



# HIGH MACH

Serving the World's Premier Flight Simulation Test Complex



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## AFMC Commander Gen. Wolfenbarger visits Arnold



A ribbon-joining ceremony was held on Oct. 21 in celebration of a recent venture between AEDC and the U.S. Air Force Research Laboratory (AFRL). AEDC is now the site of the AFRL High Speed Experimentation Branch, where efforts will focus on foundational and systems research in propulsion, aeronautics and structural applications related to hypersonic flight. Glenn Liston, advisor of AFRL High Speed Systems Science and Technology, is leading the branch. Pictured left to right are AEDC Commander Col. Raymond Toth, Air Force Test Center Commander Maj. Gen. Arnold Bunch Jr., Air Force Materiel Command Commander Gen. Janet Wolfenbarger, AFRL High Speed Systems Division Chief Lt. Col. Joel Luker and Liston. (Photo by Rick Goodfriend)

Gen. Janet C. Wolfenbarger, Air Force Materiel Command commander, shares her perspective with the Department of Defense workforce at AEDC during a Commander's Call event held on Oct. 21. (Photo by Rick Goodfriend)



## Tennessee Governor Bill Haslam tells ACC crowd – AEDC is important to our state

By Kathy Gattis  
ATA Public Affairs

Governor Bill Haslam recently told members of the Arnold Community Council (ACC) that he wants to increase the aerospace and defense footprint in the state of Tennessee. He also said he thinks AEDC provides the state with a "critical advantage."

The governor made his remarks at the ACC's annual fundraising event where he was the keynote speaker. A crowd of 340 people listened as the governor covered three major topics: the push for more aerospace and defense business; AEDC and its impact; gratitude for the government/community partnership between AEDC and the ACC.

"We think there is a real opportunity to develop the aerospace and defense industry in Tennessee in ways that we haven't done before," he said. "I feel like we have not taken advantage of this nearly as much as we should have in the past. We're working hard to make this the best location in the Southeast for high-quality jobs and the effort at AEDC has been critical to our state's growth."

In recent months the governor



Tennessee Governor Bill Haslam (left) greets Arnold Community Council (ACC) 2014 President Ben Craig at the ACC Annual Dinner on Oct. 23 where Haslam was the event speaker. (Photo by Rick Goodfriend)

and his economic and community development team formed an Aerospace and Defense Initiative to help the state in its efforts to lure more of those businesses to the Volunteer State.

Haslam thanked the AEDC military and contractor team for the ground testing that keeps America safe and impacts the lives of those in other countries as well.

"It's a privilege for me to be here with you and thank you for

your efforts and the work you do each day," Haslam said.

As he talked about the weapons systems tested here, he again mentioned the talented work force that makes it all possible.

Haslam also focused on AEDC's economic impact to Tenn.

"AEDC – about 2,000 employees and 2,000 indirect jobs – is really important to our state; you play an incredibly important

See HASLAM, page 4

## AEDC Fellow Frank Jackson leaves legacy with Complex

By Raquel March  
ATA Public Affairs

AEDC 2005 Fellow Frank Jackson III will be remembered for his contributions to AEDC wind tunnels after his passing on Oct. 15 at the age of 77.

Jackson, a former chief engineer of the ATA Integrated Test and Evaluation department, was a driving force behind the delivery of many aeronautical test capabilities and improvements, essential to the nation's weapon system development needs. He researched testing in the AEDC Propulsion Wind Tunnel 16-foot supersonic wind tunnel (16-S) to develop optimum second-throat diffuser configurations that have remained in use for 39 years.

Jackson served as senior research engineer responsible for specification, design, procurement and installation of a new high-angle automated model support system for the 16-foot transonic wind tunnel (16T), which significantly improved model attitude range, pitch and roll rates and test productivity. As director of the Jacobs Sverdrup Flight Systems department he supervised execution of more than 12,000 hours of wind tun-



Frank Jackson III

nel testing in the 4-foot and the 16-foot transonic wind tunnels and hypersonic tunnels A, B and C.

Jackson held a bachelor's degree in aeronautical engineering from the Georgia Institute of Technology, a master's degree in mechanical engineering from the University of Tennessee Space Institute (UTSI) and a master's of science degree in aviation systems from UTSI.

After graduating from Georgia Institute of Technology, Frank settled in Tullahoma in 1960 and joined then support contractor ARO Inc. as a Project and Facilities Engineer at AEDC.

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## HIGH MACH

**Arnold Engineering Development Complex**  
An Air Force Materiel Command Test Complex

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Commander

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**The complex's vision:** Be the nation's best value ground test and analysis source for aerospace and defense systems.



### Core Values

- Integrity first
- Service before self
- Excellence in all we do



### Vision

"ATA will be a trusted partner in delivering best value warfighter support and asset stewardship to AEDC"

### Core Values

- Be accountable for our own actions
- Ensure the safety of individuals and equipment
- Demonstrate the highest integrity and ethical standards
- Communicate clearly and openly
- Deliver professional and technical excellence
- Nurture, enable and treat people fairly
- Align with customer goals and objectives
  - Use disciplined and innovative processes
- Continually improve in all that we do

# Safety Leadership Team promotes your safety

**By Doug Powell**  
AEDC Safety Leadership Team

In October of 2013, the ATA Mission Support Department management, safety representatives and the Safety Leadership Team joined forces as a more focused and equipped team to better work on safety issues.

The focus taken by the combined efforts makes our work environment safer and allows for us to better watch out for our coworkers so everyone can return safely to their loved-ones at the end of the day.

If anyone notices conditions that can be changed to

make a safer work environment, they are encouraged to contact a member of the Safety Leadership Team for the condition to be reviewed by the team.

At each meeting, the Safety Leadership Team looks at safety metrics and the way safety success is being communicated as well as reviews the Safety Action Item List (To-do-list) and working these issues to closure.

As time has progressed so have the action items as more employees become aware of the team's existence and purpose. Employees and management alike are seeing a continuation of our trek "Beyond



Zero" as safety observations are starting to be addressed.

The Safety Leadership Team was established in February of 2013 under the ATA Mission Support Department. The team

started with 13 members and along with the team name, a slogan was agreed on. The slogan "MSMS" (Mission Support Means Safety) was accepted by all and is the slogan of the team today. The team put

in place a Safety Action Item List to assist personnel in continuing to nurture a safe work environment.

ATA Mission Support Department Safety Leadership Team members are Tim Bagley, Caleb Barnett, Bubba Bateman, Bill Crawford, Perry Hoge, Michael Holland, Mitch Kendrick, Tommy Myers, Randy Nunley, Tom Payne, Doug Powell, Edd Walker, and Jeff Youngblood.

Don't be surprised if a member of the team presents a scratch off card to you as a reward for observing your safe acts showing that "Mission Support Means Safety."

