

Long-range missile testing conducted in AEDC transonic wind tunnel



By Deidre Ortiz
ATA Public Affairs

Store separation testing of the Long Range Anti-Ship Missile (LRASM) for the F/A-18E/F Super Hornet was recently conducted in the 16-foot transonic wind tunnel (16T) at AEDC.

The LRASM is a long-range subsonic cruise missile designed for better range and survivability than current anti-ship weaponry. It is carried with the wings and tail stowed and then deployed once released from the aircraft. This missile development program is a joint effort of the Defense Advanced Research Projects Agency (DARPA), Naval Air Systems Command (NAVAIR), and the United States Air Force.

Dr. Richard Roberts, AEDC test manager for the Propulsion Wind Tunnel Facility, stated engineers assisted NAVAIR in characterizing both the separation and carriage loads of the LRASM on the F/A-18E/F.

"The release of this missile is a coordinated effort taking into account the aircraft flow field, wing and tail deployments as well as deployment timing," he said. "The goal is to determine the appropriate aircraft load out, wing and tail deployment timing and flight conditions in order to obtain a safe and controllable release or jet-tison."

According to Roberts, the 16T Captive Trajectory Support (CTS) system was used to collect aerodynamic loads on the missile.

"We combined these loads with ejector properties, missile mass properties, other initial conditions and aerodynamic corrections in order to simulate the actual trajectory of the missile," he said. "In the tunnels we do this

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An F/A-18 Super Hornet Strike Fighter Squadron 103 is parked on the flight deck of the aircraft carrier USS Dwight D. Eisenhower (CVN 69) as the ship operates in the Arabian Sea in 2006. Store separation of the Long Range Anti-Ship Missile (LRASM) for the Super Hornet, like the one pictured, was recently tested in the 16-foot transonic wind tunnel at AEDC. (DoD photo by Petty Officer 3rd Class Jason Johnston, U.S. Navy)

Combined Test Force works best for the National Full-Scale Aerodynamics Complex

By Deidre Ortiz
ATA Public Affairs

Much like AEDC Hypervelocity Wind Tunnel 9 in White Oak, Md., the National Full-scale Aerodynamics Complex (NFAC) at Moffett Field, Calif., has always operated as a Combined Test Force (CTF).

"It's how we've been working all along," said Scott Waltermire, NFAC site director and CTF chief. "We have Air Force, Army and NASA personnel assigned here. So not only do government personnel work alongside contractors

but they work with staff from other agencies as well."

Therefore, it's not unusual for government staff to be involved in the test process from start to finish, completing tasks as needed while operating as an integrated workforce.

"There have been times when contractor support is not available and so government personnel will stand watch during the test," he said. "Government personnel are also responsible for leading test director certification training."

Team members will often

jump in and perform different tasks depending on where they're needed.

"An example is that our facility engineering group will oftentimes send people to support test planning by performing design or analysis."

Waltermire mentioned NFAC has worked as a CTF and taken advantage of its various resources in part because it's offsite from the rest of the AEDC test facilities.

"Being so far away, using this type of operation has just

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ACC tells Congress and Pentagon officials AEDC vital to national security

By Kathy Gattis
ATA Public Affairs

Lawmakers and Pentagon officials recently listened as members of the Arnold Community Council (ACC) talked about the importance of AEDC and offered some no-cost initiatives for government improvement and investment in hypersonics.

The ACC makes an annual trip to Washington, D.C. to promote AEDC and garner support for the Complex. About 13 community leaders made the trip and the schedule was packed... from Pentagon meetings to

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Arnold Community Council member and Air Force Materiel Command Civic Leader, Brian Skelton (right), says hello to Senators Alexander (middle) and Corker during Tennessee Tuesday. (Photo provided)

Revolutionary Change: Source selection efforts progressing for June

AEDC Commander, Col. Raymond Toth is providing periodic updates on AEDC's Source Selection efforts to the entire workforce via email. The High Mach will print those messages and transcripts in a series titled "Revolutionary Change." Additionally, Toth's messages and other information can be found online at www.arnold.af.mil/transition.

