AEDC: 25 years of supporting the warfighter for AFMC

By AEDC Public Affairs

With more than two decades now under its wing, Air Force Materiel Command has provided 25 years of support to America’s warfighters.

Since the dedication of the AFMC July 1, 1992, AEDC, an Air Force Test Center organization, has played a major role in warfighter development.

Headquartered at Wright-Patterson AFB, Ohio, the command is based on the concept of Integrated Weapons System Management. This concept enables one command to provide “cradle to grave” development and support for weapon systems and gives Air Force operational commands a single source of expertise and support for their aerospace systems.

AFMC is responsible for weapon systems such as aircraft, missiles and spacecraft that are developed and acquired through AFMC’s product centers, using science and technologies developed at their affiliated laboratories.

The systems are then tested at the command’s test centers and are serviced, overhauled and modified at its air logistics centers. At the end of their service lives, aircraft are retired to AFMC’s storage and reclamation facility in Arizona.

AFMC also provides support to other U.S. military services and allies in addition to its responsibility of handling major aerospace projects for the DOD.

AEDC is one of the main test and evaluation organizations for AFMC’s AFTC. Based out of Arnold AFB, AEDC also has operating locations at the Federal Research Center at White Oak near Silver Spring, Maryland, at Ames Research Center, in Mountain View, and at Edwards AFB, California; Eglin AFB, Florida; Holloman AFB, Kirtland AFB, New Mexico; and at Wright-Patterson AFB.

AEDC offers a suite of test capabilities to simulate speed, temperature, pressure and other parameters over a wide range to meet the needs of aerospace system development.

The Complex has provided AFMC with 25 years of testing the latest warfighters, such as the Air Force’s F-22A Raptor and its Pratt & Whitney F119 engine, and the F-35 Lightning II Joint Strike Fighter and the Pratt & Whitney F135 engine.


(U.S. Air Force photo/Tech. Sgt. Larry E. Reid Jr.)

AEDC contributions to the warfighter

A model of an A-10 Thunderbolt II, more commonly known as “The Warthog” due to its unique shape, underwent a pressure-sensitive paint (PSP) test in the AEDC 16-foot transonic wind tunnel in 2013. PSP was used to get surface pressure data on the model. (U.S. Air Force photo)

Maj. Gen. Harris speaks at 2017 AEDC Fellows Banquet

Maj. Gen. David A. Harris, the Air Force Test Center commander and speaker for the 2017 AEDC Fellows Banquet, is shown with retired Maj. Gen. Mike Wiedemer, AEDC Fellow and Arnold Community Council Fellows Committee chairman, at Arnold Air Force Base June 23. Five current and former AEDC employees were inducted as AEDC Fellows during the banquet. (Courtesy photo/Claude Morse)

See AEDC Fellows photos on page 4.
**SUPPORTING from page 1**

AJOE 16-50 Freshman Off-Wrap, GBU-32 (1,000-pound Joint Direct Attack Munition) and PaveWay IV, from internal and external weapons stations of the Short Take-off and Vertical Landing and Carrier Variant versions of the JSF aircraft. Data include store performance, trajectory and capture. Results from the test have supported internal and external weapons separation characteristic evaluations and structural analyses for various aircraft weapons loadings.

**Smoking Policy**

The following revised Arnold AFB smoking policy is effective immediately and applies to all individuals on Arnold AFB:

1. Tobacco products (cigarettes, cigars, dissolvable nicotine products and other similar products) are not permitted on Arnold AFB. All activities conducted within 15 feet of building entry/egress points are subject to the Smoking Policy.

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**Vision**

- Safety: Health, safety, and environmental excellence.
- Excellence: Excellence in all we do.

