff goes through the skin and starts eating bone. It’s very dangerous. You can do damage over time, and it showed pictures of people that had worked with it over the years and the tips of their fingers had worn down where they didn’t protect themselves.”

The necessary personal protective equipment and procedures to keep personnel and the environment safe from HF acid exposure were in place, but as long as the HF acid was in use, there was a risk something could go wrong.

After meeting with Arnold AFB Fire and Emergency Services and safety on base, a search began for a replacement.

“That’s when we started working with the Chem Lab and using their chemical expertise and knowledge,” Holt said. “We said, ‘Hey, we have hydrofluoric acid now and we need something that we can do the same type of cleaning without having to use hydrofluoric acid.’”

Megan Rawls, a metallurgical lab engineer at the Chemical Laboratory on base at that time, spent several months testing cleaners and identified two citrus-based products that could be substituted for the HF acid.

“I am so proud of the teamwork from craft personnel, TOS management, the Chem Lab, along with support from Fire and Emergency Services and TOS Safety to come up with a viable option to replace the HF acid with a much safer alternative,” Spry said.

After the substitutes were approved, it took several months of preparation, including removal of the HF acid, which must be handled as a hazardous material even after it is neutralized.

Once the new products were in place, the

chemical cleaning yard was back up and running, with significantly less risk to the crew that works there.

“It’s nice,” said Stevens. “It’s really nice. You put on one of those banana suits [yellow Tyvek suit] and you’ll be ringing wet by the time you walk back there. The heat stress is going to be a lot better to handle now. And, you’re not worried about a pinhole forming in a tank and it blowing the side out while you’re walking by. A catastrophic failure could happen.

“The environmental means a lot, too. We don’t want to let anything get out that doesn’t need to get out, so that’s a big plus.”

When using HF acid, they had to fully dress out in Tyvek suits, face shields, respirators, rubber gloves and rubber boots because any contact, including inhalation, was hazardous.

When using the new products, they only require long sleeves, long pants, rubber gloves and face shields under typical operations utilizing a crane to lift and lower parts into and out of the vats.

As far as the environmental safety controls, a liner prevented acid from making contact with the ground in the vat and drying area for parts. The new products do not require that precaution. This reduction in environmental risk allowed for the canceling of a project to reline the drying area, in turn generating a cost avoidance.

Other than the risk reduction, the only difference may be a slight increase in the time a part has to stay in the acid to get as clean as with the HF acid.

“There could be an argument that it’s not quite as good as the HF, but I’ll take that over exposing these guys to that risk,” Holt said.



In the foreground sit stacks of parts from a test facility at Arnold Air Force Base June 29 showing the before and after states of chemical cleaning operations. The parts in the box are before cleaning. The parts leaning against the box have been cleaned. One of the steps in the process uses newly-acquired citrus-based cleaners, which were purchased to replace a significantly more hazardous chemical, hydrofluoric acid. (U.S. Air Force photo by Jill Pickett)

TRAINING from page 1

security personnel and law enforcement officials who participated received both video and hands-on instruction for several lifesaving techniques, including wound packing, pressure bandage application and tourniquet administration.

At the end of the training, each participant was assessed on his ability to apply his newly-acquired TCCC knowledge in a distinct scenario. Injuries that these trainees were tasked with addressing in these simulated situations included blunt force trauma caused by a fall, lacerations caused by a machinery mishap and massive bleeding caused by a shooting.

The goal of TCCC is to reduce the number of preventable deaths. In a 2012 article titled “Death on the battlefield (2001-2011): Implications for the future of combat casualty care,” Col. Brian Eastridge and his co-authors wrote that of the nearly 4,600 battlefield fatalities analyzed between October 2001 and June 2011, approximately 87% of these combat-related deaths occurred in pre-hospital settings. Of those, it was determined 24% could have been potentially survivable, as they were a result of either uncontrolled or improperly-controlled bleeding or an unmanaged airway.

To improve outcomes for combat casualties with potentially survivable injuries, TCCC prioritizes addressing the primary causes of battlefield deaths first. The “MARCH” acronym is ingrained in TCCC trainees, as it spells out the order in which care should be delivered. The “M” stands for massive bleeding, the leading cause of potentially preventable deaths across the DOD. Trainees are taught how to check for life-threatening bleeding and ways to stop it. The “A” stands for airway, and trainees are taught methods for opening a casualty’s airway. The “R” is for respiration, and methods to assess respiration and breathing are taught through TCCC. The “C” stands for circulation. TCCC provides guidance on how to monitor a casualty’s blood circulation and prevent shock. The “H” stands for hypothermia. To prevent hypothermia among casualties, trainees receive information on how to keep the injured warm and dry.

Friskel said the standardization offered by TCCC is important in that it establishes a baseline of knowledge and skill.