Team AEDC,

Here is the latest news on our source selection efforts. The Source Selection Office advised me today that we must delay the award of our three locally-procured contracts:

- Base Communications and Information Technology Services (BCITS)
- Facility Support Services (FSS)
- Test Operations and Sustainment (TOS)

The projected award date for all three efforts moved from June 1 to June 10 and I will explain why below. Additionally, the Technical and Management Advisory Services (TMAS) effort timeline is officially in a "to be determined" status.

Two factors played into the decision to delay the award of our local contracts. First for the TOS acquisition, we simply needed a bit more time for the government to complete its evaluation and maximize the Air

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HIGH MACH

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An Air Force Materiel Command Test Complex

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- 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

AEDC team supports Relay for Life

By Dee Wolfe
AEDC Personnel Division

Team "REMEMBER," from AEDC, participated in the Coffee County Relay for Life which was held on the small track at the Coffee County Fairgrounds on April 24.

Team REMEMBER raised more than \$400 the night of the event and more than \$1,800 this year for cancer research. Overall, the event sponsored by the American Cancer Society, included 11 teams who raised more than \$25,000.

Relay for Life is about honoring and celebrating those who have had cancer and, just as importantly, their caregivers who work so hard to help cancer victims while they fight the disease. Relay for Life is truly an inspiring event that raises money to help end cancer and promotes how individuals can reduce their cancer risk.

With the support of thousands of volunteers around the country, Relay for Life events, along with the American Cancer Society helps to save more than 500 lives each day and thousands of lives each year.

Team REMEMBER held a bake sale prior to the event and raised several hundred dollars thanks to the generosity of AEDC employees. The team raised money at the Relay event



Shown left to right receiving massages are AEDC employees Rhonda Ward and Staff Sgt. Oscar Samame, and Team REMEMBER volunteer Amber Wolfe. Massage instructor Colt Sain (standing, left) along with massage therapy graduates Brandy Moore (standing, center) and Renee Geiger, from the Georgia Career Institute, McMinnville donated massage services as a fundraiser. (Photo provided)

by offering chair massages provided by Colt Sain and two of his students, Brandy Moore and Renee Geiger, from the Georgia Career Institute in McMinnville.

In addition to the massages, attendees had the opportunity to Wreck-A-Car with sledgehammers. The car was donated by Rollins and Sons Towing and Automotive of Tullahoma.

Several AEDC employees volunteered their time. Due to everyone's dedication and assistance, the fundraising efforts for Team REMEMBER were a huge success, according to Shawn Wolfe, chief of the AEDC Military Personnel.

"The survivor lap and caregiver lap are emotional times for the participants," Wolfe said. "As cancer survivors circled the track for the survivor lap and as survivors and their caregivers circled the track for the caregiver lap, their friends, family and teammates were there to cheer them on. Several AEDC employees and their family members participated in the survivor and caregiver laps. Then, many of the volunteers joined Team REMEMBER on the track for the Team Lap.

"We were so proud of all the people who participated in the relay event, and we hope the base's participation

in the event continues to grow each year. Even though we had a very small team, we still raised over \$1,800."

Wolfe has shared the team's participation coordination since 2009.

"We cannot say thank you enough to everyone who help make these events successful," he said.

Team REMEMBER is planning another bake sale and more information will

be released at a later date.

The Coffee County Relay for Life teams will host a Live Auction at the Beans Creek Winery on June 27 and donations for this event are currently being accepted. For more information call 454-4313.

Team REMEMBER included the following members: Shawn, Dee and daughter Amber Wolfe; Brandi Harmon and Christie Madden.

Water can make you sick

By Tech. Sgt. Joshua Suggs
AEDC Medical Aid Station

In the words of the Dave Matthews Band, "Don't drink the water" until you disinfect it.