**Values**

- Integrity: Ethical and honest behavior.
- Respect: Treat everyone with respect.
- Honor: Honor, loyalty, and integrity.
- Innovation: Innovation and continuous improvement.
- Heritage: Honor our history and traditions.
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AIAA Tennessee Section presents 2017 Awards

By Raquel March
AIAA TN Section Editor

The American Institute of Aeronautics and Astronautics Tennessee Section recently held an annual awards luncheon where professional engineers were recognized for their significant technical accomplishments, outstanding achievements and support to AIAA Sec tion activities.

Sara Rhoades Special Award: For out standing contributions to the successful demonstration of a prototype awdit generator

Chris Rudolf Special Award: For development and application of innovative measurement techniques in support of arc heater test facilities

Dustin Crider Booster Award: In recognition of outstanding advocacy and support of STEM outreach events within the community

Mark Smith Special Award: For his leadership and technical contributions in completing rigorous facility analyses to demonstrate the mid-pressure arc heater capability

Joseph Giuffrida Billy J. Griffith Engineer ing Award: In recognition of exemplary Test & Evaluation support to an acquisition program using a store separation analysis methodology that combines computational fluid dynamics and ground test data

Joseph Shealy The General H. K. Arnold Engineer ing Award: In recognition of his outstanding contributions toward advancing the state of the art of the aerodynamic and atmospheric sciences

Doug Garrard Special Award: For technical contributions and orchestrating facility requirements for the first Aeronautical and Propulsion Test Unit direct connect test

Daniel Beale The General H. K. Arnold Engineer ing Award: In recognition of his outstanding contributions toward advancing the state of the art of the aerodynamic and atmospheric sciences

The sale of firewood permits to the general public for $5 is conducted through the Arnold AFB Services Office for cutting on base property. Instructions and terms of use are provided in the permit. Permits allow two weeks from the date of purchase to access the permit. No firewood cutting is allowed on weekends during the deer hunting season. Only downed trees may be cut on site and must be a be cut to five trees or trailer-load of firewood per year. Permission is required to change any cut material. The permit must be kept in the possession of the permit holder at all times while cutting, loading and hauling firewood and are subject to a compliance inspection by Arnold AFB or the Tennessee Wildlife Resources Agency at any time. Permits cutting firewood are required to remove all cut tops and debris from roadways and drains and are required to comply with applicable governing regulations, federal and state local, and safety standards.

It is not lawful to harvest any other plants or forest products within the 40,000 acres at Arnold. Arnold AFB was used for Army live-fire training during WWII and unidentified explosive ordinance, known as UXOs, still exist today. Designated walking trails and recreational areas have been swept and cleared of UXOs.

Items such as meteorites, rocket motors, grenades and anti-tank mines are still occasionally found by hunters and hikers in the forest of Arnold AFB even after years of munitions remediation programs efforts to locate and dispose of such items. Always remember the golden rule – If you don’t drop it, don’t pick it up. More information on identification and how to respond to finding a UXO can be found at a TWR kiosk. If you have any questions about the munitions remediation program, call 454-4185. Never go alone, if possible, and always let someone know your plans. Cell phone coverage on Arnold AFB is limited and you may not be able to contact help should you need it. Let someone know exactly where you are going and what time you will return. You can use Google Maps to pinpoint the destination and give the GPS coordinates to someone who should you fail to return in time.

Stay hydrated and wear the proper clothing and shoes for the environment.

John McKeever, Arnold Air Force Base Services Branch, AEDC Commander Col. Rodney Tedder and Daniel White, Arnold AFB Civil Engineering Branch, cut the ribbon at the grand opening and ceremony June 20 for the Dogwood Ridge recreation area at Arnold Air Force Base. Dogwood Ridge has four fully equipped cabins with access to Woods Reservoir shore and beach area. Each cabin has heat and air, a kitchenette, bathroom, downstairs and loft bedrooms, living room, and dining area. All cabins have a double bed, two twin beds and a futon which folds out to a double bed. (U.S. Air Force photo/Rick Goodfriend)
Five inducted at AEDC Fellows Banquet

Five current and former AEDC employees were inducted as AEDC Fellows during a banquet and induction ceremony. June 23 at the Arnold Lakeside Center, Arnold Air Force Base. AEDC Fellow Dr. Bill Kimsey presents the AEDC Fellows plaque to new AEDC Technical Fellow Bill Bates. (Courtesy photo/Claude Morse)

AEDC Fellow Dr. Jim Mitchell presents an AEDC Fellow Plaque to new AEDC Technical Fellow Dr. Gene Callens while son Eric (right) watches.