# AFTC hosts Air Force small business event: Bringing the warfighter's needs to small business partners

**By William Mallory**  
SBIR Program Manager

Mark your calendars – the Air Force Test Center (AFTC) Small Business Industry Day will be held Nov. 18-20 at the Huntsville Marriott in Huntsville, Ala.

The Air Force is pioneering a new type of Industry Day – Air Force Small Business Industry Day (SBID) – that focuses on small business product capabilities, contract opportunities and technology development prospects by matching stakeholders from Centers/ Program Executive Officers, large business and small business communities.

Air Force SBID events are designed to increase small business participation and awareness in the Air Force supply chain. The SBID provides benefit to the Air Force by creating partnerships and increasing small business participation. This opportunity is a forum which emphasizes small business capabilities and new concepts, highlights existing small business products and promotes collaboration and integration of small businesses' services, products, and technologies into the Air Force's normal way of doing business.

The Air Force is using these events to identify and increase small business presence in the acquisition supply chain and to simultaneously incorporate new technologies by blending Small Business Innovation Research (SBIR) program developed technologies into the Air Force Programs of Record.

Hosted by the Air Force Test Center, the

SBID is a three-day event with keynote speakers, briefings on Air Force business opportunities and technology needs, educational briefings and three unique small business tracks. Each track maximizes opportunities between the Air Force and small businesses, by matching current Air Force needs with small business abilities and products.

Expected SBID benefits include:

- Establishment of new small business suppliers
- Transition acceleration of SBIR developed technologies
- AFTC business opportunities that focus on small businesses
- Excellent venue for small and large businesses to collaborate

The AFTC SBID includes opportunities created through the following structured conference activities. There will be general session presentations by senior Air Force keynote speakers Maj. Gen. Arnold W. Bunch Jr., the Commander of the Air Force Test Center; Mark Teskey, the director of the U.S. Air Force Small Business Programs; and Richard Lombardi, the Air Force Deputy Assistant Secretary for Acquisition Integration. These Air Force subject matter experts will provide information on the latest Test Center requirements and technology-based needs. Sessions also include discussions on Test Center needs and requirements, contracting, business development, and transition/commercialization opportunities.

Small businesses will benefit from one-on-one sessions with Air Force

and major defense contractor subject matter experts, and the sessions are by invitation only.

Exhibit booths will

provide government and business attendees the opportunity to collaborate and discuss their products, technologies

and services.

For more information call 931-454-7081 or visit the following link: <https://conference.brtrc.com/>

**AEDC 2014**

**Turkey Trot**

**5K Run / 1.5 M Walk**  
**November 21, 2014 - 2:30 p.m.**  
**at Arnold Engineering Development Complex in front of the A&E building**  
**Open to Military, DoD Civilians, All Contractors and Off-base Participants**

**Registration deadline - Nov. 20**  
**fee - \$20 (includes T-shirt)**  
**To register call 2nd Lt. Stuart Coston, 454-3032**  
**signup sheet:**  
**\\52anzw-hc-001v\aedc\Public\TurkeyTrot2014**

**Proceeds will benefit local charities.**  
**Awards and Door Prizes will be given away!**

# Smoking Policy

1. The following revised AEDC smoking policy is effective immediately. Smoking is permitted solely in designated areas identified by a plastic "smoke genie." This receptacle is for the sole purpose of cigarette butt disposal. If there is no receptacle, smoking is not permitted in that area. It is the responsibility of all smokers to clean up the area surrounding the receptacles for any cigarette butts on the ground. Smoking in government-owned vehicles is strictly prohibited. Personnel are allowed to smoke in their personal vehicles at any time. Smoking areas will be held to the absolute minimum and will be located in low traffic, low visibility areas away from points of building ingress/egress and air intakes. A map of all authorized smoking areas is available on the AEDC web portal at [https://papro.arnold.af.mil/PORTAL/images/Smoking\\_area\\_map.pdf](https://papro.arnold.af.mil/PORTAL/images/Smoking_area_map.pdf). Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

The fact a person smokes has no bearing on the number of breaks they may take. Breaks should be taken in accordance with the company/agency personnel policies that apply to all employees.

Smoking, including the use of electronic cigarettes and smokeless tobacco, is prohibited in any area, at times when official business is being conducted with government clients, test customers, outside visitors and dignitaries, and where official business is being conducted including conference rooms, auditorium settings, business meetings, or in any other area where Air Force regulations specifically prohibit use. Containers of tobacco waste product, including sealed containers, must not be left unattended or disposed of in trash receptacles. Users of smokeless tobacco must flush tobacco waste down the toilet. Due to the nature, appearance, and safety concerns of electronic cigarettes (also known as "e-cigs"), the use of said products will abide by the same rules for tobacco products stated above and governed by AFI 40-102, *Tobacco Use in the Air Force*.

2. Supervisors at every level will ensure this policy is followed. Disciplinary action is appropriate for repeated violations.

3. Updates to this policy will be made in the future to further align with Air Force guidelines.

4. This policy remains effective until rescinded. (This policy is dated December 20, 2013)

# Action Line

## Team AEDC

I believe in free and open communications with our Team AEDC employees, and that's why we have the Action Line available. People can use the Action Line to clear up rumors, ask questions, suggest ideas on improvements, enter complaints or get other issues off their chests. They can access the Action Line in one of two ways: via the AEDC intranet home page, and by calling 454-6000.

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

**Col. Raymond Toth**  
AEDC Commander

# K-9 Bikkel's career celebrated after 35 years of service at AEDC

By Raquel March  
ATA Public Affairs

After five years of service at AEDC – 35 in dog years, K-9 police officer Bikkel is retiring.

In a retirement ceremony held on Oct. 21, Bikkel's colleagues joined in celebrating his service and the multiple awards he has earned throughout the years at the Complex.

Bikkel, an eight-year-old Belgian Malinois, was trained as an explosive detection dog in 2007 at the Vohne Liche Kennels and was deployed to work in Iraq on a two-year contract. While deployed to Iraq, he detected improvised explosive devices (IED), saving American lives.

In 2009, Bikkel started working at AEDC where he has searched approximately 43,200 vehicles entering the Arnold Air Force Base mission area, under the direction of Arnold Police Officer Jason Layne.

Arnold Police Chief Don Miller commented about Bikkel's service to other areas in addition to AEDC at the retirement ceremony.

"Bikkel's expertise has been highly sought after by our county, city, state and federal law enforcement agencies. He provided support to many DVs [distinguished visitors] most notably to First Lady Barbara Bush, Sir Elton John and the Israeli Ambassador," Miller said. "In addition he also served as an ambassa-



Police Officer Jason Layne (left) instructs Arnold Police K-9 Officer Bikkel in an attack demonstration during Bikkel's retirement celebration on Oct. 21. Col. James Krajewski, the AEDC Test Support Division director, acts as the antagonist for the demonstration. (Photo by Rick Goodfriend)

dor to the base; to the local communities by providing support to school searches, homeland security operations, K-9 demonstrations and numerous assists to local law enforcement agencies."

