AFRL, AEDC teams earn Laureate award

By Holly Jordan

Air Force Research Laboratory Aerospace Systems Directorate

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Two groundbreaking Air Force Materiel Command teams have been recognized with the 2020 Aviation Week Network Laureate Award in the category of Defense.

The Medium Scale Critical Components team has been honored in the Propulsion subcategory. Comprising researchers and technicians from the Air Force Research Laboratory Aerospace Systems Directorate, Arnold Engineering Development Complex, and Northrop Grumman Corporation, the team recently set a record for the highest thrust produced by an air-breathing hypersonic engine in U.S. Air Force history.

The 16-foot-long engine successfully completed a nine-month series of tests at the AEDC Aerodynamic and Propulsion Test Unit facility in July, achieving over 13,000 pounds of thrust. To make the technology come together, the team planned, collaborated, and refined the design over a number of years, overcoming various challenges along the way, including a two-year facility upgrade to enable testing under the conditions necessary for this type of engine. The successful conclusion of the test brought the technology one step closer to enabling a new class of high-speed vehicles.

The Arnold Engineering Development Complex Aerodynamic and Propulsion Test Unit at Arnold Air Force Base, Tenn., supported testing for the Air Force Research Laboratory Medium Scale Critical Components program. The MSEC team was honored with a 2020 Aviation Week Network Laureate Award for the project, which set a record for the highest thrust produced by an air-breathing hypersonic engine in U.S. Air Force history. (Courtesy photo)

Supporters of Arnold AFB Angel Tree help brighten Christmas for 135 area children

By Bradley Hicks

AEDC Public Affairs

Active-duty Airmen, DOD civilians and contractors across Arnold Air Force Base have once again delivered a quick and resounding response, ensuring a brighter Christmas for dozens of area children.

The bags filled with toys and clothes that recently occupied the Arnold AFB Chapel have once again delivered a quick and resounding response, ensuring a brighter Christmas for dozens of area children. The bags filled with toys and clothes that recently occupied the Arnold AFB Chapel served as evidence that this year’s AEDC Angel Tree list was again successful.

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“Arnold has a big footprint when it comes to supporting the community, and little things like this are what bring us together,” said Master Sgt. Ricardo Hollingsworth, who, along with Master Sgt. Beverly Spademan, coordinated the Arnold Angel Tree program during the second consecutive year. “It shows that we care and that the community can depend on us for that support.”

Each year, personnel across Arnold sponsor “angels” from a list and purchase gifts based on each angel’s wants, such as toys, bicycles and electronics, and needs, like shirts, coats and shoes, as identified in the list. The angels are local children who may not otherwise receive Christmas gifts from family members due to their financial situations.

Personnel at Arnold Air Force Base have worked with the Center for Family Development in Shelbyville since the late 1990s, and Arnold is among the businesses and organizations that receives an angels list from the Shelbyville-based organization. When the partnership began, there were around 30 children on the Angel Tree list; however, the number of people seeking support through the Center has increased, so has the number of children on the list.

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The following revised Arnold AFB smoking policy is effective immediately and applies to all individuals on Traditional Tobacco products (e.g. cigars and cigarettes):

- Safety & Health. We are relentless in respecting, and reinforcing the value of human life, safety, health, and wellbeing, and maintaining a tobacco-free environment. We are proud of what we do and how we do it.
- Ethics. We are uncompromising in our integrity, honesty, and fairness.
- Integrity, Honor, and Fairness. We are committed to the highest standards of conduct and uphold those values in all that we do.
- Respect, and collaboration. We respect each other, our customers, and the environment.

Inclusive workforce who have a diverse

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1. Smoking is not permitted in any area where signs are posted.
2. The Freedom of Information Act (FOIA) or Freedom of Information Act for AEDC (FOIA FCA) or National Aerospace

- Col. Jeffrey Geraghty
- Jason Austin
- Richard Tighe
- December 16, 2019

A call for unification

Both the Japanese attack on Pearl Harbor on Dec. 7, 1941, and the Soviet Union’s invasion of Afghanistan on Dec. 1979, mark a turning point in the relationship between the United States and its allies. In the early 60s, both nations understood that they were underappreciated. In the 1970s, it’s not so easy. It requires patience and persistence on all ends as we work through issues with budget constraints, management issues, language barriers, and networks, and anything else along the way.