Cyndi Clower-Profferer assists AEDC Craft Fellow Bill Scott in pinning new AEDC Craft Fellow Annette McCullough.

AEDC Craft Fellow Bill Scott pins new AEDC Craft Fellow Pete French.

What you should know about excavating and trenching safety

By AEDC Safety

The goal of the monthly Safety Condition Campaign is to identify conditions that make compliance with safety requirements a challenge, to ensure we are in compliance with the Air Force safety standards, and to establish consistency across our work locations. We will continue to send out periodic updates on our results.

We have already completed these focus areas: fall protection, barricades and signs, lockout/ tagout, confined spaces, electrical hot work and lifting and rigging. Our efforts have so far resulted in successfully identifying areas that need to be improved. In each case, a short term solution was identified and the process for identifying longer-term fixes has begun. Thanks to all who have participated in this campaign to date. Your actions are making our workplace safer.

For the month of July, our Safety Condition Campaign focus is Excavation and Trenching. Safety, Health and Environmental Standard C6 on Excavations, Trenching and Shoring describes the tasks, activities and actions required when excavations or trenching operations are to be performed at Arnold Air Force Base.

The principal hazard of excavation work is death by suffocation or crushing when exposed soil falls and buries the workers. Workers are also subjected to hazards of falling materials, tools, equipment, and to the hazards involving with digging into energized/presurized utilities such as electrical, water, steam, fuel and natural gas lines. An additional concern is the potential for an oxygen-deficient atmosphere. Muddy conditions (common to excavations) increase dangers of slips and falls. Hazards of striking or being struck by objects are increased by congestion of personnel, materials, and equipment. Additionally, vibrations from heavy equipment or nearby vehicle traffic can cause soil to become unstable and collapse.

Employees are expected to know the hazards associated with their work in and around excavations and ensure these hazards are properly addressed according to training received.

The SHE Standard C6 for Excavations, Trenching and Shoring also has the following requirements regarding exposure to vehicles/equipment:

- Employees are not normally allowed in an excavation, in close proximity (closer than 10 feet) to heavy equipment, and must remain visible and out of the swing zone while the equipment is digging; however, it is recognized that it sometimes becomes necessary for a person to enter an excavation for the purpose of guiding the equipment operator when digging is required in close proximity to a known buried object, or when an unknown buried object is detected. When it becomes necessary for a person to enter the excavation and be in close proximity to heavy equipment, while it is digging, the following shall apply:
  - Contractor Safety and Health shall be notified and shall approve the entry for AEDC employees. This can be accomplished telephonically; in addition, the following is required for all personnel:
    1. A member of supervision/management shall be present, and
    2. When excavation is deeper than 4 feet, the employee shall be protected by adequate protective system(s) and shall not be allowed outside of protected area.
  - Employees outside of and exposed to vehicular traffic shall be provided with and be required to wear reflective vests or other suitable garments marked with or made of reflectorized or high-visibility materials.
  - Trained flag persons, signs, signals, and barricades shall be used when necessary.
  - Exposure to Falling Loads:
    1. No person shall be permitted under loads handled by lifting or digging equipment.
    2. No employee shall remain near a vehicle being loaded or unloaded. Operation may remain in the enclosed cab of the vehicle.

"Anthea is a training tool"...
ICBM Country: Ogden Air Logistics Complex

restoring Air Force’s nuclear launch facilities

By Micah Garbarino

HILL AIR FORCE BASE, Utah – As the nation enters the nuclear age, ensuring an effective strategic deterrent now and into the future is the first in a two-part series.