Layne said Bikkel will reside with his family as a pet and he will enjoy his retirement playing fetch with a favorite toy, a tennis ball. Layne plans to retrain Bikkel to detect deer antlers.

ATA has attained a new K-9 police officer, Bo, a two-year-old Belgian Malinois. His handler is Arnold Police Officer Aaron Cheney.

## Bikkel's Awards

**2010 Police Canine Olympics:**  
1st Place- Explosive Vehicle Exterior  
1st Place- Explosive Vehicle Interior  
3rd Place- Explosive Scramble  
3rd Place- Explosive Open Area Search

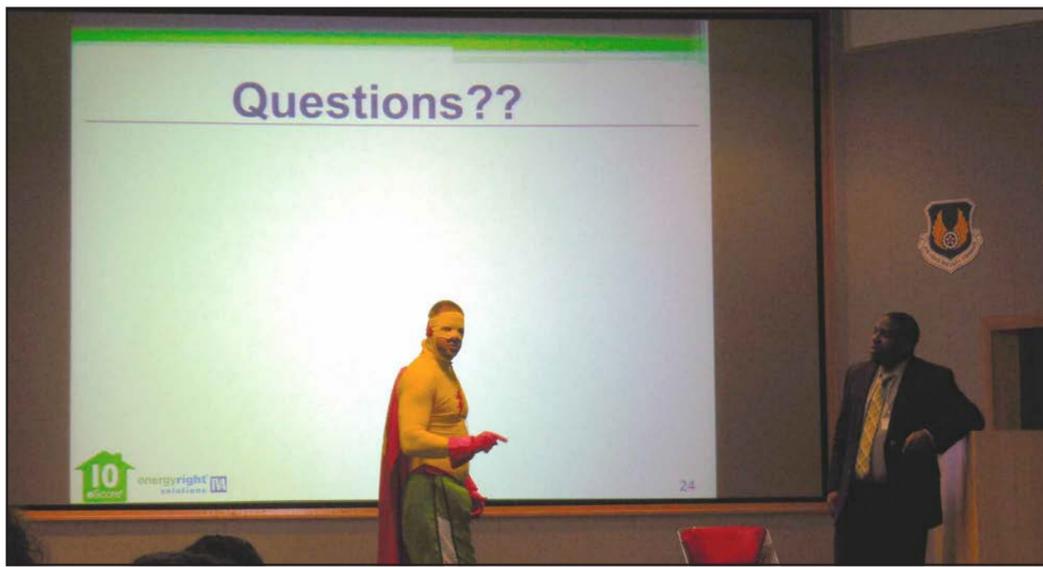
**2011 Police Canine Olympics:**  
3rd Place -Residential Search  
3rd Place -Explosive Vehicle Exterior  
3rd Place -Explosive Luggage

**2012 Police Canine Olympics:**  
1st Place - Vehicle Interior Event,  
1st Place - Warehouse Detection Event  
1st Place - Explosive Building Event  
1st Place - Detection Team Overall  
3rd Place - Explosive Luggage Event  
3rd Place - Patrol Team Overall



Arnold Police K-9 Officer Bikkel accepts a U.S. Air Force Certificate of Service from AEDC Commander Col. Raymond Toth (right) during Bikkel's retirement celebration on Oct. 21. ATA Mission Support Department Director Pat Eagan (left) and Arnold Police Officer Jason Layne accompany Bikkel. (Photo by Rick Goodfriend)

## Energy Expo held as part of Energy Action Month at AEDC



Captain Kilowatt takes the stage at the Energy Expo to share examples of how to be more energy efficient. (Photo provided)

By Deidre Ortiz  
ATA Public Affairs

Throughout the month of October, employees at AEDC observed Energy Action Month by wearing green as part of "Go Green Wednesdays" and taking steps to conserve energy and be more energy efficient.

As part of the awareness effort, an Energy Expo, organized by the AEDC Civil Engineering branch, was held Oct. 22 at the Main Auditorium. Representatives from the Tennessee Valley Authority spoke about the many ways families can save energy at home. Also stopping in to visit those in attendance was Captain Kilowatt, who could be seen around

AEDC all month-long encouraging everyone to join his cause.

After making an appearance at the expo, the energy-saving super hero was able to spare a few minutes to answer the following questions:

High Mach: What is Captain Kilowatt's mission?

Captain Kilowatt: My mission is two-fold. First, I want to raise awareness and establish a working environment where energy is considered in all that we do. Turning off your lights when you go to a meeting or leave for the day is a great example of being energy conscious. Second, I want to reduce energy by creating higher efficiencies. It is no surprise that

Arnold consumes a lot of energy as it supports the Air Force mission to fly, fight, and win... in air, space, and cyberspace. This fact alone is why the emphasis is on efficiency instead of reduction.

HM: Is saving energy easy and what can we do daily to save energy here at work and at home?

CK: I would be lying if I said saving energy was easy to do. If it were easy I would be out of a job! Some energy saving actions can be easy but the truth is saving energy is typically very tough, which is why it takes a team effort. I've said before, a drop in a bucket is unnoticeable, but 10,000 drops can overflow the bucket. The key is that we utilize the

easy things (programmable thermostats, energy efficient lighting, and turning off your lights when you leave the office) while also working together to attack the larger issues (test process efficiencies, aged equipment, etc.)

HM: Why is saving energy so important and what are the benefits?

CK: For most people, saving energy means saving money. I agree that this is a huge benefit but it is also important to think of the generations that will follow us. As we reduce our energy load, we decrease dependency on some of our depleting resources while improving our ability to sustain through renewable energy sources.

## Step up to better health with AFMC's challenge

Air Force Materiel Command Wellness Support Center

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio** – Do you have 'sitting disease'? Too much time sitting down may put you at risk for health problems. When muscles don't contract, they require less fuel, and the surplus of sugar that accumulates in the bloodstream contributes to health concerns. Research has shown that sitting for long periods of time – watching TV or at work behind a desk – raises the risk of chronic health conditions like heart disease, diabetes, cancer and obesity.

Getting up and moving has the opposite effect. According to the Centers for Disease Control, regular physical activity can help: control body weight, reduce risk of cardiovascular disease, improve brain function, and strengthen bones and muscles.

During November and December, Air Force Materiel Command will promote the Team Pedometer Challenge. Team Pedometer Challenge is a command-wide initiative promoting walking for physical activity. TPC's health focus will be exercise and arthritis. Civilian Health Promotion Services will conduct the challenge.