“All members having the same baseline skills to treat ca-

sualties helps to free up medical assets to focus on higher-priority or casualties with more advanced or invasive needs,” he said. “Also, if no medical assets are available, members can treat casualties, providing better chances of survival.

“It also instills a bit of confidence and comfort. You know everyone with you has the knowledge and skills to help if something should happen.”

Originally created in the early 1990s by the Committee on Tactical Combat Casualty Care for the Special Operations Command medical community, TCCC was developed as combat-appropriate and evidence-based trauma care based on injury patterns of previous conflicts. TCCC remained primarily in the Special Operations community until around 2012, when the committee was placed under the Joint Trauma System which itself became a component of the Defense Health Agency.

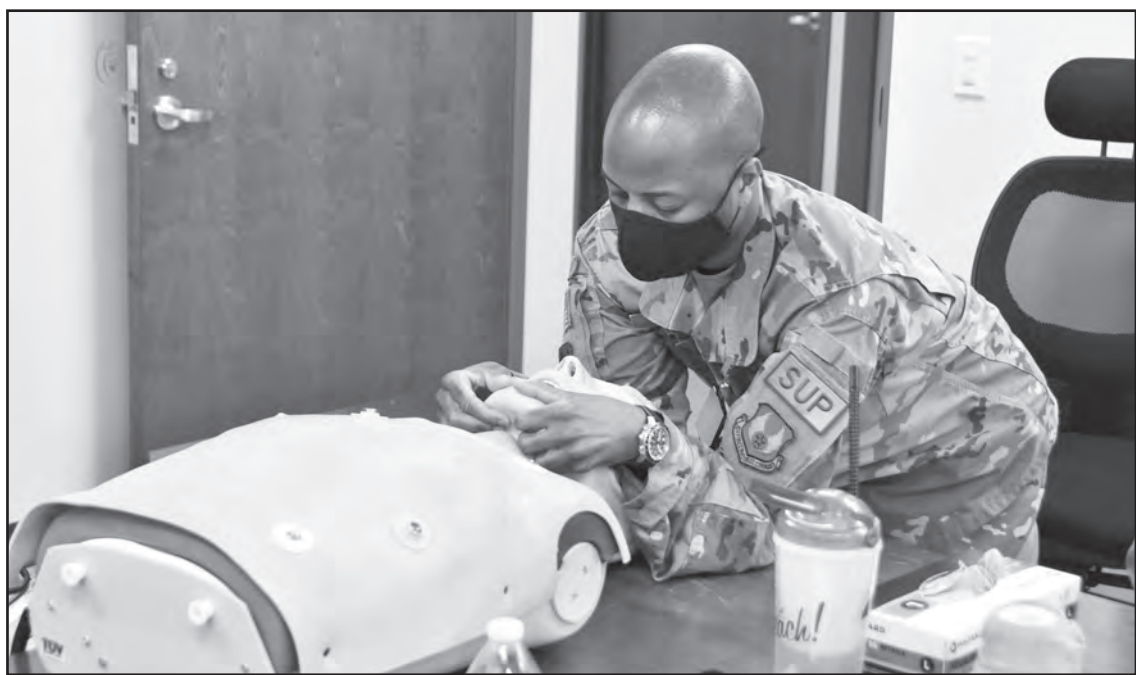
TCCC replaces Self-Aid Buddy Care, an Air Force training that served the same overall purpose of TCCC – to provide immediate support to the wounded until medical help could arrive. SABC training consisted of two parts. The first was computer-based training, or CBT, which included videos and PowerPoint presentations that trainees would view on their own time. The second part was hands-on training scheduled upon completion of the CBT.

Friskel noted an issue with SABC being a lack of uniformity in training and information presented.

“I have been an instructor providing training for 15 years at five different bases. I can tell you each base had their own way of providing the training,” Friskel said of SABC. “There was no standardization at all, just a bag of items they saw in the CBTs. I’ve seen some instructors go very in depth and some rush through it just to check a box.”

TCCC instead consists of a standardized didactic presentation with DHA-produced videos, handouts, training requirements and assessment tools.

“It ensures that all members are learning the information, not just clicking through a PowerPoint to get it done,” Friskel said of TCCC. “The slides and videos are much more informative and a lot easier to sit through. With standardized skills, instructions and assessment sheets, there is no question on what needs to be done and how it needs to be done.”