For more than 50 years, rural American communities in the Great Plains have housed a key leg in the air, land and sea-based strategic deterrent — ready Airmen controlling highly-survivable, nuclear-armed Minuteman III intercontinental ballistic missiles.

 Depot-level maintenance of the boosters, launch controls, launch facilities, and key support equipment for the Minuteman III is performed by Hill’s 309th Missile Maintenance Group, part of the Ogden Air Logistics Complex. The Air Force has 150 launch facilities and 15 associated launch control centers “deployed in place” at each of three locations – Malmstrom AFB, Montana; Minot AFB, North Dakota; and F.E. Warren AFB, Wyoming. The Airmen and ICBMs are “on strategic alert” around the clock to respond to orders from the President.

To comply with the New START treaty, the United States is reducing the number of ICBMs that are on strategic alert from 450 to 400. That means 50 launch facilities in reserve. This enables the Air Force to plan and execute a Programmed Depot Maintenance (PDM) effort for the first time in the life of the weapon system.

The launch facilities are organized into silos, each with a 110-ton blast door for protection. All of the silos are networked together and controlled by Missile Combat Crew members in underground blast-proof launch control centers.

This is the first time since 1971, when the Minuteman III fleet first became operational at Minot AFB, that a portion of the Minuteman III fleet is being relieved of its combat assignment enough to receive PDM in the same way aircraft have for decades.

“We’re taking advantage of that down time to restore vital hardeness-critical systems to full mission capability – repair water leaks, mitigate corrosion, and generally posture the weapons system to remain safe, secure and reliable until the Ground Based Strategic Deterrent program (next generation ICBM) can achieve full mission capability in the mid-2020’s,” said Col. Eric Jackson, commander of the 309th Missile Maintenance Group. “These are all things we couldn’t do effectively – or at all – while the launch facility was on strategic alert.”

The entire Minuteman III fleet will be inspected and restored during the course of an eight-year cycle. The maintenance process takes about 50 days for each launch facility or launch control center.

The effort targets four major areas through an eight-year cycle: launch facility, launch control center, solid-rocket booster (stages 1, 2 and 3), and liquid-propellant propulsion system rocket engine.

“We have Airmen right now, as we speak, defending the homeland, and that nuclear deterrent underwrites the homeland, and that nuclear deterrent now and into the future. This is the second in a two-part series.”

Editor’s Note: Hill Air Force Base, Utah. (U.S. Air Force photo by Todd Cromar)

A new storage container used for maintaining missile launch facilities and control centers sits on display Jan. 25 at Hill Air Force Base, Utah. (U.S. Air Force photo by Todd Cromar)
capabilities was to acquire an entirely new weapon system, the GBSD. Developing and fielding this system has been called a "foundation" priority by service leaders.

The warfighter needs these capabilities and we must make incremental improvements to Minuteman III. It would be like taking your VHS player and trying to make it a Blu-Ray player, Collins said.

Government and contract workers at the ICBM Complex, headquarters of the Air Force’s portfolio of Minuteman III systems, and the associated systems and components, are being added this year. Twenty-three contractors and other government agencies are being added to the GBSD program’s design and production. Department of Energymultisystem and multimission teams build and receive comments back. We had more than 250 discussions with industry to review the request," Collins said. "We want to make crystal-clear that we understand exactly what the government is looking for. We are being as transparent as possible to better inform them and, in turn, receive better proposals from them.

The program is currently in the Technology Maturation and Risk Reduction phase. Collins says it’s hard to say exactly how many new jobs the program will bring to Utah but there will definitely be an increase during the decade-long overlap with Minuteman III. Eventually, the competition will narrow to one supplier who will finish the design of the weapon system and produce missiles. Collins said the plan is for the first missiles to be produced by July 2023. The final design of the weapon system and production will be completed in the 2030s, Collins said.