As written, the NDS provides clear guidance for AEDC. It provides us with an opportunity to play an instrumental role in preventing conflict with our adversaries by doing what we do best. Our contribution is vital to the test and evaluation of weapon systems that hold our adversaries at bay and in our ability to work together and our allies in an effective defense against China and Russia’s latest offensive weapons.

We often say that the Air Force is the tip of the spear and we provide the power to light the fire. In this great power competition AEDC is the innovation engine of today. We develop the new test centers, military, and defense

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Concerns about the Air Force’s role in the “Total Force” may have eroded with time. Our culture that tied everyone to a common goal regardless of our career field will erode if we don’t collectively mark this as a cultural shift in AEDC. To begin, we remove all the cultural barriers from an era in the words of weapon systems that we support through test and evaluation. Most of what we do is shrouded in secrecy with only a few people having access to the most inputs. Many of the systems under test now are beyond the capability of the general public for a decade or more. How do we increase support from the public by not doing a test and...
As of Dec. 1, Gate 2 at Arnold Air Force Base has changed its hours, now opening at 5:30 a.m. for base employees. The change in time is the new norm for base employees and is strictly for noncommercial traffic. The commercial traffic lane will continue to open at 7 a.m. and will stop taking commercial traffic at 2 p.m. Security Forces Chief Ray Kelly said, “We hope this new, permanent timeframe accommodates our AEDC family and makes for a safer and more expedited entry.”

Dr. Jerrod Hofferth, von Kármán Gas Dynamics Facility Wind Tunnel D lead engineer, works on a freestream characterization rake, used to determine Mach Number Uniformity, positioned in the Tunnel D test cell June 5 at Arnold Air Force Base. The tunnel was reactivated earlier this year and is operated by the Air Force Research Laboratory High Speed Experimentation Branch. A multiyear, multimillion dollar effort led to the successful reactivation, officially ending a period of dormancy for the tunnel that exceeded its original run. (U.S. Air Force photo by Jill Pickett)

Joseph Mann, an Arnold Engineering Development Complex instrumentation, data and controls engineer, works at the U7 portable data station in one of the arc-heated test cells at Arnold Air Force Base. Members of the Test Support System Division at Arnold AFB designed and built the portable data acquisition system to setup and prepare instrumentation between and during testing. The Space and Missiles Combined Test Force identified a need for this type of portable system due to the increasing test loads and the increasing need to streamline test installations. (U.S. Air Force photo by Deidre Moon) (This image has been altered for security purposes.)

The model positioning system of the Arnold Engineering Development Complex H-3 test cell rotates during a demonstration, April 19 at Arnold Air Force Base. The MPS can be moved axially, laterally, vertically and rotationally to align the models with the test cell flow. Several elements of the MPS were replaced as part of a planned upgrade, including the control system, position absolute encoders and motors. Changes were made to meet customer test requirements. (U.S. Air Force photo by Jill Pickett)

By Arnold Air Force Base Security Forces Office

As of Dec. 1, Gate 2 at Arnold Air Force Base has changed its hours, now opening at 5:30 a.m. to accommodate early morning workers. Arnold Engineering Development Complex leadership at Arnold AFB, along with the Security Forces Office, validated the concern, which warranted a change in operation time for Gate 2 earlier.

Gate 2 outbound traffic will be able to exit the base until 4 p.m. when the gate closes for the evening. Security Forces Chief Ray Kelly said, “We hope this new, permanent timeframe accommodates our AEDC family and makes for a safer and more expedited entry.”

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Last year, there were 140 children on the list provided to Arnold AFB’s Angel Tree program. In an effort to get word out as quickly as possible this year, the AEDC Angel Tree coordinators reached out to multiple organizations for Family Development in early November to see if the organization could provide any information on children in need of sponsorship. Within a couple of days, Hollingsworth and Spademan received a list of the wants and needs of 80 Shelbyville children. Hollingsworth and Spademan worked to manually enter the provided list into the AEDC SharePoint. That list was posted on the site on Nov. 14. By Nov. 20, all 80 children had received sponsorship. The AEDC Chapel, which served as the drop-off location for Angel Tree items, quickly began to fill soon after.