How to participate in Team Pedometer Challenge:

1. Enroll online at AFMCwellness.com between Oct. 6 and Nov.12. Enroll as an individual participant or choose one teammate. Program goals are individually based.
2. Print your TPC Enrollment Certificate and take it to your local CHPS office to pick up your free pedometer.
3. Start walking, and log your steps on the AFMCwellness.com pedometer log from Nov. 3 through Dec. 18.
4. To be eligible for the completion award, each participant needs to perform and log at least 200,000 total steps and attend the CHPS class titled 'Exercise & Arthritis' during the challenge.

Participants that complete the Team Pedometer Challenge requirements will receive a pack of Fit-Deck cards. FitDeck is a custom deck of playing cards that makes exercise simple, convenient, and fun with new and exciting fitness activities.

For more information, visit [AFMCwellness.com](http://AFMCwellness.com) or contact your local CHPS team.

## JACKSON from page 1

In 1987, Frank became Director of Engineering and Maintenance and in 1990 was promoted to Director of Engineering and Development and Director of Planning. He later served as Director of Operations and

Maintenance and as Chief Engineer, and as the Director of the Test and Facility Support Department and Chief Engineer of the Aircraft Test and Evaluation Department. From 1990 through 1996, Frank led AEDC

contractor efforts in support of the National Wind Tunnel Complex Program and was a member of the Joint Industry-Government team at NASA Langley and the Contractor Requirement and Operations team at NASA

Lewis.

Jackson was an Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA) and a member of the Tennessee Society of Professional Engineers.

# Honor Flight takes veterans on last trip of 2014

By Claude Morse

Honor Flight of Middle Tennessee

The Honor Flight of Middle Tennessee completed its last flight of 2014 with 51 World War II, Korean War veterans and their guardians.

Honor Flight is a nationwide program to take eligible veterans from all the armed services on a free trip to see their war memorials in the nation's capital. World War II veterans get top priority followed by Korean War veterans. Terminally ill veterans from those wars who are well enough to fly with a doctor's approval go to the front of the line.

The fall flight had veterans from all the military services, including the Coast Guard. Two of the veterans had served in World War II, Korea and Vietnam. The oldest veteran on the trip was 94. Most were residents of Tennessee although at least one veteran was from Kentucky.

The veterans were picked up in Winchester, with stops in Tullahoma and Manchester. Police and sheriff's departments from Franklin and Coffee counties as well as the Tennessee National Guard and the American Legion Riders escorted the bus. Members of the Patriot Guard Riders met the veterans at the Nashville Airport with an American flag arch when they arrived and when they returned at 9 p.m.

The group flew on Southwest Airlines, the official airline of Honor Flight, to Ronald Reagan Washington National Airport and back the same day.

In Washington, D.C. the veterans got to spend



U.S. Army Maj. Paul Sipe from Manchester currently assigned with the U.S. Army Corps of Engineers greets World War II veteran Phil Tarver (center) and Honor Flight Guardian Charlie Young of Tullahoma at Arlington National Cemetery on Oct. 18. Tarver was a Navy aerial photographer in the Pacific theater flying on the Navy version of the B-24 Liberator. He worked 33 years at AEDC as a photo-journalist. (Photo by Claude Morse)

time at the National World War II Memorial, Korean War Veterans Memorial, the Vietnam Veterans War Memorial and the United States Air Force Memorial. They also stopped at the Marine Corps War Memorial.

The afternoon concluded with the solemn changing of the guard ceremony at the Tomb of the Unknown Soldier at Arlington National Cemetery. This was followed with a special performance by The United States Army Old Guard Fife and Drum Corps at Fort Myer, Va. then supper in the base dining hall before flying home.

The Honor Flight of Middle Tennessee is a Tennessee 501c3 non-profit cooperation. All donations are tax deductible. It was originally

formed as the Southern Middle Tennessee Honor Flight in 2008 with Milton Schafer of Winchester as its chairman. The name was changed in 2013 to reflect the area of the state it covered and it was granted 501c3 status in 2014. Since 2009 the group has made two flights per year for ap-

## HASLAM from page 1

role in our economics," he said.

In his final remarks, the governor praised the ACC for their support of AEDC and their role in its continued growth. He said the relationship between the ACC and AEDC is a great example of a successful partnership between the government and the community and the impact such a relationship can have.

AEDC and the Air Force Research Laboratory last month announced a new hypersonics branch at AEDC. Key leadership is already in place and will include the University of Tennessee Space Institute. ACC Outgoing President Ben Craig talked about the collaboration too.

"Efforts such as these continue to be a driving force that the ACC supports and desires for the future generations of AEDC employees," Craig said. "It is great to be a part of these efforts. During these critical times in which we live, it is critical that we work together to support

proximately 50 veterans and their guardians on each flight.

Veterans pay nothing for the trip. All airfare, meals and incidentals are covered by donations. Each veteran gets a distinctive ball cap and polo shirt. Guardians pay their own way. It costs approximately \$18,000 - \$20,000

for each flight.

The Honor Flight committee expressed their thanks for all businesses, organizations and individuals who have generously donated the funds necessary for each flight. Fundraising is currently underway for the spring 2015 flight as the group will have to spend

\$13,000-\$14,000 in advanced payment for airfare and buses to reserve the spring date by January.

Tax deductible donations can be sent to Honor Flight of Middle Tennessee at P.O. Box 1926, Tullahoma, TN 37388-1926.

For more information call 931-924-3000.



Arnold Community Council (ACC) 2015 President Jim Jolliffe (left) accepts the gavel from former ACC President Ben Craig symbolizing the change in the ACC leadership. The change took place at the ACC Annual Dinner in Manchester on Oct. 23. (Photo by Rick Goodfriend)

the Air Force, AEDC and each of the local communities making up the ACC. It is only through these efforts that we will continue to be successful in all of our endeavors."

ACC's incoming president, Jim Jolliffe, stressed the role the ACC plays in promoting and educating others about AEDC contributions.

"AEDC has tested nearly every air and space system during its development and, in many cases, tested improvements to those fielded systems," Jolliffe said. "Our nation and our allies need

AEDC's people, processes and facilities to continue the successes of the past while leading new advances in hypersonics, advanced testing methods and improved analysis techniques.

"By attending tonight you become a member of the ACC... you're invited to monthly membership meetings and to participate in supporting the AEDC annual Veterans Picnic, quarterly and annual awards ceremonies, the annual AEDC Children's Christmas Party and Evening at Arnold community outreach

events."

He also encouraged everyone to take part in the group's annual trip to Washington, D.C. to promote AEDC. Craig announced there was a 10 percent increase in the number of Congressional offices visited in 2014.

In other business, new officers were selected for ACC: President Jim Jolliffe; Vice President Jim Herron; Secretary Claude Morse and Treasurer Prudha Ross.