During the entire time, the men and women of the ICBM Systems Directorate will continue to oversee the process. "Hill is ICBM country. We're very humbled by the opportunity we have and very honored to do it," Collins said.

Who will build it and what's Hill's role? The new weapon system will be produced by a defense contractor, selected by the Air Force. Collins said it’s hard to say exactly how many new jobs the program will bring to Utah but there will definitely be an increase during the decade-long overlap with Minuteman III. Eventually, the competition will narrow to one supplier who will finish the design of the weapon system and produce missiles. Collins said the plan is for the first missiles to be produced by July 2023. The final design of the weapon system and production will be completed in the 2030s, Collins said.

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Connection saves lives: Be there to help prevent suicide

By Peter Holstein
Sergeant General Office of Public Affairs

FALLS CHURCH, Va. (AFNS) — You can make a difference for someone struggling with suicidal thoughts with as little as a smile, an arm around the shoulder, or a simple, everyday action really can save a life.

Recognizing that someone is at risk of suicide isn’t always possible. There isn’t always an obvious or consistent way they are struggling with suicidal thoughts. People can hide or compartmentalize the underlying stress that led to their behavior. In this instance there are things you can watch out for.

- Risk factors and warning signs,” said Link.
- Risk factors are some of the factors that we sometimes see, like relationship, legal, financial or workplace problems. There may be more behavior changes that can include mood swings, irritability, anger, depression or social withdrawal.

This can be especially true for people who are usually outgoing and energetic. It can be a sign if they start avoiding eye contact, skipping social events and stop associating with friends, colleagues or coworkers. Drug or alcohol abuse is another critical indicator that a person may be dealing with issues that could lead to self-harm.

There are other some warning signs that you should be aware of who are usually engaged and out-going, who are usually outgoing and energetic.

If you are concerned about a person, start by just talking to them. It may seem simple, but only can it help you get a sense of whether something is bothering them, it also reinforces relationships and can keep the person from feeling isolated. Being attentive and showing you are struggling with suicidal thoughts or depression can encourage them to open up and tell you that they are having trouble.

“We can’t always know what our coworkers or colleagues are dealing with,” said Link. “Taking the time to know one another and learning our way to help each other can change the culture. Small acts of kindness, small moments of connection can make us all safer.”

For more information about suicide prevention and additional resources, visit the Air Force Medical Service Suicide Prevention webpage, or the U.S. Air Force Wingman Online webpage. If you are having suicidal thoughts or are worried that someone you know may be you can call the National Military Crisis Line at 1-800-273-8235 and press ‘1’ for assistance.

Cleared hot: When predators and reapers engage

By Airman 1st Class James Thompson

CRECHE AIR FORCE BASE, Nev. (AFNS) — Following the mission brief and pre-flight checks, an aircrew consisting of an officer pilot in command and a career unverified aviator sensor observer operate a target area of responsibility overseas from a cockpit in the U.S. and waits for the green light from a joint terminal attack controller on the ground to approve the strike and initiate the situation.

The aircrew then reviews checklists before engaging, adrenaline begins to spin and in the swirling from electronic components in the cockpit reoccur their concentration sharps and as the pilot spokespersons the trigger, a laser-guided AIM-9M Sidewinder missile.

Two different types of strikes that occur in theater. “They define the specific requirements as those rules of engagement must be satisfied,” said Brian. “Anytime a munition is employed or dropped by any platform to include our MQ-1s and MQ-9s, bomber aircraft.”

Operational procedures apply to all aircraft users. “It’s CAS procedures the same for all U.S. military,” said Brian. “It’s a joint publication that defines the procedures.”