“We sent the email out on Thanksgiving. By that following Tuesday, we had the entire 80 children on the site on Nov. 14. By Nov. 20, all 80 children had received sponsorship.” Hollingsworth said. “The church attended by Master Sgt. LaShonja Morehead, received an Angel Tree list of children from Tullahoma. Because the first 80 children were all sponsored before Black Friday and coordination was asked if Arnold would receive additional angels, Hollingsworth and Spademan were allowed to include the extra children from that list. Hollingsworth and Spademan have also found others to add to the list. The coordinators of the Angel Tree program at Arnold AFB were confident these additional children would quickly find sponsors.

“We have a big population,” Spademan said. “We know it would be well-covered.” Hollingsworth has sponsored angels from each of his first couple of years at Arnold. He said being involved in the program is something “near and dear” to him, adding the Air Force strives to benefit the communities in which its bases are located.

“All of the stuff we do to support our community is because this is who we are, so I don’t feel like it’s an additional duty or it’s my job to do this,” Hollingsworth said. “I want to do this.” Spademan said. “My kids were on the tree when I was a young Airman, single mom, and it always made my kids’ Christmas.” Hollingsworth and Spademan added that helping out those in need is what Christmas is all about. She said those across Arnold step up to support those less fortunate in the community.

“It brings that bond, that relationship, between the military and the civilians and it shows that we are all in this together, especially around the holidays,” Hollingsworth said.

Representatives with the Center for Family Development visited Arnold after the Dec. 6 drop-off deadline to collect the gifts provided by Arnold personnel. The Center is responsible for the wrapping and distribution of the presents.

The XQ-58A Valkyrie is a great example of what happens when a dedicated government and industry team works toward a common vision,” said AFRL program manager Doug Szczublewski. The Valkyrie is a remarkable accomplishment requiring a highly collaborative approach to meet the program’s performance and cost objectives, all while achieving first flight in 30 months. Completing three flights that successfully accomplished all flight test objectives, the XQ-58A provides the Air Force another model for the way we build and buy aircraft. Our team has a lot to be proud of and is honored to be recognized by Aviation Week’s prestigious Laureate Award. The Aviation Week Network Laureate Award recognizes the extraordinary achievements of individuals and teams within the aerospace industry. Honorees are selected based on their accomplishments, innovation, and vision that inspire and enable progress within the field.

The Medium Scale Critical Components team and the XQ-58A Valkyrie team will be recognized in a formal ceremony held in the spring of 2020.

The XQ-58A Valkyrie is pictured during its second test flight June 11. Kratos Defense & Security Solutions, Inc., and the Air Force Research Laboratory received a 2020 Aviation Week Laureate Award for this low-cost, rapid-ly-procured affordable concept vehicle. (U.S. Air Force photo/1st Lt. Randolph Abaya)

::BEHAVIOR OF CREATIVE DATA::THEFT::METHODS::
To this day, the attitude of the original team remains true: the Holloman Track is all about pushing the boundaries of what is possible while employing world-class test planning and risk-mitigation strategies. As the holder of multiple world-class speed records, our vision is to drive forward to new heights. Holloman Track is embarking on a new journey. In addition to a healthy dose of ejection seat, guidance, impact and dispense testing, we are gearing up for a bow wave of hypersonic work. We need to go even faster, with heavier weights, at lower-velocity tier levels, and all of this with the ability to recover the sled in some cases. The return to great power competition demands a new suite of systems, operating in some regimes the Track cannot yet reach. More than up-graded facilities, what we need is a culture of innovation, with people who are at once brave and motivated and yet disciplined in their approach. Luckily, the next generation is stepping up to the plate.

