AEDC Public Affairs

NFAC tests solutions to poor pilot visibility in inclement weather

By Jill Pickett
AEDC Public Affairs

The test team for the F-16 canopy water pooling visibility test stood beside the test article in the Arnold Engineering Development Complex National Full-Scale Aerodynamics Complex 40- by 80-foot test section, Dec. 1, 2020. (NASA photo by Dominick Hart) (This image has been altered by obscuring badges for security purposes.)

AEDC adds large-scale mass flow assembly calibration to test capability offering

By Jill Pickett
AEDC Public Affairs

The Arnold Engineering Development Complex team stood up a new capability in the 16-foot supersonic wind tunnel at Arnold Air Force Base, Tenn.—hardware calibration for engine inlet testing.

For an upcoming test, a Propulsion Tunnel Facility customer needed to calibrate their mass flow assembly, or MFA, for a propulsion integration test. The MFA consists of an aerodynamic interface plane (AIP), a mass flow plug and ejector. The MFA system is used to simulate the throttle lever angle’s (TLA) mass flow through the test article. A failure of the AIP or the needed uncertainty levels could not be found due to the large size of the MFA hardware.

The Flight Systems Test Branch stepped up to meet this customer’s need, and in a result additional customers quickly requested to use the new capability for their MFA calibration needs.

“MFA calibrations like this are unique in nature and are specific to wind tunnel testing,” said Nathan Payne, propulsion subject matter expert for the Flight Systems Test Branch. “In the past, our test customers have had their own facilities to do this work. However, as these facilities were shut, or are sold off, our customers need a new solution.

An MFA is attached to an aircraft model for testing in an aerodynamic wind tunnel. The MFA system is necessary to determine the accuracy of the mass flows being sent through the tunnel, which is used to simulate the conditions that the aircraft model will encounter during the test. This capability is an obvious transition seen by the Flight Systems Test Branch as they provide feedback and dynamic threats.

Kubernetes also offers better stability by running a back-up simultaneously. If a system were to fail, Kubernetes will automatically switch to a stable version without any obvious transition seen by the users.

Kubernetes, according to kubernetes.io, is an “open-source system for automating deployment, scaling and management of containerized applications.” The system is also portable across infrastructure providers, providing potential for making software portable across aircraft platforms.

During a previous testing event, the 586th FLTS successfully installed and grounded

By Jill Pickett
AEDC Public Affairs

The Arnold Engineering Development Complex’s National Full-Scale Aerodynamics Complex, or NFAC, recently added rain simulation to the organization’s portfolio of capabilities.

The F-1 System Program Office has been trying to address an issue with rain pooling on the canopy of the aircraft and reducing pilot visibility. Pilots try to avoid flying through inclement weather, but pop-up storms present an unmistakable risk. Because pilots avoid such flying conditions, field testing provides limited opportunities to gather data on proposed solutions.

The NFAC provided the means to test multiple potential solutions against a baseline in a safe, controlled and replicable environment.

“The NFAC team was tasked with simulating flight conditions for the F-16 (fighting falcon) approach, landing and roll-out, and various rain intensities in the facility’s 40-by 80-foot test section,” said Chris Nykamp, test engineering supervisor.

Water was sprayed onto the test article and then visibility was assessed using a camera showing the pilot’s perspective to view light rails that simulated runway lighting.

“Spraying water into the wind tunnel circuit during operations was a task that had never been done,” Nykamp said.

By Jill Pickett
AEDC Public Affairs

586th FLTS accomplishes Air Force first in development of Kubernetes

By Jill Pickett
AEDC Public Affairs

HOLLOMAN AIR FORCE BASE, N.M. – The 586th Flight Test Squadron, 75th Test Group, Arnold Engineering Development Complex, has taken Kubernetes supersonic.

During a flight test Dec. 11, a pilot and flight test engineer with the 586th “Roadrunners” flew a T-38 Talon with operational flight program, or OFP, software utilizing the Kubernetes framework installed on the instrumentation system of the aircraft. While Kubernetes has gone airborne previously on U.S. Air Force aircraft, the 586th FLTS is the first to fly an aircraft utilizing the system at supersonic speeds, an example of the Air Force continuing to push beyond the expected uses of the technology in the commercial environment.