Master Sgt. Don Wilson practices the jaw thrust technique for opening a victim’s airway during Tactical Combat Casualty Care training Aug. 15 at the Medical Aid Station, Arnold Air Force Base. Wilson was part of the first TCCC class at Arnold. (U.S. Air Force photo by Bradley Hicks) (This image was altered by obscuring a badge for security purposes)



Andy Schwegler with Arnold Air Force Base Security Forces practices applying a pressure bandage during Tactical Combat Casualty Care training Aug. 15 at the Arnold AFB Medical Aid Station. The pool noodle Schwegler is holding represents a massive bleeding injury requiring immediate care. (U.S. Air Force photo by Bradley Hicks)

Friskel added there is “no comparison” between TCCC and SABC.

“TCCC is leaps and bounds above SABC,” he said. “It is much more interactive, flows much better and the members don’t have CBTs to click through. TCCC provides members important information in a way they can learn and retain it better and scenarios to practice and help to build confidence in the skills they are learning.”

Future classes could offer a greater variety of scenarios more specific to Arnold.

“We can create our own sce-

narios to fit the mission and jobs that members would likely encounter day-to-day, because this training isn’t just for combat, it can be utilized day-to-day to help save lives,” Friskel said.

July 1 marked the official sunset of the SABC program as the TCCC training requirement went into effect on that date. All DOD service members are required to obtain the initial TCCC training specifically developed for service members no later than April 2023.

The TCCC training provided to service members is good for a period of three years upon its completion. Friskel said because

the DOD-wide TCCC requirement is new, officials are still working out some details concerning the training.

The information in TCCC is continuously being reviewed and updated through lessons learned in combat zones around the world as well as in trauma centers and through EMS. Therefore, Friskel said, the training is proven effective to save lives.

“It is better to have the knowledge and skills and never have to use them than to be in a situation where thoughts and prayers are the only thing you have,” Friskel said.

AFTC kicks off new digital engineering efforts

By Air Force Test Center
Public Affairs

EDWARDS AIR FORCE BASE, Calif. – Hot off the publication of its Digital Modernization Strategy, The Air Force Test Center kicked-off three digital-engineering efforts to provide on-ramps for the Air Force’s evolving digital-engineering technology ecosystem.

These programs will evaluate digital test methods for weapon systems to address the desire to decrease overexertion on physical (ground and flight) test infrastructure, identify root-cause failures earlier in the developmental test process, compress schedules for large national test programs, limit open-air testing of highly sensitive programs, and correlate to acquisition digital engineering models.

“I believe the AFTC is uniquely postured to create data-driven models to aid decision-making before a program bends metal,” said Dr. Thomas Fetterhoff, AFTC technical advisor for aerodynamics, propulsion, and ground test and evaluation. “With modeling and simulation, we can assess and manage the uncertainties of system performance. This allows the program manager to buy down risks in a quantified way.”

AFTC has partnered with Ansys to connect system design and performance through



Digital transformation leverages information technology and data to drive more efficient collaboration and weapons system development to bring capabilities to the warfighter faster and smarter. Faster development and deployment of technologies help the warfighter maintain a technological advantage over U.S. adversaries. The Air Force Materiel Command has established a new office to manage digital transformation activities across the Air and Space Force enterprise. The office will focus on creating a digital governance structure and facilitate on-going and new digital acquisition transformation activities across the enterprise. (U.S. Air Force graphic by Randy Palmer)

authoritative source data.

“Commercial engineering simulation is proven to significantly reduce cost, schedule, and risk in DoD programs,” said Kevin Flood, vice president of digital mission engineering at Ansys. “Ansys is proud to partner with AFTC to help field capability at the operational tempo the warfighter requires. Our Ansys Government Initiatives subsidiary continues this mission with dedicated support of the national security mission.”

The first digital engineering effort will see the Arnold Engineering Development Complex partner with Ansys to synthesize multi-fidelity data sources together with digital models to aid in early design processes. These models, along with uncertainty quantification techniques, will provide programs with performance predictions, an assessment of the veracity of those predictions, and a plan to improve those predictions through additional testing and modeling efforts.

“AFTC is also looking to exploit the power of modeling and simulation to overcome geographic and environmental shackles to help shape current and future capabilities,” said John Grigaliunas, AFTC technical advisor.

The second digital engineering effort will help determine how simulation can augment physical testing in the delivery of models, as an output of developmental test. In this effort, the 412th Test Wing will provide simulation ca-

capabilities and develop workflows to perform virtual testing of Infrared Search and Track systems which present unique challenges in flight test.

“Using advanced M&S extends performance predictions for these systems that are otherwise flight test prohibitive while providing orders of magnitude more information to the warfighter,” said, Ronald Hardgrove, 775th Test Squadron electro-optics/infrared flight chief/technical advisor.

Lastly, a team led by Kevin Sura, the 96th Operations Group technical advisor, will spearhead a modeling effort aimed at improving test point density, re-fly rates, and rapid analysis to support efficient acquisition planning earlier in a program’s lifecycle.