Young program managers at the Holloman Test Range are making this possible. Bryan Southwell, the lead of our new team, has managed the development of our new rear experimentation kit as well as defined future propulsion requirements for all five test tracks in the nation for years to come. Test managers and data engineers like Al Ronsello and Tim Gros are moving into senior roles, taking on more responsibility, training junior personnel, and implementing the disciplined approach we so urgently need. With the support of many, young engineers like Laura Ahrens, Robert Edmonds, and Matt Heest are working on some of our highest risk sled designs, using Computational Fluid Dynamics, or CFD, simulations and other state-of-the-art modeling techniques to do things we’ve never done before. For instance, accelerating a wind tunnel to an extremely narrow Mach 2.5 window initiation window at Mach 2.5, about 100 feet after it leaves the end of the track! Instrumentation engineers and technicians like Brian Koltz, Phil Pegg, and Pat Nunnelley are improving our data coll 

When a decades-old part could no longer be purchased, the Plant Operations and Maintenance team at Arnold Engineering Development Complex Engine Test Facility at Arnold Air Force Base coordinated with members of the Condition Based Maintenance group to determine how best to react to the piece. With help from the CCM, Paul Kurtz, an intern with the Test Operations and Sustainment contractor National Aerospace Solutions, fabricated a new breaker handle for the Ludee Oil Supply used for C-Point operations at Arnold Air Force Base. The handle is used on a circuit breaker that supplies power to a 25 horsepower, 400-volt alternating current motor in the lube oil system. (U.S. Air Force photo)

A 35,000-horsepower motor is lifted by a crane into place at the Arnold Engineering Development Complex Engine Test Facility A Plant at Arnold Air Force Base, Oct. 14. Exhaustor motors near the Engine Test Facility were replaced after being in service since at least 1938. The motors, referred to as the A and B exhaustors, had been used to exhaust up to a combined total of 1,100 pounds of air per second during testing. (U.S. Air Force photo by Jill Pickle)
A scale model of the Sikorsky-Boeing SB>1 DEFIANT™ undergoes testing at the Arnold Engineering Development Complex National Full-Scale Aerodynamics Complex at Moffett Field in Mountain View, California. The helicopter, tested in the NFAC 40-by-80-foot wind tunnel, is being developed for the Army’s Joint Multi-Role Technology Demonstrator program. The goal of the wind tunnel test was to validate the aerodynamic performance and flight mechanics of Sikorsky’s X2 Technology™ aircraft. (Courtesy photo)

This image presents a visualization of the surface heat transfer on the full-scale Boundary Layer Transition, or BOLT, experiment model in the CU-BRC LENS II shock tunnel in Buffalo, New York. The aim of the BOLT experiment, which is being sponsored by the Air Force Research Laboratory/AF Office of Scientific Research and conducted by the Johns Hopkins University Applied Physics Laboratory (JHU-APL), along with the University of Minnesota, Purdue University, Texas A&M University, AFRL Aerospace Systems Directorate, NASA Langley, CUBRC, VirtusAero and DLR in Germany, is to predict the state of the boundary layer, or the thin layer of air near the surface, of the new canonical shape shown in the photo. Personnel at the Arnold Engineering Development Complex Hypervelocity Wind Tunnel 5 in White Oak, Maryland, provided training to JHU-APL staff members on how to install instrumentation used to measure temperatures on the BOLT hardware. (Courtesy photo by Air Force Office of Scientific Research/Johns Hopkins University Applied Physics Laboratory)

Col. Jeffrey T. Geraghty, right, assumed command of the Arnold Engineering Development Complex as the 31st commander during a Change of Command ceremony on June 18. Brig. Gen. Christopher Azzano, left, Air Force Test Center Commander, presided over the ceremony. The ceremony was also attended by the commanders’ guests, local dignitaries and AEDC personnel inside J-4, the AEDC Large Rocket Motor Test Facility at Arnold Air Force Base, Tenn. (U.S. Air Force photo by Jill Pickett)

Arnold Engineering Development Complex Commander Col. Jeffrey Geraghty, left, passes the Test System Sustainment Division guidon to incoming division chief Lt. Col. Jeffrey Burdette during an Assumption of Leadership Ceremony Aug. 9 at the Arnold Lakeside Center on Arnold Air Force Base. Burdette came to AEDC as the previous Deputy Chief of the Maintenance Division for the Directorate of Logistics at the Pentagon in Washington, D.C. There he was responsible for developing weapons system readiness requirements, providing maintenance policy guidance and disposition for over 5,400 aircraft across the Total Force. (U.S. Air Force photo by Jill Pickett)

December 16, 2019

‘Year-In-Review’ for AEDC—Testing

‘Year-In-Review’ for AEDC—Special Events

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See the January Services calendar on page 10.
‘Year-In-Review’ for AEDC Special Events