“We have demonstrated that Kubernetes can be deployed on Air Force aircraft,” said Capt. Trevor Breau, assistant director of operations for the 586th FLTS. “Kubernetes enables rapid software development on the order of weeks instead of years. The faster software turnaround times allows the software developers to rapidly respond to user feedback and dynamic threats.”

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By Jill Pickett
AEDC Public Affairs

The Arnold Engineering Development Complex National Full-Scale Aerodynamics Complex 40- by 80-foot test section, Dec. 1, 2020. (NASA photo by Dominick Hart) (This image has been altered by obscuring badges for security purposes.)
Integrity

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 secondhand smoke. No smoking is permitted within 50 feet of golf course buildings or facilities. Tobacco is defined as cigarette, tobacco, or any other tobacco product, and includes any tobacco waste product, including sealed containers, must not be left unattended or disposed of in trash 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 other than DTAs. Tobacco products are subject to local, state, and federal laws, as well as Air Force Instruction (AFI) 40-102, Tobacco Free Living.

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Heavy Equipment crew at Arnold AFB helps keep roadways safe if winter weather strikes

Arnold Engineering Development Complex Heavy Equipment crew members Tony Buchanan, left, and Blake Braden, both laborers, prepare for possible winter weather by making a brine solution to be used on roadways, Jan. 6 at Arnold Air Force Base. (U.S. Air Force photo by Jill Pickle)

By Deidre Moon

AEDC Public Affairs

Though snow days are fairly rare and far between for Tennessee, whenever inclement weather does occur during the cold, winter months, the Heavy Equipment crew that oversees roads maintenance at Arnold Air Force Base is ready to tackle it head-on and keep the streets on base safe.

“When there’s a forecasted chance of snow or ice, our goal is to keep the roadways as safe as possible so we can get everyone to and from work,” said Tom Penfold, facilities manager for Base Operations and Support at Arnold.

Efforts to mitigate problems that arise due to inclement weather usually begin well before the frozen precipitation starts falling. Penfold explained that the Base Operations and Support team stays updated on the weather forecasts for Nashville and Huntsville and receives the National Weather Service updates daily, while coordinating with the base Operations Center on current base road conditions and forecasts. The intent is to stay at least 24 hours ahead of the inclement weather and prepare for what may arrive.

The Heavy Equipment crew has a highly-experienced team of skilled and trained truck drivers, equipment operators and laborers supporting response to winter events. The main response vehicles include two trucks with snow plows and salt spreaders, a third salt spreader truck and a parking lot salt spreader truck, in addition to a brine truck for pretreatment. The brine is mixed on base and applied as needed to the roadways before an anticipated cold weather event.

A large salt supply is maintained on base to be prepared for any winter events.

Eld Waltrip, supervisor for the Heavy Equipment crew at Arnold, said he appreciates the work of his team, who will at times have to come in during times they’re not regularly scheduled in preparation for inclement weather.

“Having a good crew makes my job easier, because it’s usually late in the evening or early morning when snow hits, and everyone always responds to the call,” he said.

Waltrip also asks everyone on base to do their part to stay safe in the event of inclement weather.

“The danger on the local roads is the traffic speed, so please take caution in inclement weather,” he said. “Please be aware of the crews working and keep your distance from the plow trucks.”

Vision

NAS delivers the best aerospace training capabilities today and in the future.

Values

Ethics. We are committed to professional integrity and ethical behavior. AEDC is the safest place to work. Safety is a way of life. We are interested in investing in the education, training and development of our people. We believe diversity is our greatest strength. We believe in quality and excellence in all we do.

Core Values

• Integrity First
• Servant Leadership
• Excellence in all we do

Continued Our Core Values

AEDC is a part of the Department of Defense, the Department of Energy and the Air Force, and is proud to serve the nation.

AEDC is operated by the Arnold Engineering Development Center, a wholly owned subsidiary of the Boeing Company.

Smokey Bear’s Message

Only you can prevent forest fires.

Aedc@arnold.af.mil

1-866-AEDC-2778

Arnold Engineering Development Complex, Arnold Air Force Base, TN 37389-1236. Editorial content is edited and prepared by NAS. Deadline for copy is Wednesday of the week before publication.