“Dynamic and interactive test planning and post-flight analysis in a flexible ad-hoc modeling environment will go a long way in aiding the T&E community in providing data faster, and with more insight,” said Sura.

By applying internally developed and commercially available physics-based simulation technology to these three projects which showcase applicability across disparate technologies, AFTC develops open connectivity and portability to T&E specific digital environments and supports requirements across the weapon system lifecycle.

DEPARTMENT OF DEFENSE

TAKING CARE OF OUR SERVICE MEMBERS & FAMILIES

September 2022



THERE ARE MORE THAN

1.3M

ACTIVE DUTY MEMBERS

serving in the Army, Navy, Marine Corps, Air Force and Space Force.



THERE ARE MORE THAN

1.5M

ACTIVE DUTY FAMILY MEMBERS

MORE THAN **38%** ARE SPOUSES



MORE THAN **61%** ARE CHILDREN



LESS THAN **1%** ARE ADULT DEPENDENTS



46.1%

SINGLE, NO CHILDREN

3.9%

SINGLE, WITH CHILDREN

13.6%

MARRIED TO CIVILIAN, NO CHILDREN

29.5%

MARRIED TO CIVILIAN, WITH CHILDREN

4.4%

DUAL-MILITARY MARRIAGE, NO CHILDREN

4.4%

DUAL-MILITARY MARRIAGE, WITH CHILDREN

DOD PROVIDES ECONOMIC SUPPORT BY: SECURING AFFORDABLE BASIC NEEDS

- ▶ Review 2023 BAH to ensure market fluctuations reflected
- ▶ Temporary BAH increase in areas with 20% rental spikes
- ▶ Fully fund commissaries with goal of at least 25% savings
- ▶ Pay eligible Service members Basic Needs Allowance starting 2023



MAKING MOVES EASIER

- ▶ Increase TLE max coverage from 10 to 14 days CONUS moves
- ▶ Up to 60 days TLE in areas with housing shortages
- ▶ Increase Dislocation Allowance E1-E6
- ▶ DLA paid automatically before move date for all Service members
- ▶ Military OneSource moving and housing website improvements



STRENGTHENING FAMILY SUPPORT

- ▶ Significant investments in Child Development Program facilities and infrastructure
- ▶ Attract CDP staff with minimum 50% discount for 1st child
- ▶ Improve access to childcare programs, resources



EXPANDING SPOUSAL EMPLOYMENT

- ▶ Remove barriers to transfer professional licenses
- ▶ Accelerate seven additional interstate licensure compacts
- ▶ Increase use of non-competitive, direct hiring authorities
- ▶ Expand DOD Fed spouse remote, telework options
- ▶ Paid private-sector fellowship pilot 2023
- ▶ More Military Spouse Employment Partnerships



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Arnold AFB Milestones

35 YEARS
Amy Hopf, TOS

Matthew Stiggins, TOS
Robert Williams, TOS

Matthew Meacham, TOS
Cody Sewell, AF

Kyle Trussell, TOS

Forrest Hardy, TOS
Robert Renegar, TOS
Jeffrey Ross, AF
Grant Schneeberger, AF
Justin Sims, TOS
Brandi Simmons, AF
Denice Spurgeon, TOS
Victoria Swan, TOS

25 YEARS
William Betz, TOS
Marie Sood, TOS

15 YEARS
Felixberto Alday, TOS
Mason Counts, TOS
Patrick Goulding, TOS
Larry Hackett, TOS

5 YEARS
Tony Cawley, TOS
Craig Calcagno, TOS
Stan Freeze, TOS
Adam Plondke, AF
Daniel Rattigan, TOS

INBOUND MILITARY
Tech. Sgt. Paul Brotherton, AF

RETIREMENTS
Steve Macon, FSS

20 YEARS
Jay Baldwin, FSS
Michael Buckner, TOS
Bradley Pearson, TOS

10 YEARS
Shane Clark, FSS

Justin Rose, TOS
Frances Samples, TOS

NEW HIRES
Allison Drexel, TOS
William Fortney, TOS

PROMOTIONS
Mark Shaker, AF, promoted to major

Arnold Community Council recognizes Arnold Engineering Development Complex first responders



Kenneth Sullivan, center, Arnold Community Council president, presents Sgt. Andy Schwegler, a Department of the Air Force police officer at Arnold Air Force Base, with a plaque after recognizing him as an outstanding first responder during a Sept. 13 meeting of the ACC at the Gossick Leadership Center at Arnold AFB, headquarters of Arnold Engineering Development Complex. Also pictured is Glenn Liston, ACC vice president. The ACC is a nonprofit founded to support AEDC and represents multiple Tennessee and Alabama counties. The organization recognizes first responders in September in remembrance of 9/11. (U.S. Air Force photo by Jill Pickett)



Kenneth Sullivan, center, Arnold Community Council president, presents Chris Bohna, a member of the contractor security forces at Arnold Air Force Base, and his K-9 Eva with a plaque after recognizing them as outstanding first responders during a Sept. 13 meeting of the ACC at the Gossick Leadership Center at Arnold AFB, headquarters of Arnold Engineering Development Complex. Also pictured is Glenn Liston, ACC vice president. (U.S. Air Force photo by Jill Pickett) (This photo has been altered by obscuring a badge for security purposes.)