Incoming Arnold Engineering Development Complex Flight Systems Combined Test Force Director Lt. Col. John McShane, right, accepts the Flight Systems CTF guidon from AEDC Test Operations Division Chief Col. Keith Rossig during a Change of Leadership ceremony in the Propulsion Wind Tunnel Model Installation Building at Arnold Air Force Base. McShane came to Arnold from Washington, D.C. where he most recently served as a Program Element Monitor for Advanced Aircraft Technology at the Directorate of Special Programs, Assistant Secretary of the Air Force (Acquisition, Technology & Logistics), at the Pentagon. (U.S. Air Force photo by Bradley Hicks)

AEDC Test Operations Division Chief Col. Keith Rossig, left, hands the Aeronautics Combined Test Force guidon to Lt. Col. Lane Haudelit charging him with the responsibility of director of the CTF during a Change of Leadership Ceremony July 18 at the Sea Level 2 Test Cell at Arnold Air Force Base. Haudelit comes to Arnold from Boeing Air Force Base, Washington, D.C., where he was the Program Manager and Integrated Combat Sensors Branch Chief at the Air Force Rapid Capabilities Office. (U.S. Air Force photo by Jill Pickett)

2020 Air Force Marathon registration opens Jan. 1 with New Year’s resolution special

By Stacey Geiger
88th Air Base Wing Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – If you plan to ring in the new year with resolutions of becoming a healthier you, what a better way to stick to that commitment than to sign up for the 24th Annual Air Force Marathon. Registration opens at midnight Jan. 1 offering the lowest prices of the year with a New Year’s Resolution special.

“Last year we made a significant overhaul of the course, added a kids race and more entertainment and displays throughout the course,” said Brandon Hough, Air Force Marathon race director. “Based on the feedback, runners had a great experience so we hope to continue to make the Air Force Marathon bigger and better every year.”

After a successful turnout of the first kids run last year, the Tailwind Trot for children ages 4-12 will return and due to the popularity, the number of registrations will increase. In addition, the Fly! Flight! Win! Challenge will again offer the option to run either the half or full marathon along with the 5K and 10K to receive the special finisher medal.

New in 2020, a “virtual marathon” option will be available to allow runners from all over the world to join in from afar. “We have Airmen all over the world who want to be involved in this incredible annual tradition, but due to deployments, temporary duty assignments, remote assignments and a host of other reasons, they are not able to join us,” said Hough. “Adding a virtual option allows them to challenge themselves while taking part in the annual celebration of the Air Force Marathon.”

Participants can choose between the virtual half or full marathon and will need to run their selected distance between Sept. 12-27. Once runners submit proof of their accomplishment, they will then receive their finisher medal and race shirt. The virtual marathon option is open for all runners.

The New Year’s Resolution special will be valid through Jan. 3, and prices are as follows. Registration prices will increase throughout the year leading up to the Air Force Marathon on Sept. 19.

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<th>Distance</th>
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<td>Marathon</td>
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<td>Half Marathon</td>
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<td>Tailwind Trot</td>
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<tr>
<td>Challenge Series</td>
<td>$120</td>
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Military including Reservists and Guard members, can receive $10 off registration for the full, half and challenge or $5 off 5K or 10K.

Runners can register at www.usafmarathon.com by clicking the registration tab.

The Air Force Marathon, presented by Northrop Grumman, USAA and Boeing, is scheduled for Saturday, Sept. 19. The Health & Fitness Expo is held at Wright State University’s Nutter Center and is scheduled for Thursday, Sept. 17, and Friday, Sept. 18. The event will also feature a Breakfast of Champions and Gourmet Pasta Dinner scheduled for Friday, Sept. 18. The featured aircraft for 2020 will be the HH-60G Pave Hawk. Get more information about the race at www.usafmarathon.com

Incoming Arnold Engineering Development Complex Flight Systems Combined Test Force Director Lt. Col. John McShane, right, accepts the Flight Systems CTF guidon from AEDC Test Operations Division Chief Col. Keith Rossig during a June 26 Change of Leadership ceremony in the Propulsion Wind Tunnel Model Installation Building at Arnold Air Force Base. McShane came to Arnold from Washington, D.C. where he most recently served as a Program Element Monitor for Advanced Aircraft Technology at the Directorate of Special Programs, Assistant Secretary of the Air Force (Acquisition, Technology & Logistics), at the Pentagon. (U.S. Air Force photo by Bradley Hicks)
‘Year-In-Review’ for AEDC