For more information about the ACC, go to their website at [www.arnold-communitycouncil.com](http://www.arnold-communitycouncil.com).

# STEM volunteers mentor local electronics students

By Michael Glennon  
AEDC Engineering and  
Technical Management

The Science, Technology, Engineering and Mathematics (STEM) program at AEDC is supporting a basic electronics course for students at the Coffee County Central High School in Manchester.

Two AEDC mentors, Michael Glennon and Richard Kirkpatrick are volunteering with the course which uses the Arduino Uno, a single-board microcontroller. The controller makes building electronic projects more interactive and more accessible for students.

The AEDC STEM program loaned 20 SparkFun Inventor's Kits to the high school that provide programming and hardware interaction with the Arduino programming language. The kit includes 15 electronic circuits that teach the students how to read sensors, display information on an Liquid Crystal Display, drive motors understanding and more.

The hardware consists of an open-source board designed around an 8-bit Atmel® processor. Arduino Uno microcontroller board features a USB interface, six

analog input pins, as well as 14 digital I/O (input/output) pins that accommodate various extension boards.

The high school electronics instructor Jeff Hinshaw said, «Electronics is a new program this year with 50 students learning basic electronics from AEDC knowledgeable engineering mentors.»

The students stated that they are learning a valuable understanding of basic electronics, software programming, as well as hands on projects that allow them to connect various electronic parts and provides a real world understanding of STEM.

“It has been a lot of fun and an honor to work with the CCCHS students,” Kirkpatrick said. “I have been very surprised by how the students are able to quickly understand the concepts. This course will help them prepare for a job or advanced education in the technology sector.”

The local Middle Tennessee Amateur Radio Society (MTARS) also provided do-it-yourself (DIY) clock kits for students to understand basic electronics components and to teach proper soldering techniques used to mount various electronic components to the circuit



Pictured here displaying the SparkFun Inventor's Kits is (l-r) AEDC volunteer mentor Michael Glennon, Coffee County Central High School electronics instructor Jeff Hinshaw and Eric Sutherland, the president of the local Middle Tennessee Amateur Radio Society. (Photo provided)

board kits.

Eric Sutherland, the president of MTARS, said, “Basic electronics supports the interest of the amateur radio hobby and the MTARS club is proud

to have the opportunity to help support the local high school with DIY clock kits.”

At the October AEDC Technical Forum Lunch and Learn, Glennon presented the electronic teaching top-

ics, the 15 electronic circuits along with a few examples and use of the Arduino single-board microcontroller.

Glennon said it was “great to share 27-plus years of electronic engi-

neering experience with high school students in hopes to spark future interest in electronics, future employment or continuing into an engineering study in college.”

## Dragon ‘fires up’ for flight

By Justin Oakes  
66<sup>th</sup> Air Base Group Public  
Affairs

**TINKER AIR FORCE BASE - Okla. (AFNS)** – The Air Force and NATO are undergoing a cooperative development effort to upgrade the avionics and cockpit displays of AWACS aircraft belonging to the 552nd Air Control Wing here and the NATO E-3 Sentrys from Geilenkirchen, Germany.

The Diminishing Manufacturing Sources Replacement of Avionics for Global Operations and Navigation, otherwise known as the Dragon program assists in finding parts for the aging AWACS fleet.

“The Dragon modification is the most significant avionics upgrade in E-3 history and will ensure we remain ready and able to support combatant commander requirements worldwide,” said Col. Jay Bickley, the 552nd ACW commander.

The flight deck modernization replaces most analog indicators with modern digital multicolor graphical displays. In addition, nearly all of the 1970s avionics are being replaced with updated airspace-compliant subsystems. This modernization also allows for elimination of the navigator, dropping the crew size from four to three, as well as adding a Mode-5 Identification Friend or Foe capability.

All aircraft infrastructure such as engines, airframe and mission systems will remain, but the upgraded E-3 flight deck will host a plethora of new technology currently used by the commercial airline industry. Such as: digital satellite-based communications; modern flight management system suite architecture; and a digital cockpit that includes five glass display screens will offer aircrews easy-to-use and customizable engine, navigation and situational awareness data.

Other new capabilities will include a weather radar that can predict wind shear, an Enhanced Ground Proximity Warning System, warnings, cautions and advisories via an Engine Instrument and Crew Alert System and a fully digital flight deck audio distribution system.

In addition to hard-to-find replacement parts, another reason for the AWACS upgrade is due to changing national and international regulations for civil airspace.

The International Civil Aviation Organization has imposed new flight mandates that need to be met by 2018. With the flight deck modernization, both U.S. and NATO fleets will meet

the mandates and will have broader access to airspace

“The operational requirement for the Dragon modification is to allow E-3 AWACS aircraft to transit world-wide and establish operationally desired orbit areas in accordance with new airspace mandates,” said Gordon Fitzgerald, the 552nd ACW director for Requirements. “And it’s not just about the flight route. It may be that a route is available, but not at the desired altitude for optimum operations. Dragon enables and optimizes getting AWACS to the fight and sustaining flight operations.”

The Air Force and NATO are progressing together through risk reduction and engineering, manufacturing

and development phases, but the organizations will have separate contracts for the production, deployment and operational stages.

Boeing, who holds the current EMD contract, installed one digital flight deck and avionics system

onto the first NATO aircraft, N-1, and will also install another system into an Air Force test aircraft, D-1, in the coming months.

Ground testing for the NATO AWACS is slated for this month with an anticipated first flight sched-

uled for November. The Air Force expects their fleet of Dragon enabled E-3s to be delivered by the fourth quarter of fiscal year 2025.

(Mr. Gordon Fitzgerald, the 552nd Air Control Wing director for requirements, contributed to this article.)

# Global Strike provides deterrence for the modern era

By Airman 1<sup>st</sup> Class  
Joseph Raatz

*Air Force Global Strike  
Command Public Affairs*

**BARKSDALE AIR FORCE BASE, La. (AFNS)** – The Air Force recently demonstrated its nuclear deterrence and power projection capabilities through a coordinated display of strategic combat power.

Air Force Global Strike Command Airmen – responsible for two legs of the nation’s nuclear triad – conducted the demonstrations, which included participation in a large combined forces exercise in the Pacific, a nuclear-capable cruise missile weapon system evaluation over the Utah Test and Training Range, and an ICBM operational test launch from Vandenberg Air Force Base, California.

“The United States’ strategic forces provide the nation a safe, secure and effective deterrent that’s ready 24/7,” said Lt. Gen. Stephen Wilson, the AFGSC commander. “While the world is growing more challenging and more complex, Global Strike Airmen operate with flexibility and strategic agility whether the mission calls for a conventional or nuclear capability.”