CAFÉ 100 & ALC CLOSED for AFMC Day
October 7

CAFÉ 100 SERVING BREAKFAST & LUNCH ON OCTOBER 11
ALC PRESENTING KIDS CRAFT & MOVIE NIGHT ON OCTOBER 14

ALC Kids Craft & Movie Night

October 14
5:30 P.M. Showtime

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BIGFOOT ADVENTURE PARK
TRACY CITY, TN

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STARTING AT 1 P.M.

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8 A.M. SHOTGUN

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OCTOBER 2022

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OCTOBER 21
5 - 8 P.M.
ALC

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DECORATE 4X8 HOLIDAY CARD TO CELEBRATE THE SEASON WITH ARNOLD SERVICES

SIGN UP STARTING OCTOBER 28

ENTRIES MUST BE TURNED IN BY NOVEMBER 30

PRIZES TO BE AWARDED

FOR MORE INFORMATION & TO SIGN UP
CALL 454-6084

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OCTOBER 28
5-7 PM

ALC
FREE MEMBERSHIP DINNER
\$8.95 NON MEMBERS

WINGO PARKING LOT
FIRST 10 CARS TO SIGN UP WILL BE SUPPLIED CANDY PRIZES FOR BEST DECORATED CARS
SIGN UP BY OCTOBER 24
454-6084

Rice inducted into Senior Non-Commissioned Officer tier

Master Sgt. Ida Rice, center, is inducted into the senior non-commissioned officer tier during an Aug. 26 ceremony at Holloman Air Force Base, New Mexico. Rice, a member of the 846th Test Squadron at Holloman, was selected to master sergeant in November 2021. The top three ranks of the enlisted force structure are chief master sergeant, senior master sergeant and master sergeant. Within this tier, personnel transition from craftsmen and supervisors to leadership and managerial positions. The purpose of the Senior Non-Commissioned Officer Induction Ceremony is to formally recognize Airmen as they transition from the non-commissioned officer tier to the senior non-commissioned officer tier and to afford leadership, peers and family the opportunity to celebrate their accomplishment. Pictured with Rice are Col. Justin Spears, commander, 49th Wing, Holloman AFB, left, and Chief Master Sgt. Jeffrey Martin, command chief, 49th Wing. (Courtesy photo)



AFTC Civilian Developmental Education selectees

By Air Force Test Center

EDWARDS AIR FORCE BASE, Calif. – On September 14, the Air Force released the results of Academic Year 2023 Civilian Development call. Air Force Test Center had 69 primary and alternate selects.

The Department of the Air Force AY23 CD Selection Board was held Aug 3-5. Twelve SES members and two general officers considered a total of 318 applicants. The board selected 131 primaries and 91 alternates to attend a variety of Civilian Development opportunities. Functional Development Teams selected a total of 1,178 primary and 138 alternates for CD DT-approved programs. This number will increase when the DOD makes final selections for the Defense Civilian Emerging Leader Program, which

will be in the late September to early October.

Candidates were eligible to be a primary or alternate for multiple programs. Selectee status is indicated as “primary” or “alternate.” Those selected for the Civilian Strategic Leadership Program are indicated as “primary.”

According to Dave Eisenstadt, the AFTC Director of Personnel, the CD process was very competitive this year. AFTC did exceptionally well. The selects should be very proud, they are the best of the best.

Eisenstadt also stated if you missed out on the AY23 CD process, you’ll have another opportunity to apply for the AY24 program. AFTC expects to kick off the AY24 CD campaign in early 2023.

Below is a list of this year’s AFTC selects:

Chastity Aguilar, 96TW/FS Squadron Officer School Primary

Wiley Allgood, 96TW/S&E Leading with Impact Primary

Myla Andersen, HQ AFTC/CON Organizational Leader Course Primary

Justin Anthony, HQ AFTC/FS Air Command and Staff College Online Masters Program Primary

Jamie Auger, 96TW/LOG Air Command and Staff College Online Masters Program Primary

Lauren Barboza, 96TW/FS Air Command and Staff College Online Masters Program Primary

Ashley Bayard, 96TW/S&E Organizational Leader Course Primary

Kelsey Belmont, 412TW/S&E Leading with Impact Primary

James Bigler-Damian, 96TW/SEC Organizational Leader Course Primary

Julia Blair, 412TW/SEC Air Command and Staff College Online Masters Program Primary