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The best way to prevent forest fires is to prevent them. Do your part to prevent forest fires.
Regina Bucher is first female Security Services Lead at Arnold AFB

Arnold AFB craftsman uses downtime to lift others up

By Bradley Hicks
AEDC Public Affairs

Many look to spend their vacations with their families in the sun, soaking up some rays at the beach. Others may prefer the seclusion offered by a stay in a mountain cabin. Still, some may enjoy the comforts of home and choose to “staycation” during their time off. David Taylor does not fit into any of these categories.

Taylor, a machinist in the Arnold Engineering Development Complex Model and Machine Shop at Arnold Air Force Base, has no desire to take it easy during his time away from work. Instead, he looks to get his hands dirty for a good cause.

“Taylor is part of a local group that uses their vaca- tion time to help those in need. The projects and other projects they may otherwise not be able to afford. While bringing physical and structural improvements to these residences is important, for Taylor and those working alongside him, these enterprise provide the opportu- nity to do something that is felt even greater – to witness to those they are helping.”

“Taylor adds the use of their vacation time to it because of the kids there. Roofing a house is to get the oppor- tunity.”

Taylor recalled a recent visit to Wyoming during which he worked on a leaky roof for a widow mother of five. The roof repair was not easy, as the project involved the removal of multiple layers of shingles and a layer of metal underneath them.

Taylor added that he needed to get floor repair, siding and all them were sitting there crying and happy, it was the best work he has ever done in my life. Because I came off that roof and all them were sitting there crying and happy, it made it all worthwhile.”

Taylor added that his group’s efforts, which are funded mostly through donations but also occasionally covered by the military, are a testament to the love and generosity of the people in the area.

“Taylor said. “That’s what it’s all about.”

Taylor added that these projects are a way for them to give back to the community and to provide an opportunity for others to see the good in others.

“Taylor said. “We’ve just going out there to help others and we’re just living our lives.”

David Taylor helps roof a home for a family in need in Worland, Wyoming.

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

By Deidre Moon
AEDC Public Affairs

With the recent hiring of Re- gina Bucher by Akima Inter-Da- vis, Arnold Air Force Base now has its first female leading the Facility Support Services (FSS) II Security Service contract role. Bucher serves as the new Security Services Supervisor at Arnold Air Force Base, working alongside the many other AEDC Public Affairs

Bucher added that she’s proud of the fact she is the first female to lead the Security Services contract at Ar- nold.

The position means a lot to me, and don’t take the responsi- bility lightly,” she said. “For Ar- nold AFB, we, as security, want to provide a safe and secure envi- ronment for those that work and live here. For the security of- ficers, I would like to thank them for the hard work they do. I want them to know that when they are happy to come to work and are proud of what they do.”

Ray Kelly, AAFES Chief Se- curity Forces, also welcomes Bucher to the team.

“Securing Arnold is a team effort,” he said. “I am looking forward to our continued team success. Our contract partners are critical to the success of the overall security mission.”

Regina Bucher, the new Security Services Supervisor at Arnold Air Force Base, stands in front of a village of photos showing security services personnel over the years in her office Dec. 9, 2020. She is the first female to lead the contractor security sec- tion. (U.S. Air Force photo by Deidre Moon)

Bucher said that she’s proud to be the first female to lead the Security Services contract at Ar- nold AFB. Bucher added that she’s proud of the fact she is the first female to lead the Security Services contract at Ar- nold. Bucher added that she’s proud of the fact she is the first female to lead the Security Services contract at Ar- nold. Bucher added that she’s proud of the fact she is the first female to lead the Security Services contract at Ar- nold.
The inlet in order to characterize the mass flow rate into engine operations, specifically stall margin and margin. The data gathered during the inlet testing are used to make distortion screens to replicate the flight envelope. Changes in the airflow can effect the current. The current scale and could not accommodate most OEMs do not have in their wind tunnel. A choked venturi for more accurate mass flow measurements. This measurement technique is used to achieve the number of measurements that need to be taken, which reduces information. Preserving quality and reduces overall measurement uncertainty.

"Our customers in the past have not had the ability to calibrate MFAs at different atmospheric pressures, which ensures no Reynolds numbers effect in the data," Payne said. "They also have not been able to provide dry air to the MFA resulting in humidity errors, or the need for a humidity correction. Last, in some cases customers could not keep the venturi choked for all flow rates needed.