Showcasing AFGSC’s conventional capabilities, 8th Air Force Airmen currently deployed to Andersen AFB, Guam, and participated in the exercise Valiant Shield, a U.S. Pacific Command combined forces training exercise that took place Sept. 15-23.

Valiant Shield is a biennial field training exercise that focuses on the integration of joint training among U.S. forces. The participating forces demonstrated the inherent flexibility of joint forces and exercised a wide range of capabilities, from maritime security operations to anti-submarine and air defense exercises and complex warfighting.

“Having the B-52 (Stratofortress) operate in the Pacific provides security and stability in the region and allows our operators to become familiar with the area of operations,” said Capt. Case Johnson, a B-52 aircraft commander assigned to the 96th Bomb Wing here. “This was my first time participating in Valiant Shield and I learned a lot of great things, including the capabilities our sister services... The long loiter time and number of weapons we bring to the fight make (the B-52) a great joint asset.”

In addition to AFGSC bomber support, the nine-day Pacific theater-focused exercise brought together 19 surface ships, more than 200 aircraft and 18,000 U.S. troops from every branch of service to participate in joint forces operations throughout the region.

“It was very interesting to learn from the other branches of the service and learn about their unique capabilities,” said Capt. Anthony Mascaro, a B-52 pilot with the 96th Bomb Squadron and a participant in Valiant Shield. “One of the things we’ve learned is how to interoperate with

the different services that are out here, for instance discovering what kind of requirements the Navy might have versus the Air Force for a certain mission set. We would approach a problem and then work together on how to solve it in a joint fashion.”

The Air Force has been conducting continuous bomber presence operations in the Asia-Pacific Region for more than a decade and plans to continue the practice into the foreseeable future.

“This forward deployed presence demonstrates continuing U.S. commitment to stability and security in the Asia-Pacific region,” said Maj. Gen. Scott Vander Hamm, the 8th Air Force and Task Force 204 commander. “Eighth Air Force maintains an ongoing deployment of bombers to Andersen, which provides opportunities for our Airmen to advance and strengthen regional alliances and our long-standing military-to-military partnerships throughout the Asia-Pacific. Most importantly, these bomber rotations provide Pacific Air Forces and U.S. Pacific Command commanders a global strike and extended deterrence capability against any potential adversary.”

While Valiant Shield was in full swing in the Pacific, 8th Air Force bomber crews stateside conducted an end-to-end operational nuclear weapons system evaluation demonstrating the strategic bomber force’s ability to configure, load, fly and deliver a nu-

clear capable air launched cruise missile. As part of the Nuclear Weapons System Evaluation Program, or NucWSEP, two B-52H Stratofortresses were tasked to fly a simulated combat mission from Barksdale AFB to the Utah Test and Training Range where one launched an unarmed AGM-86B Air Launched Cruise Missile, Sept. 22.

As a standoff weapon the AGM-86B was designed to be launched from outside of the combat area, allowing aircrews to strike distant targets with a high degree of accuracy without exposing themselves to potentially deadly enemy fire.

“These periodic demonstrations provide a highly visual example of our nation’s long range strike abilities,” Vander Hamm said. “With each success, we prove to our adversaries that we can and will effectively defend the United States and its allies and can reliably strike at any threat, any time.”

With aerial refueling, a B-52 can put AGM-86B capability anywhere in the world within hours. Each B-52 can carry up to 20 of the missiles, with six on each of two exterior pylons and eight on an interior rotary launcher.

“An enemy force would have to counterattack each of the missiles, making defense against them costly and complicated. The enemy’s defenses are further hampered by the missiles’ small size and low-altitude flight capability, which makes them difficult to

detect on radar,” Vander Hamm said.

For the NucWSEP, Airmen from the 2nd Bomb Wing’s munitions and aircraft maintenance squadrons pulled the ALCM data during the missile’s flight and feed it back to the operators. This provided a detailed picture of how well the weapon system functioned.

“We’re testing it the whole time to make sure that it’s operating in the manner in which it was designed,” said Staff Sgt. Joshua Craig, a cruise missile maintenance team chief with the 2nd Munitions Squadron here.

Once the diagnostics and programming were completed, the ALCM was loaded onto a B-52 by an experienced weapons load team. The B-52 then flew to the test range and launched the weapon, which flew for an undisclosed amount of time before striking its target.

For aircrews, the opportunity to launch a missile drove home the importance of their mission.

“When you think of deterrence, it’s not something that you normally see in the news every day, but what we’re doing on this flight... is vitally important to the defense of the U.S.,” said Capt. Lance Adsit, a B-52 aircraft commander with the 20th Bomb Squadron who flew with the lead aircraft during the test.

“The impact this has is it makes sure when our leaders go to make any type of decisions or negotiations on the world stage that they’re in a position of

power, that their voice is heard – and not only heard but it’s respected and taken into account when other countries make decisions,” said Airman 1st Class Karl Reid, an ALCM flight missile technician with the 2nd Munitions Squadron here. “I think that’s important and it’s an honor to be a part of it.”

Demonstrating the ground-based leg of the nation’s nuclear triad, AFGSC and 20th Air Force Airmen conducted an operational test launch of an unarmed LGM-30G Minuteman III intercontinental ballistic missile from Vandenberg AFB, Sept. 23. It was the most recent in a series of more than 200 test launches conducted with the Minuteman III program.

“Test launches are critical to validating the continued accuracy and reliability of the Minuteman III weapon system and providing valuable data to ensure a safe, secure and effective nuclear deterrent,” said Maj. Gen. Jack Weinstein, the commander of 20th Air Force and Task Force 214. “Our Airmen maintain and operate this weapon system year round in some challenging environments, and this test is a result of their expertise and tireless devotion to this mission.”

The launch team, under the direction of the 576th Flight Test Squadron at Vandenberg AFB, included Airmen from the 91st Missile Wing at Minot AFB, North Dakota.

See **STRIKE**, page 7

# First F-35A operational weapons load crew qualified

By Staff Sgt. Marleah Robertson  
33rd Fighter Wing Public Affairs

**EGLIN AIR FORCE BASE, Fla. (AFNS)** – Three Airmen with the 58th Aircraft Maintenance Unit became the first qualified operational weapons load crew for the F-35A Lightning II during a qualification load here, recently.

Staff Sgt. Zachary Watts, the 58th AMU crew one load crew chief, leveraged his 10 years of experience loading munitions on F-16 Fighting Falcons to lead his crew through the successful load. Airmen 1st Class Robert Hughes and Reece Zoller, both 58th AMU crew one load crewmembers, joined Watts for the weeklong load drill after completing technical training at the Academic

Training Center.

“Before us, there was no weapons capability,” Watts said. “We’re making it from an airline into the Air Force.”

With the first operational weapons load crew qualified, the F-35A is now one step closer to its initial operational capability (IOC).