Gayle Bluekeyes, 96TW/SEC Upgrading Your Executive Leadership Approach Primary

Daniel Butler, 412TW/SEC Leading with Impact Alternate

Kiralei Celestino, HQ AFTC/PM Air Command and Staff College Online Masters Program Primary

Benjamin Coffey, HQ AFTC/S&E Enterprise Leadership Seminar Primary

Brenden Coleman, 412TW/S&E Air Command and Staff College Online Masters Program Alternate

Michael Contratto, 96TW/S&E National and International Security Leadership Seminar Alternate

Brenda Cott, 96TW/SEC Civilian Associates Degree Program Alternate

Justin Dalton, HQ AFTC/CON Leading Effectively Through Change Primary

Roderick Davis, Jr., 412TW/FS Enterprise Leadership Seminar Alternate

Roderick Davis, Jr., 412TW/FS Upgrading Your Executive Leadership Approach Primary

Michael Dent, AEDC/S&E Upgrading Your Executive Leadership Approach Primary

Brian Disorbo, 96TW/SEC Air Command & Staff College Primary

Brittany Elder, HQ AFTC/FS Leading with Impact Primary

Jennifer Ewers, HQ AFTC/PM Air Command and Staff College Online Masters Program Alternate

Christopher Gregory, 96TW/SEC Organizational Leader Course Primary

Ethan Hays, AEDC/S&E Leading with Impact Alternate

David Hoey, AEDC/S&E Leading with Impact Primary

Rebecca Hoppe, HQ AFTC/CON Leading Effectively Through Change Primary

Bradley Houck, 96TW/S&E Leading with Impact Primary

John Huber, HQ AFTC/CON Enterprise Leadership Seminar Primary

Kristopher Hughes, AEDC/CE Leading Change and Innovation Alternate

Dante Jackson, 412TW/S&E Civilian Leadership Course Primary

Lorenzo Javier, 96TW/SEC Organizational Leader Course Primary

Matthew Kaczor, 96TW/LOG Squadron Officer School Alternate

James Keith, AEDC/S&E Leading Effectively Through Change Primary

Jeremy Kidd, AEDC/FS Civilian Associates Degree Program Primary

Casey Luna, 412TW/S&E Squadron Officer School Primary

Kelly Marquez, 412TW/FM Civilian Leadership Course Primary

Michael Mcalister, 96TW/S&E Leading with Impact Primary

Jeri Mcclung, 96TW/S&E Enterprise Leadership Seminar Alternate

Jeri Mcclung, 96TW/S&E Leading Effectively Through Change Primary

Minerva Mcfarland, 412TW/CYBER & IT Organizational Leader Course Primary

Constance Mooney, AEDC/FS Air Command and Staff College Online Masters Program Primary

Larry Moore, 96TW/SEC Leading with Impact Primary

Tiffany Music, HQ AFTC/FS Masters Degree Primary

Ryan Nichols, HQ AFTC/CON Excellence in Government Primary

Stephanie Pella, HQ AFTC/CON Organizational Leader Course Primary

Wendy Peterson, 412TW/S&E Rand Fellowship Program Primary

Jeremy Rennahan, 96TW/CON Squadron Officer School Primary

Candice Rodriguez, 412TW/FS Civilian Associates Degree Program Primary

Jennifer Schlinger, 96TW/FS Organizational Leader Course Primary

Bryan Sinkovec, AEDC/S&E Leading with Impact Primary

Bryan Sinkovec, AEDC/S&E Air Command & Staff College Alternate

David Smith, 412TW/FS Upgrading Your Executive Leadership Approach Primary

Kyle Snow, 96TW/S&E Squadron Officer School Primary

Christine Socea, 412TW/CYBER & IT Civilian Associates Degree Program Primary

Christopher Stewart, 96TW/S&E Civilian Leadership Course Primary

Kevin Sura, 96TW/S&E Civilian Leadership Course Primary

Kevin Sura, 96TW/S&E Civilian Strategic Leader Program Primary

Edgar Tucker, AEDC/S&E Civilian Leadership Course Primary

Scott Wacker, AEDC/S&E Enterprise Leadership Seminar Alternate

Scott Wacker, AEDC/S&E Leading Effectively Through Change Primary

Steven Way, 412TW/CE Civilian Associates Degree Program Primary

Ronald White, 412TW/LOG Civilian Leadership Course Primary

David Willcox, 96TW/CYBER & IT Enterprise Leadership Seminar Alternate

Larry Wolford, 412TW/LOG Leading Change and Innovation Primary

Gary Wollam, AEDC/S&E Leading Change and Innovation Primary

Erica Wright, 96TW/SEC Air Command and Staff College Online Masters Program Primary

Kevin Zamora, AEDC/LOG Civilian Associates Degree Program Primary

Brown cites Air Force history as fuel for accelerating change, meeting today's complex security challenges

By Charles Pope

Secretary of the Air Force
Public Affairs

NATIONAL HARBOR, Md. (AFNS)

– Air Force Chief of Staff Gen. CQ Brown, Jr. urged the Total Force Sept. 19 to focus intently, to move fast and “accelerate change” in reshaping the service to meet modern-day threats that are fundamentally different – and more complex – than those of the previous 30 years.