The calibration is conducted by measuring the MFA to the scavenging scoop in 16S. The scoop was designed for the purpose of removing exhaust air from the afterbody for air-breathing engines to achieve subsonic flow conditions. The original design is a continuous venturi that was mounted inside the main scoop and turned on or off the front of the scoop via an adjustable plate. When not needed for MFA calibration, the scoop can be left open and returned to the standard configuration.

Standing up this new capability was accomplished through a collaboration of experts from around AEDC. Payne drafted the plan and did all the initial calculations. Computational fluid dynamics engineers then verified that the theoretical capability should be possible. From there, design engineers took over to design the hardware to ensure it could withstand the test conditions. Payne approached the Propulsion Test Branch to secure the venturi needed. Then, AEDC craftsmen fabricated the parts needed to modify the scoop and installed the hardware.

"AEDC was able to utilize the different skill sets here on base to retrofit the suction scoop and added a new metered airflow capability for our customers to an existing world-class facility," Payne said. The wind tunnel, known as 16S, has been the focus of a major multi-year effort to return the facility to service to provide additional testing capacity for large-scale models, and to expand the test envelope to include these models. This capability does not require the use of the main drive compressors, but did contribute to the return-to-service effort through checks of the data systems, which are verified once the tunnel is fully operational. Other systems checked out and utilized during the calibration were the control systems, the real-time data displays, and the analysis stations. The tunnel was also pumped down using the plenum evacuation system, providing an opportunity to exercise the tunnel, including valves that must be opened and closed for operations.

The high demand for the 16-foot transonic wind tunnel increases the importance of returning 16S to service and of this new capability. If the large-scale MFAs had to be calibrated in 167, this would be a significant loss of test time.

"The original design I had was to utilize the 16S scoop, however, as more customers showed interest, the 16S systems started to come online, and with a successful leak check of the 16S circuit, the 16S scoop presented itself as a viable test option," Payne said. "A walk-down of the flow path by the test operation engineers, my self and plant engineers; favorable CFD runs; and a fair and open test schedule as we knew we had found the right place for this capability."
**Arnold Air Force Base legal office offers virtual tax preparation assistance**

By Leslie McGowan

The 2020 income tax season has arrived, and the Arnold Air Force Base legal office is again offering its Volunteer Income Tax Assistance (VITA), a free service for eligible personnel.

The Arnold Air Force Base legal office is an approved drop off location for virtual tax preparation services. Individuals can submit electronically, online, or drop off their tax returns at the Arnold Air Force Base legal office at 931-454-7548, or at a point or meet with a VITA volunteer to drop off their tax documents.

**By AEDC Safety**

AEDC’s cold outside.

While Tennessee winters are usually mild, cold stress or hypothermia can be a problem at Arnold Air Force Base during the winter months, as in-air temperatures fall below 95 degrees Fahrenheit.

In addition to a low body temperature, symptoms of hypothermia include uncontrollable shivering and a change in a mental status from alertness to coma. Hypothermia may be visible in their skin.

In cases of hypothermia, muscle rigidity, dark skin and cold hands and feet, regular heart and respiration rates, and unconsciousness may be noted.

Frostbite can also be a concern. Symptoms often times include cold skin and a prickling feeling; numbness may not be present until the frostbite is severe. Frostbite occurs when skin is left exposed but also if clothing gets wet.

Frostbite can be treated as if frostnig, a mild form that does not permanently damage the skin. Avoided frostbite in both cases, hypothermia and frostbite, prevention and treatment is key.

Weather layered clothing. Eat a well-balanced diet to increase cold tolerance. Drink warm, non-alcoholic fluids to stay hydrated.

**Kubernets from page 1**

tested the hardware and software, including meeting a milestone necessary for the future of flight testing
to mitigate risks. Test personnel are working to ensure they obtain the necessary information to inform acquisition decisions, which drives down financial risks for the Air Force.

Kubernetes to the next level.”

On January 19, 2021 • 5

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Weather layered clothing. Eat a well-balanced diet to increase cold tolerance. Drink warm, non-alcoholic fluids to stay hydrated.

The successes mentioned were the bi-directional data sharing between the F-22 and the F-15, large scale test events such as Orange Flag, the development of the first-ever Space Test Flag, the development of the Transformational Capabilities Office, and many other things.