Special Events

Nathan Harrison, left, watches as 1st Lt. Brad Landry, center, and 1st Lt. Karlie Madden play a friendly game of pool in the Arnold Lakeside Center during the Aug. 29 “Let’s Connect” event. “Let’s Connect” was a portion of the Resilience Tactical Pause at Arnold. In early August, Air Force Chief of Staff David Goldfein ordered all Air Force units to stand down for one day to focus on suicide prevention. The event at Arnold was held to comply with this directive and boost interpersonal connection among base personnel. (U.S. Air Force photo by Bradley Hicks) (This image was altered by obscuring badges for security purposes.)

Tribal Historic Preservation representatives Stephen Yerka, pictured from left at the table, of the Eastern Band of Cherokee Indians, Corain Lowe-Zepeda of the Muscogee (Creek) Nation of Oklahoma, Ted Isham of the Seminole Nation of Oklahoma, and Larry Haakey of the Pueblos of Creek Indians, listen May 21, to Col. Scott Cain, then-Arnold Engineering Development Complex Commander, give a presentation during a government-to-government Tribal Consultation at Arnold Lakeside Center on Arnold Air Force Base. The meeting, hosted by Arnold Air Force Base Cultural Resources, was held to provide a face-to-face government-to-government consultation with Tribal Historic Preservation Officers of federally recognized tribes. (U.S. Air Force photo by Jill Pickett)

The Arnold Community Council recognized five outstanding contributors to our nation’s aerospace excellence at the Arnold Engineering Development Complex headquartered at Arnold Air Force Base as AEDC Fellows for 2019. The Fellows were, from left, Gary Clower, Craft Fellow; Dr. Doug Garrard, Technical Fellow; Dr. Robert Howard, Technical Fellow; Dan Marren, Lifetime Achievement Fellow; and Anthony Taylor, Lifetime Achievement Fellow.

Mary Forde, an engineer and scientist at Arnold Air Force Base, left, shows Engineer for a Day participants around the Arnold Chemical and Metallurgical Lab on Feb. 20. The students, who were from area high schools, attended the event to learn about future career opportunities in engineering. (U.S. Air Force photo by Bradley Hicks)

CLOWER  GARRARD  HOWARD  MARREN  TAYLOR

The Arnold Community Council recognized five outstanding contributors to our nation’s aerospace excellence at the Arnold Engineering Development Complex headquartered at Arnold Air Force Base as AEDC Fellows for 2019. The Fellows were, from left, Gary Clower, Craft Fellow; Dr. Doug Garrard, Technical Fellow; Dr. Robert Howard, Technical Fellow; Dan Marren, Lifetime Achievement Fellow; and Anthony Taylor, Lifetime Achievement Fellow.
Athletes gathered May 2 at Tullahoma High School to compete in track and field events and bocce during the Tennessee Area 13 Special Olympics Spring Games. Thirty-three Arnold Engineering Development Complex team members, including military, Department of Defense civilians and contract personnel, signed up to volunteer at the event. They assisted in many areas, such as timing races, assisting delegations as they arrived and holding the finish tape.

Col. Charles Roberts, pictured, chief of the AEDC Test Support Division, addressed the athletes and supporters, noting the history of the Special Olympics, during the opening ceremonies.

(U.S. Air Force photo by Jill Pickett)

A Studebaker truck is on display at Arnold Air Force Base July 26 during a car show and barbecue hosted by the Arnold AFB Junior Force Council and Air Force Sergeant’s Association Chapter 477. Funds raised by the AFSAC chapter are used to support community events such as the Military Appreciation Day and the AEDC Children’s Christmas Party. In the past, the JFC has used the funds raised through the car show to purchase turkeys for Thanksgiving boxes distributed by the Deerfield Elementary Backpack Program. (U.S. Air Force photo by Jill Pickett) (This image has been altered by obscuring badges for security purposes.)