And while the emerging security threats, particularly those posed by our “pacing, acute, and unforeseen challenges,” Brown told Airmen during his keynote address at the Air Force Association’s Air, Space and Cyber Conference he is confident the moment will be met.

“We have done this before, and we can do it again,” Brown told an audience of more than 2,500 Airmen, government and industry officials and assorted airpower advocates, using specific moments from the service’s 75-year history to validate his confidence.

“We now find ourselves in a pivotal period, one that is fundamentally reshaping the international security landscape,” Brown said. “And while our nation was focused on countering violent extremists for two decades, our competitors focused on matching our way of war.

“Our tactical skills are sharp, but we need to reframe our thinking to meet the challenges we will face in the future. In many ways, today’s security environment parallels our past,” he said.

Brown told Airmen that the service’s culture must adapt along with policies, practice and tactics. In that regard, he said there are “five areas that will drive culture change:”

- Mission Command;
- Force Generation;
- Agile Combat Employment;
- Multi-Capable Airmen, and;

- The Wing A-Staff construct.

“We must do it now,” Brown said, referring to the five areas, “because our adversaries will not wait for us to perfect these concepts.”

Brown reinforced the premise by taking the audience along for a ride through history.

In 1948, when the Soviet Union attempted to strangle West Berlin by blockading land routes into the city of two million, the Air Force commenced a massive airlift to sustain the city and prove a critical geopolitical point, that U.S. airpower could be delivered anywhere at any time.

“Without firing a shot, we embarked on the largest aerial resupply mission in history during Operation Vittles, landing at Tempelhof Airport every 45 seconds and delivering more than 13 thousand tons of cargo in one single day,” Brown said.

In the 1950s, when fears of the Soviet Union’s nuclear capability rose, the Air Force locked arms with industry and academia to design, test, build and launch an Atlas intercontinental ballistic missile in just two years.

The trend continued in the 1970s and 1980s, Brown said, when the Air Force again played a major role in developing stealth technology.

The tangible – if not always visible – result of that effort, Brown said, was “a brand new and revolutionary capability, the F-117 Nighthawk, in record time (and) paving the way for the stealth technology we see today.”

The record is uninterrupted decade by decade. In the 1990s during the 78-day air campaign waged to end Yugoslavia’s ethnic cleansing of Kosovar Albanians saw “multiple firsts for our Air Force,” Brown said. Among the most prominent was the fielding of the first MQ-1 Predator, the first operational use of the B-2 bomber, and the first time the Combined Air Operations Center was employed as a weapon system.

And in 2001, of course, after the attacks on U.S. soil, the Air Force, along with the United States “we rose as Americans and



Air Force Chief of Staff Gen. CQ Brown, Jr. delivers a keynote address on the state of the Air Force during the 2022 Air and Space Forces Association’s Air, Space and Cyber Conference in National Harbor, Maryland, Sept. 19. (U.S. Air Force photo by Eric Dietrich)

saw the strength of our nation when challenged.”

“At every stage, with every new trial, no matter how uncomfortable it felt we proved that we could rise above any challenge. We proved that we were willing to take the risks. And we proved that we could solve any problem by collaborating across our Air Force and within (the Department of Defense), with allies and partners, industry, academia,” he said.

In those examples and more, the Air Force distinguished itself and protected the nation by “driving outcomes; challenging the status quo and not waiting for the perfect conditions to act,” he said.

It was fueled “through experimentation, rapid prototyping, adapting new ideas, and having a bias for action, risk-taking, and creative disruption across all levels of Airmen,” he said.

In order to succeed this time, Brown said the Air Force must harness those same qualities and culture but refine it for modern challenges. Foremost, he said, is the need to maximize collaboration.

Brown has dubbed this approach “Integrated by Design,” as it relates to working closely with allies and partners at the beginning “with the end in mind.”

Brown also emphasized a point he has made before – that success is driven by creative and determined Airmen who are the power behind the changes the Air Force needs to succeed.

“We must harness any innovation that can put meaningful capability in the hands of warfighters. We can’t let ‘perfect’ to be the enemy of ‘good enough.’”