Azzano emphasized the importance of leaders cultivating healthy work environment, referencing the recent report of the Force’s Inspector General indicating a lack of racial disparity released Dec. 3, 2021. “As leaders we need to ensure that there is an environment that recognizes and respects for every one of our Airmen, our families, both civilian and military,” said Azzano.

Azzano commended on recent challenges the 412 TW faced in 2020. “It was a rough year for the 412 TW. There has been a lot of tragic loss and I encourage you all to reach out to the families and to look after each other,” he said.

He praised the test wing’s continued efforts behind executing the mission safely and adapting to the new operational environment. “Thank you for keeping our Nation’s sword sharp, its shield strong and its Airmen ready to deploy,” said the commander.

Azzano offered advice to the leaders surrounding recent social and economic stresses caused by the pandemic. “Be a voice of stabil- ity, calm, reason and reassuring to the new generation facing hardships found today,” he said.

He added, “we need to ensure that there is an environment that recognizes and respects for every one of our Airmen, our families, both civilian and military.”

Azzano focused on the recent success stories here at Edwards AFB, resiliency and the local COVID-19 response.

The successes mentioned were the bi-directional data sharing between the F-22 and the F-15, large scale test events such as Orange Flag, the development of the first-ever Space Test Flag, the development of the Transformational Capabilities Office. Without the data and information, the weapon would not work.

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By Airman 1st Class Shannon Moorehead
375th Air Mobility Wing
Public Affairs

SCOTT AIR FORCE BASE, Ill. (AFNS) – As a part of its one-year pilot program, the Ghost Robotics Vision 60 visited Scott Air Force Base during an evaluation of the robot’s capabilities.

“By no means is this meant to replace a real K-9,” said Senior Master Sgt. Marcos Garcia, ACC Detachment 3 Agile Battle Lab, AMC liaison. “It is simply a force multiplier and can even maybe save some K-9 lives. The experts in the field envision it supplementing a bomb team or leading a force protection.”

“This innovative piece of machinery was created to be a low-cost, low-risk force multiplier. Ultimately, this program has the capability of protecting a life.”

“The major selling point of this technology is that it’s meant to be expendable, whereas our Airmen are not,” said Master Sgt. Justin Hanlon, 375th Security Forces Squadron operations non-commissioned officer in charge. “We can replace parts on the ghost robot and get it back out to the mission, but the same cannot be said of a human being. The bottom line is this consents our commissi- ment to mitigating risk to our Airmen and protecting them from unnecessary danger.”

Equipped with integrated sensors, the Q-UGV can capture a high-definition video stream and thermal imaging, and boasts an infrared configuration. The Q-UGV also utilizes legs that can attain a current speed of seven feet per second and has been tested to outperform wheels, tracks and drones for certain uses in the field.

Instead of using a human being as a sentry, imagine a mobile sensor with a high-definition, wide-angle camera and long-range capabilities being controlled by a trained Airman from the safety and security of a Base Defense Operations Center or a Theatre Operations Center in both a garrison or contested environment,” Hanlon said.

During the evaluation at Scott AFB, the ABL sought the insight of force professionals on improvements to the robotic K-9.

“We are a team of motivated innovators and we have many talented Airmen with great ideas,” Garcia said. “We want to harvest those great ideas and bring them to fruition so we can bring our Air Force into the future.”

While the implementation of this technology is still in its infancy, it has the potential to bring the Air Force into a new era of warfare. The ghost robot has potential to aid the enterprise in getting away from the past where we had Airmen walk wingtip to wingtip on flying as- sets,” Hanlon said. “We can employ our manpower smarter and more effi- ciently and this may be a small step to that comple- tency.”

As the Air Force looks to close gaps and move towards Agile Combat Employment and Joint All Domain Command and Control, the use of new innovative technol- ogy like the Q-UGV may become common across military installations as we seek to enhance mis- sion effectiveness.