Certain factors determined by the CAS doctrine and the varying length of time in the confirmation of targets, emphasize the need for persistent and precise attack capabilities provided by the multi-role MQ-1 and MQ-9: “Personally, I’ve eliminated enemy forces that were engaged in the area very important to employ quickly and efficiently and the MQ-9 is one of the best assets in the Air Force to accomplish this,” said Chris. The routing process to target identification to strike can take place anywhere from a few seconds to several hours depending on the situation and signification. Unbeknownst to most people, the multi-role MQ-1 Predator and MQ-9 Reaper are coordinated through specific routing chains well before weapons employment to ensure the fulfillment of combat direc-

In the right circumstances, those simple, everyday actions really can save a life.

From a fellow Airman seems to be struggling, make genuine gestures,” said Link. “Have lunch with them, talk to them and include them. Ask them how they are doing, or about their family. Stop by their desk and share a little bit about yourself.”

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Recognizing that someone is at risk of suicide isn’t always possible. There isn’t always an obvious or consistent way they are struggling with suicidal thoughts. People can hide or compartmentalize the underlying stress that led to their behavior. In this instance there are things you can watch out for.

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AEDC Contributions to the warfighter

(U.S. Air Force photos)

B-52 Stratofortress tested in the AEDC Propulsion Wind Tunnel 16-foot Transonic Tunnel in 2011.


In 1996, a scale model of the Global Hawk was tested in the AEDC 16-foot transonic wind tunnel.

Pratt & Whitney F135 engine tested in the AEDC Engine Test Facility SL2 test cell in 2014.

AEDC outside machinist makes adjustments to a model of a GBU-31 Joint Direct Attack Munition (JDAM) before F-35 Lightning II store separation testing in the four-foot transonic wind tunnel in 2007.


Arnold AFB Commissary

Residual Case Lot Sales Specials

While the Case Lot Sale has come & gone, we still have products left over at GREAT PRICES!

Meat
Boneless Pork Shoulder Roasts are on sale while supplies last.

Commissary brands began their debut on U.S. store shelves in May, ushering the Defense Commissary Agency into a new era of patron savings.

“We are excited to finally begin offering commissary brands,” said DeCA Director and CEO Joseph H. Jeu. The initial rollout started at the end of May with bottled water for commissaries in the U.S. Plastic bags and paper products were soon to follow.

Overseas stores are expected to see commissary brand items in the September timeframe. Visit our web site to find out more.
when I came here."

"I wasn't looking for a job if I wanted to interview. I approached me and asked for my friend, the man waited in the A&E lobby at AEDC – in the lobby. how it all started for him last time, he remembered building lobby for the administration and Engineering waters. ing over to test the retire -

"What we do is actually key guys working," said Capt. Grant Tong, the 386th Expeditionary Medical Group physical therapy ele -

"When injuries occur, we help them return to duty as quickly as possible. We help decrease the down -

"The physical therapy clinic at the 386th AEW is relatively new, with its es -

"When we are not out -

"Anytime someone comes out of that medical facility," said Gar -

"When we are not out here doing what we can to help keep the service members all four branches, and coalit -

"Physical therapy can decrease the severity of the injury along with helping the member actually get better and return to duty quickly."

"We help decrease the down -

"The physical therapy clinic at the 386th AEW is..."
Information subject to change. Please call before visiting.

Services are open to base employees, to include retirees, Dependents of military members, Department of Defense civilians, and associated contractors. Contractors are asked to present their DoD ID cards or DoD issued pass.

Services are closed to all other civilians.

Continental employees are thanked mention in association with some events and services are not available.

July 3, 2017 • 11

AEDC software engineer Tommie Heard remembers his first day at Arnold Air Force Base almost 45 years ago as he departs on his retirement day June 23.

(U.S. Air Force photo/Rick Goodfriend)

Physical therapists keep ser

Gary Fulmer, ASO
Warner Holt, ASO
Jeff Stewart, ASO

CERTIFICATES

Susan Drinnon,
Certified Information
Systems Security Pro-
fessional (CISSP), AF
Christine Hughes,
Certification from Air
Command and Staff
College

AEDC Milestones

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