Turning to the audience, Brown put the onus directly on them. “You are the heart of our innovation, and I am constantly reminded that each of you drive the potential of our technology and the potential of our ideas; both are limitless.

“Our Airmen, the ones sitting here in this room, the ones getting the J-O-B done every day on our bases all around the globe – active, Guard, Reserve, and civilian – and our vast and incredible partners in industry and academia,” Brown said.

“These are not new challenges,” Brown said. “But the complexity and combination are more than ever before . . . We know strategic competition, and we know what it means to accelerate change.”

Brown closed with a note of optimism. “Last year I told you that I don’t believe in impossible,” Brown said. “We have done this before, and we will do it again.”

CMSAF announces ‘Purple Book,’ talks people, readiness, culture at AFA

By Master Sgt.

Erin L. Smith

Secretary of the Air Force
Public Affairs

NATIONAL HARBOR, Md. (AFNS)

– Chief Master Sgt. of the Air Force JoAnne S. Bass announced the release of the new Purple Book, while illuminating people, readiness, and culture at the Air and Space Forces Association’s Air, Space and Cyber Conference Sept. 20.

Bass, who represents the highest enlisted level of leadership, took pride in introducing the “The Joint Team,” commonly known as the Purple Book, which aims to help Airmen become better joint-minded service members. She also recapped the vast accomplishments attained over the past year, highlighting particular efforts of Airmen who supported Operation Allies Refuge and Operation Allies Welcome.

Airmen from the Personnel Recovery Task Force, special tactics and other major commands partnered to help evacuate Afghans, provide 1.5 million meals and 1.2 million bottles of water and administered 33,000 vaccines, constructed 552 tents, and delivered 38 newborns.

“When I think of ‘One Team, One Fight,’ I think of Airmen from across the Air Force,” she said. “Every major command came together to produce effects greater than themselves and their respective parts. That is interoperability and that is integrated by design.”

Noting recent accomplishments and works in

progress, Bass highlighted leadership development, publication of the first Enlisted Force Development Action Plan, updated The Enlisted Force Structure and The Profession of Arms: Our Core Values, more commonly known among Airmen as the “Brown” and “Blue” books.

Bass also mentioned updates to professional military education with some updates beginning this fall. Upcoming changes include:

- Improvements to the MyEval evaluation system.
- A shift in bullet writing to a narrative structure, beginning in October.
- Digital WAPS promotion testing.
- Changes to assignment priority codes for military training instructors, military training leaders, and recruiters.
- Removal of time on station requirements for expedited transfers and the inclusion of acquitted Airmen in expedited transfers.

- Better alignment of assignment report dates so Airmen will not have to report to a new duty station within 120 days of their return from a deployment.
- A new assignment swap policy, citing more details to come.

“How we develop and retain our Airman is paramount to winning the future fight,” she said. “Our strategic competitors are deterred by a strong NCO corps and even more so when we come together with our allies and partners. That is our strategic competitive advantage!”

Bass emphasized information warfare threats to the American way of life and mentioned wars of the future will not look like wars of the past. Making a special note that everyone has a responsibility to the fight by remaining ready, alert and aware of the tactics of our adversaries.

“When it comes to the information domain, we can no longer be passive observers,” she said. “It is a battle space, and our adversaries are weaponizing informa-

tion at speed, scale, and scope. They are able to leverage social media, digital media, and the information environment to direct the impact of people, readiness, and the culture of our Air Force.”

She specifically cited China and Russia, and how the disinformation model – which has been relatively unchanged for nearly a century – keeps working. Meanwhile, China has been keeping a watchful eye and learning. She stressed the need for digital and social media literacy has never been greater. Airmen now must be critical thinkers, but she has no doubt today’s Airmen are up to the challenge.

“As your fellow Airman, what I remain encouraged about is that no matter the challenges that may come our way, they can never compete with you,” she said. “In fact, the most lethal and advanced weapons systems that we have would simply be a static display if it wasn’t for you.”

Bass discussed the level of education among the enlisted force and noted this year alone, nearly 1,000

enlisted Airmen joined with a degree; making more than 33,000 enlisted Airmen in possession of a bachelor’s degree and more than 6,000 in possession of a postgraduate degree. Sixty-eight have a Ph.D. – three of whom are Airmen 1st Class.

She acknowledged the Airmen from the Puerto Rico Air National Guard, who are currently mobilized in response to Hurricane Fiona.

“I do not know when the

next conflict will arise or when the next humanitarian disaster might occur, but I do know whenever our nation calls, Airmen will respond,” she said. “It is because of you that Americans sleep well at night and will continue to do so for generations to come.”

To download the new Purple Book, go to https://www.doctrine.af.mil/Portals/61/documents/Airman_Development/PurpleBook.pdf.