All byte, no bark for ‘robotic K-9’

By Airman 1st Class Shannon Moorehead
375th Air Mobility Wing
Public Affairs

Staff Sgt. Carmen Pontello, 375th Security Forces Squadron military working dog trainer, introduces Hammer, 375th SFS military working dog, to the Ghost Robotics Vision 60 at Scott Air Force Base, Ill., Dec. 17, 2020. The Vision 60 resembles a K-9, but is not designed to replace MWDs. (U.S. Air Force photo by Airman 1st Class Shannon Moorehead)

Airmen assigned to the 375th Security Forces Squadron function check the Ghost Robotics Vision 60 semi-autonomous robot dog before a demonstration at Scott Air Force Base, Ill., Dec 14, 2020. The robot dog utilizes an adaptive communication system allowing the machine to operate on a series of preset commands or when operated manually. (U.S. Air Force photo by Airman 1st Class Shannon Moorehead)
By Jill Pickett
NAS Public Affairs

NextGen, a National Aerospace Solutions, LLC (NAS) group of early-career employees focused on networking, professional development, and stewardship, is looking to build upon the accomplishments of 2020 as they move into the new year.

“NextGen exists to meet the needs of those who are within their first five years of work at Arnold Air Force Base,” said Gareth Penfold, newly-elected NextGen President for 2021. “We strive to connect new employees with others who are in the same stage of their career, as well as provide them with resources and connections for their future.”

New officers were recently elected for the organization, which serves employees of NAS and those of teaming subcontractors, Chugach and nLogic. Despite their 2020 schedule of events being disrupted by the COVID-19 pandemic, NextGen held two social events and multiple lunch-and-learns this year. The latter included partnering with Ascend Federal Credit Union for a series on finance-related topics. The most recent lunch-and-learn featured a tour of the Arnold Engineering Development Complex (AEDC) Propulsion Wind Tunnel Main Drive at Arnold Air Force Base.

“The tour allowed our members an opportunity to see some of the capabilities and work that takes place outside of their assigned work areas,” Penfold said.

The organization looks to continue along this theme with a 2021 monthly series of lunch-and-learns focused on the capabilities of AEDC and tours of the test cells and supporting facilities. While COVID-19 precautions are expected to be necessary into 2021, NextGen offers exciting ways to safely and responsibly host social events for its members.

The goals for the organization include a continued focus on improvement.

“We plan to hold forums for NextGen members to express their thoughts and ideas on how to improve NextGen to better meet the needs of its demographics,” Penfold said.

Community involvement is also on the agenda for the organization in 2021 through partnering with local nonprofits and educational institutions.

For more information on NextGen, call 931-454-6140.

NAS NextGen 2021 Officers

• President: Gareth Penfold
• Instrumentation, Data and Controls Engineer, Aerodynamic and Propulsion Test Unit Test Operations; Space and Missile Branch
• Professional Networking Chair: Rob Forde
• Instrumentation, Data and Controls Engineer, Flight Branch
• Stewardship Chair: Scarlett Taylor
• Reliability Engineer; Asset Health Assurance Branch

National Aerospace Solutions, LLC, NextGen 2021 officers pose for a photo, Dec. 16, 2020. Pictured, front row from left, Gareth Penfold and Daniel Thomas; second row, Benjamin Manipadam; third row from left, Rob Forde and Erik Graubner; and fourth row, Scarlett Taylor. (Participants maintained social distancing in compliance with Centers for Disease Control and Arnold AFB guidance.)

National Aerospace Solutions, LLC, NextGen “group sets goals for 2021

National Aerospace Solutions, LLC NextGen 2021 officers pose for a photo, Dec. 16, 2020. Pictured, front row from left, Gareth Penfold and Daniel Thomas; second row, Benjamin Manipadam; third row from left, Rob Forde and Erik Graubner; and fourth row, Scarlett Taylor. (Participants maintained social distancing in compliance with Centers for Disease Control and Arnold AFB guidance.)

Arnold DAF Police Officers receive new SUV

Sgt. George Blasingame, a Dept. of the Air Force Police Officer at Arnold Air Force Base, parks at a pull-off along Wattendorf Highway to watch for motorists committing moving violations, Dec. 17, 2020. DAF Officers began patrolling Arnold in late August. The SUV driven by Blasingame was recently acquired for the new force, and another SUV is also on order. Motorists traveling Arnold AFB roadways should be mindful that the DAF officers can issue citations for moving violations. Motorists who are cited for moving violations on Arnold AFB property are assessed points. Points are entered into the Air Force Justice Information System and assessed against their on-base driving record. Accumulation of 12 points in 12 months or 18 points in 24 months normally results in loss of driving privileges for up to a year. If someone gets caught driving during their revocation period, an additional year is usually added to the penalty.