“We have a total of 10 weapons load crews in the wing,” said Senior Master Sgt. Jason Sells, the 33rd Maintenance Group weapons standardization superintendent. “The next step is to bring a new load crew through every month and get them qualified through a weeks’ worth of training. Once that happens, each load crew will continually come through every month for proficiency load training.”

Sells added that all

weapons load crews will be qualified and performing proficiency training within the next six months.

The F-35 training program here currently serves as the primary source of F-35 expertise to new F-35A units across the Air Force. The newly qualified teams will continue to hone their skills and become experts at their jobs so they can go train the weapons load crews at those bases receiving the F-35A.

“We are trying to build the most educated and most proficient F-35A weapons loaders out there,” Sells said. “Anything that we can do to help mature the program to get us ready for IOC, that’s our big thing. Training is what the 33rd (MXG) is all about – whether it’s pilot training or maintenance training, that’s what we’re doing.”



Airmen with the 58th Aircraft Maintenance Unit crew one prepare to load a GBU-31 joint direct attack munition on to an F-35A Lightning II during a qualification load Oct. 10, at Eglin Air Force Base, Fla. The F-35A is now one step closer to its initial operational capability with the first weapons load crew qualification. The newly qualified crewmembers will continue to hone their skills and become experts at their jobs so they can train the weapons load crews at other bases receiving the F-35A. (U.S. Air Force photo/Staff Sgt. Marleah Robertson)

## STRIKE from page 6

“Like all Airmen in 20th Air Force and Task Force 214, the Airmen of the 91st Missile Wing are dedicated and highly proficient in maintaining, securing and operating the ICBM leg of the nation’s strategic deterrence capability,” said Col. Michael Lutton, the 91st MW commander. “This launch allowed us to demonstrate that excellence.”

As in each Minuteman III test launch, preparation for this launch began months before the launch date. The Air Force selected a missile from the field at random and removed it from the silo. The nuclear ordnance was then removed by a team of skilled missile technicians. Once disarmed, the missile was loaded into a special transporter vehicle and driven to the launch site at Vandenberg AFB.

When the missile reached its destination it was

loaded with telemetry packages and carefully lowered into the test-launch silo. After running an exhaustive series of diagnostics and proceeding through checklists, the missile crews launched the ICBM toward the Kwajalein Atoll some 4,200 miles away, where it struck its target.

“This launch is the result of months of hard work and preparation by both our team here at Vandenberg, Airmen from Minot (Air Force Base) and engineers from the Air Force Nuclear Weapons Center,” said Col. Kelvin Townsend, the 576th Flight Test Squadron commander. “This launch validated our teamwork and demonstrated a strong and visible display of America’s deterrent and global strike capabilities.”

Every test launch verifies the accuracy and reliability of the ICBM weapon sys-

tem, providing valuable data to ensure a safe, secure and effective nuclear deterrent, Townsend said.

The Minuteman III ICBM has a range of more than 6,000 miles and can put a nuclear weapon on target almost anywhere on the globe. The U.S. maintains 450 of the missiles in hardened silos, manned 24 hours a day by highly trained and dedicated Airmen.

While the test launches are designed to test the missile system, they have the added benefits of both demonstrating the nation’s powerful deterrence capabilities and boosting the morale of the missile crews and maintenance personnel who stand vigil over America’s nuclear arsenal.

“Getting the opportunity to conduct a test launch is probably one of the most coveted assignments we have as missileers,” said 1st

Lt. Trey Morris, an ICBM combat crew commander with the 740th Missile Squadron at Minot AFB. “We are held to incredibly high standards in all of our training –and rightly so, as we’re dealing with the most devastating weapon system yet devised by man on a day-to-day basis – but if there is one thing in our training that has to be done 100 percent correct at all times, that we are expected to be absolutely perfect on, it’s launch procedures. To get the opportunity to actually implement that training in the real world is extremely rewarding, to say the least. Plus, how many people can say that they’ve launched a real-life ICBM?”

Nuclear deterrence operations and long-range strike capabilities continue to be

essential to the U.S. national defense strategy in the 21st century by providing security and stability for the U.S. and its allies in a highly complex and fluid global environment.

“The United States’ ability to maintain a strong, credible nuclear deterrent is foundational to U.S. national security and the security of our allies and partners,” said Adm. Cecil D. Haney, the U.S. Strategic Command commander. “These test launches, and the valuable lessons we learn from each, ensure USSTRATCOM’s strategic forces remain relevant and ready, 24/7, providing flexible and credible options for the President and the Department of Defense.”

With multiple nations either currently in posses-

sion of nuclear weapons or believed to be attempting to develop them, maintaining a safe, secure and effective deterrent capability is crucial.

“[The nuclear mission] is our most important mission, period, simply because of the sheer destructive power that’s involved and because of the criticality of it to our national security,” said Frank Kendall, the undersecretary of Defense for acquisition, technology and logistics, speaking on behalf of Secretary of Defense Chuck Hagel during the 2014 Air Force Association’s Air and Space Conference, Sept. 17.

“This is the very foundation of U.S. national security,” Kendall said. “No capability we maintain is more important than our nuclear deterrent.”

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# AEDC quarterly award winners announced



**2<sup>nd</sup> Lt. Kyle Monsma**  
Company Grade Officer of the Quarter



**Master Sgt. Jason Nelson**  
Senior Non-Commissioned Officer of the Quarter



**Tech. Sgt. Heather Yates**  
Non-Commissioned Officer of the Quarter



**2<sup>nd</sup> Lt. Andrew Spurgeon**  
Honor Guard of the Quarter



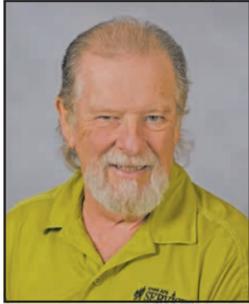
**Leslie McGowan**  
Civilian of the Quarter  
Clerical/Technical Support



**Dee Wolfe**  
Civilian of the Quarter  
Administrative



**Melissa Tate**  
Civilian of the Quarter  
Scientist/Engineer



**Gregory Burns**  
NAF Employee of the Quarter  
Outdoor Recreation  
Category I



**Kacie Croxen**  
NAF Employee of the Quarter  
Outdoor Recreation  
Category II

# Milestones



**Carol Cox**  
**35 years, Enterprise Business Systems Section Manager**  
ATA Information Technology and Systems Department

*What is your most memorable AEDC moment during your years of service?*

*"It is impossible to pinpoint a single most memorable moment at AEDC as I have been blessed with many memorable experiences over the years. I have been lucky enough to work with people that believed in me and provided me with opportunities to grow. I have been a part of many AEDC firsts in the information technology field and each of those firsts was special. Most of all, it has been an honor to work with many wonderful people and to be a part of their lives, both professionally and personally. Being a part of the AEDC community is the foundation of all the good memories – the truth is that the people of AEDC make it a memorable and special place."*