By Barbara McGuire

The AEDC Woman’s Club will hold its next meeting Jan. 9 at the Arnold Lakeside Center with a presentation by Crimson Rose Sugg, an independent filmmaker. She has worked on several award-winning films, including “Sum- mer of 67.” Sugg has worked as a director, an actor, and numerous other roles in films. Crimson Rose Production is her independent production company, and it is her desire to produce wholesome entertainment that upholds truth and goodness.

Table donations will be going to the Haven of Hope of Manchester. During the Dec. 5 meeting, the ARISTOCATS from Tullahoma High School performed Christmas music for the club. The annual Christmas Boutique was also held. Cookies baked by club members were collected to be given to the military. Donations by club members of unwrapped toys for area children were picked up by the Tullahoma Fire Department.

The social hour of the Jan. 9 meeting starts at 9:30 a.m., with the business meeting and program beginning at 10 a.m. Reservations must be made no later than noon Jan. 2. Make reservations by calling 931-393-2552 or 931-434-5413.

The AEDCWC meetings are open to the public and provide the opportunity to meet the members and become a member. You don’t need to have military connections or be involved with Arnold Air Force Base to visit and become a member.

For information about the AEDCWC, call the membership chairman at 446-872-7923.

Disclaimer: This is a private organization which is not part of the Department of Defense or any of its components and has no governmental status.

Melissa Goins, Nora Geraghty, Tullahoma Fire Department Assistant Chief Kenneth Pearson, Joan Hartvigsen, Kathy Saine, Susan Schultz, Jerri Roberts, and Virginia Sloan pose for a photo with a box filled with toys for area children during the December meeting of the AEDC Woman’s Club at the Arnold Lakeside Center. (Courtesy photo)
Defense, industry partners plan for future multi-domain conflicts

By Tech. Sgt. Charles Rivezzo
Air Force Academy Public Affairs

U.S. AIR FORCE ACADEMY, Colo. (AFNS) – The U.S. military finds itself at a flashpoint, shifting from a period focused overwhelmingly on violent extremism to state competition. It won’t be plans, tanks or planes that are the central differentiator in tomorrow’s conflicts, but the disruption of the ability of the U.S. to link and choreograph those elements together that will become a search and rescue factor, rather than an opportunity to become a search and rescue factor, rather than an opportunity to achieve future victory through multi-domain operations,” said Air Force Chief of Staff Gen. David L. Goldfein.

Goldfein explained this priority in a 2017 letter, adding that the evolution of our command-and-control capabilities is a new, thinking, new training and perhaps new technologies or new ways to use older technologies.

“This led to the implementation of Agile Combat Develop- ment, or ACE, a concept intended to ensure forward deployed forces are ready for contingencies with little notice.”

The National Defense Strategist dictates that ‘we develop a lethal, agile and resilient force capable of operating across a con- tinuum of conflict.’

Roughly two-thirds of joint military pilots have been stymied by the 5-feet, 1 inch stature could have stood in her way. Since the 1970s, Tighe’s 5-feet, 4-inch height and anthropometric measurements were at or near the maximum size for a conventional force. Tighe believes that if she were to become a manned pilot, the war fighter is able to access necessary mission data from any device, over any network, at any location regardless of classification,” Raduege said.

Col. Bill Waynick, Cyber- Wore mount, the director, led the initiative to analyze and address the chal- lenges to meet the ACE requirements within the Air Force and if I con- tinue to work hard I still feel like my dream job, I will still be able to do it” stop you. I’ve had multiple times when someone tells you ‘no you can’t do this.’

Tighe is scheduled to traveled to JB San Antonio- MacDill, Texas (AFNS) – Even once Mary Tighe, a 27-year-old from New York, was a child, she dreamed of following in her father’s and grandfather’s footsteps to become an Air Force pilot. Even though women have been Air Force pilots since the 1970s, Tighe’s 5-feet-4-inch stature and an instructor pilot. Tighe is graduated from Rochester College in Antholz, Kan- sas, in the spring of 2020. T-1A is the issue, we bring approved by the 19th Air Force photo by Johnny Chiang)

Mary Tighe, a pilot candidate and member of Reserve Officer Training Corps Detachment 280 at the University of Kansas in Lawrence, Kan., participates in a cockpit assessment Nov. 15. Tighe does not meet minimum height standards to be an Air Force pilot but has requested a height waiver. (U.S. Air Force photo by Jennifer Gonzalez)