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

National Aerospace Solutions, LLC, NextGen 2021 officers pose for a photo, Dec. 16, 2020. Pictured, front row from left, Gareth Penfold and Daniel Thomas; second row, Benjamin Manipadam; third row from left, Rob Forde and Erik Graubner; and fourth row, Scarlett Taylor. (Participants maintained social distancing in compliance with Centers for Disease Control and Arnold AFB guidance.)
Air Engineering Metal Trades Council Elects Its New Officers

The newly elected officers of the Air Engineering Metal Trades Council gather for a photo on Jan. 5 at Arnold Air Force Base. Pictured starting from back left down: Michael Buckner, Annette Painter, Alvin Cleek and Tim Orange. Second row: Chris Cleek, Kevin Glaser, Jason Kelley and Tommy Anderson. Not pictured: Allen Garner, Mike Riddle, Ricky Taylor and Brian Farless. (U.S. Air Force photo by Deidre Moon) (This image has been altered by obscuring badges for security purposes.)

By Deidre Moon
AEDC Public Affairs

The Air Engineering Metal Trades Council (AE-MTC), Arnold Engineering Development Complex’s largest union, has elected its new officers. The new officers include: Alvin Cleek, President; Allen Garner, Vice President; Jason Kelley, Recording Secretary; Annette Painter, Financial Secretary; Kevin Glaser, Sergeant-at-Arms; Chris Cleek, Ricky Taylor and Mike Riddle, Trustees; and Brian Farless, Tim Orange, and Michael Buckner, Grievance Committee members.

The AEMTC officers will each serve three-year terms.
WRIGHT-PATTERSON AIR FORCE BASE, Ohio – To ensure the command and the Air Force has a strong leadership base to fly, fight and win into the future, the Air Force Materiel Command continues to encourage personal at all levels to participate in mentorship programs in 2021. “Our job as leaders is to prepare the next generation to take our place,” said Gen. Arnold W. Bunch, Jr., AFMC Commander, in a recently released mentoring video. “Part of being a mentor is sharing some journey lessons so that we make sure the next generation is ready to step in without missing a beat.”

In conjunction with January’s National Mentoring Month, the AFMC Mentoring Team has refreshed the program’s focus, tying mentoring more closely to the command-wide AFMC We Need initiative.

“Mentoring is a crucial part of professional development at all levels,” said Mandy Smith-Nethercott, AFMC Career Development Program Manager and mentoring team lead. “Our program focuses on the relationships that can build between a junior and senior Airman or civilian that provides for reciprocal exchange of information and growth at all levels. Mentoring can help us to build a workforce for our current and future workforce.”

As part of the refresh, the mentoring team drew inspiration from the word “need” to emphasize how mentoring enables the development process. According to Smith-Nethercott, mentoring provides a platform to, “Nurture, Educate, Encourage and Develop our current and future workforce.”

Nurturing: Mentoring enables a person to pass along knowledge, experiences, successes and failures to help another in their career journey. By guiding through open and honest dialogue and exchange, mentoring enables a nurturing relationship that promotes career and personal growth in another.

Educate: Rather than focusing on the skills that a protege lacks, an inspirational mentor helps a person to develop their strengths while introducing educational paths and opportunities that can help them attain a higher level of proficiency in work and life.

Encourage: Mentoring relationships do not solely focus on one’s successes. Mistakes and opportunities to improve are shared in an effort to help another improve. Resilience is an important quality in any line of work, and mentors can help a person develop this skill while providing an opportunity for a person to talk openly about any topic related to their career or personal ambitions.

Develop: The mentor’s role is to guide and help the mentee develop themselves both professionally and personally. Mentors may be able to help a mentee in different ways such as growing the mentee’s network, overcoming challenges with their role, creating a career path, and creating long-term career goals.

To learn more about the AFMC Mentoring Program and access videos and resources, including Bunch’s mentoring message, visit https://go.usa.gov/xANQU or by sending an email to afmc.pa.workforce@us.af.mil. Pre-event submissions will be accepted until Jan. 27.

All personnel are highly encouraged to submit questions by the deadline to increase the likelihood that they will be answered during the live event. Any questions submitted during the event will be answered subject to time limitations. The full video will be available following the event along with a transcript for review by those unable to watch live.

Questions regarding the event can be sent to the AFMC public affairs office.