**45 YEARS**  
Billy Bailey, ATA

**40 YEARS**  
Judy Brewer, ATA  
Michael Fain, AF

**35 YEARS**  
Carol Cox, ATA  
Vickie Swickard, AF

**30 YEARS**  
Steven Jones, ATA  
Rick Rushing, AF  
Debra Stacey, ATA



**Vickie Swickard**  
**35 years**  
AEDC Office of Special Investigations

**25 YEARS**  
Jerry Goodman, ATA

**20 YEARS**  
Deleith Allen, ATA  
David Roden, ATA  
Ashley Russell, ATA  
Consetta Woosley, ATA

**15 YEARS**  
Robert Forde, ATA  
Christopher Garner, ATA  
Christopher Graham, ATA  
Michael Hodges, ATA  
Linda Holder, ATA  
Kenneth Locker, ATA  
Stephen Medley, ATA  
April Powers, ATA  
Jeffery Wooten, ATA

**10 YEARS**  
John Ayers, ATA  
Larry Bowen, ATA  
Brett Boylston, ATA  
Timothy Commers, ATA  
Gregory Crabtree, ATA  
Brandon Dorman, ATA  
Mary Fedde, ATA  
Bentley Harrison, ATA  
Richard Howard, ATA  
Jason Jeter, ATA  
Thomas Knell, ATA  
Phillip Krepp, ATA  
Doug Miller, ATA  
Cory Robertson, ATA  
Christopher Sloan, ATA  
Carlton Tart, ATA  
Michael Waller, ATA

**RETIREMENTS**  
William Barnes, AF  
Charles Bradford, ATA  
Roger Johnson, ATA  
Robert Porter, ATA  
Clark Wright, ATA

**NEW HIRES**  
Brian Allen, AF  
Latosha Barrett, ATA

Brian Blevens, ATA  
Charles Boswell, ATA  
Darren Carroll, ATA  
Nathan Crocker, ATA  
Gloria Fairchild, AF  
David Faucett, ATA  
Steve Garner, ATA  
Jason Haribans, ATA  
Elijah Johnson, ATA  
John McKelvey, AF  
Roy Mullins Jr., ATA  
Terry Rader, ATA  
Whitney Ross, ATA  
Kayrath Sayarath, ATA  
Joshua Webb, ATA  
Erik Wineland, AF

**PROMOTIONS**  
Marshall Alexander, ATA  
Steven Ardry, ATA  
Russell Austin, ATA  
Walter Berridge, ATA  
Melinda Burns, ATA  
Kirk Butler, ATA  
Nathan Campbell, ATA  
Vyrene Crowder, ATA  
Mary Fedde, ATA  
Marty Gordon, ATA  
Robert Gragg, ATA  
Ashley Gunn, ATA  
Stuart Hanson, ATA  
Coy Hargis, ATA  
Muriel Harter, ATA  
Jennifer Harvey, ATA  
Kaleigh Hatfield, ATA  
Shane Henley, ATA  
Robert Hiers III, ATA  
Michael Holland, ATA  
Kevin Holst, ATA  
Benjamin Klingler, ATA  
Phillip Krepp, ATA  
Misty Layne, ATA  
Jason McDonald, ATA  
Carrie McInturff, ATA  
Nichol Northcutt, ATA  
William Overcast, ATA  
Ezra Perkins III, ATA  
Ronnie Porter, ATA  
Terry Rayfield, ATA  
Robert Reed, ATA  
Cory Robertson, ATA  
Erin Robinson, ATA  
Casey Schewe, ATA  
David Schwer, ATA  
Johathan Seely, ATA  
William Shappley, ATA  
Bonnie Sherrell, ATA  
John Sizemore, ATA  
Kraig Smith, ATA  
Rhonda Uselton, ATA  
Eric Van Horn, ATA  
Todd VanPelt, ATA  
Brandon Wiley, ATA  
James Winchester, ATA  
Joel Wood, ATA  
Michael Wrenn, ATA  
Paul Wright, ATA

# AF to release small business research solicitations

**WRIGHT-PAT-TERSON AIR FORCE BASE, Ohio (AFNS)** – The Air Force Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) program office is set to release its fiscal year 2015 list of topics Oct. 22, on the SBIR/STTR website.

Small businesses and research institutions with expertise to address the topics' technology challenges are encouraged to submit

proposals.

During 2014, the Defense Department SBIR 2015.1 and STTR 2015.A solicitations for topics will run concurrently. The DOD pre-release is scheduled for Dec. 12, for both solicitations, which formally open Jan. 15, 2015, and close Feb. 18.

"We welcome the opportunity to work with small businesses and research institutions and expect the concurrent solicitation schedules and increased Air Force pre-release period will have a positive impact on the quality of proposals we receive from seasoned and new partners from around the country," said David Sikora, the Air Force SBIR/STTR program manager.

During the pre-release period, small businesses will have an opportunity to contact

topic authors directly to ask technical questions. However, those questions are limited to information related to improving the understanding of a particular topic's requirements.

Following this pre-release period, when the solicitation is officially opened, direct questions to the topic authors are no longer allowed. Instead, technical questions may only be submitted anonymously through the SBIR Interactive Topic Information System, where the answers will be published for all participating small businesses to read.

All proposals for the solicitations must be written and submitted according to the DOD guidelines and solicitation letters published on the SBIR resource page at <http://www.dodsbir.net/solicitation/>.

# Fright Fest provides scary night



Judges Col. James Krajewski (second from right) and Ron Stephenson (right) discuss the scoring of contestants' costumes at the Arnold Services Office Fright Fest Costume contest on Oct. 18. (Photo provided)



Shown here are the first place winners, The Scooby Doo Family, at the Arnold Services Office Fright Fest Costume contest on Oct. 18. (Photo provided)



The haunted trail at the Fright Fest. (Photo provided)



Shown here is one of the characters from the Haunted House and Haunted Trail at the Fright Fest. (Photo provided)

**By Raquel March**  
ATA Public Affairs

The Arnold Air Force Base Services Office hosted a Fright Fest on Oct. 18 for AEDC families.

Children in attendance dressed as their favorite characters for the costume contest. The first place winner was the Scooby Doo Family, the second place winner was a baby lion and the third place winner was Superman.

The Services Outdoor Recreation department also provided food and other activities such as an outdoor movie, a haunted trail and a haunted house, and a bonfire which took place at the Arnold Crockett Cove and Dogwood Ridge.



Ghouls and Ghosts make appearances at the Fright Fest Haunted Trail and Haunted House. (Photo provided)



Scary characters scare participants at the Fright Fest Haunted Trail and Haunted House. (Photo provided)