The water that you drink from the faucet is treated usually through a filtration and chlorination processes to make it safe to consume. With the weather becoming warmer more people tend to do outside activities. There are times that you may run out of drinking water doing things such as camping or hiking.

You see a body of water and decide that you will get a drink to quench your thirst. Not so fast. That water may contain contaminants that can make you sick to include cryptosporidium, giardia lamblia, viruses, coliforms (fecal coliform). These contaminants cause gastrointestinal illness such as diarrhea, vomiting and cramps and may be caused by human and animal fecal waste in the water source.

Even in fast moving streams there is still a chance that someone who drinks the water can get sick, especially, if you are unaware

of the possible contaminants upstream.

There are, however, some ways to make the water safe to drink. Nothing will work perfectly 100 percent of the time, but the methods below will make sure that you have a better chance of not getting sick than doing nothing at all.

Travelers who are camping, hiking, or staying in remote areas may need to disinfect their drinking water. Several methods can be used.

Heat

Most germs die quickly at high temperatures. Water that has been boiled for one minute is safe to drink after it has cooled.

Filtering

A variety of filters are available from camping stores. Most have filter sizes between 0.1 and 0.4 microns, which will remove bacteria from water but will not remove viruses. New hollow fiber technology can remove viruses as well. Reverse osmosis filters remove bacteria and viruses and can also remove salt from water, which is important for ocean voyagers.

Chemicals

Tablets or packets of powder can be bought at

camping stores to disinfect water. These usually combine chemical disinfectants such as chlorine or iodine with a substance that makes the water clear and improves its taste. Follow the instructions on the package closely — you may need to wait several hours until all the germs are killed before consuming.

Ultraviolet (UV) Light

Portable units that deliver a measured dose of UV light are an effective way to disinfect small quantities of clear water. However, this technique is less effective in cloudy water since germs may be shielded from the light by small particles.

Solar Radiation

In an emergency situation, water can be disinfected with sunlight. Water in a clear plastic bottle, preferably lying on a reflective surface such as aluminum foil, will be safe to drink after a minimum of 6 hours in bright sunlight. This technique does not work on cloudy water.

For more information visit the Center for Disease (CDC) website at www.cdc.gov/travel/page/water-disinfection or the Environmental Protection Agency (EPA) website at www.epa.gov.

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Force's ability to select the best value contractor based on the requirements and evaluation criteria set forth in the solicitation.

Secondly, for the FSS and BCITS acquisitions, Federal Acquisition Regulations require us to provide a five-day window after notifying the apparently successful and unsuccessful offerors of the Source Selection Authorities' (SSA) decision. This five-day window allows the apparently unsuccessful offerors time to challenge the size standard or classification status with the Small Business Administration.

So, on the two small business efforts, BCITS and FSS, the SSAs are expected to decide on the successful offeror during the last week of May, which starts the five business day notification period for both the apparently successful and apparently unsuccessful offerors. After the five-day waiting period, assuming no protest is upheld, AEDC will issue a 1279 Report used to notify Congress and publicly announce the contract selection decision. After issuing the 1279 Report, a three-day waiting period starts which allows members of Congress to raise any concerns they may have about our selection. Assuming no congressional objections, the contracting officer will notify the successful company of their award, and I will notify you.

Congressional notification is the only requirement for the TOS effort. So, once the SSA makes the selection, AEDC will issue a 1279 Report, wait three days and assuming no congressional objections, we will make the award announcement and I will notify you.

I told our transition team to continue to plan for a July 1 transition start date. This does compress our timeline on the front end, but we've been working transition related issues for almost a year now. Starting transition on July 1 will ensure adequate time to meet our Oct 1 start date for the new contractors.

If you have questions specifically related to our transition efforts, please use our newly formed Transition Communications Team, a cross-functional, government/ATA team whose sole purpose is to respond to your questions. To learn more, head to the AEDC Contract Transition Sharepoint page <https://cs4.eis.afmc.af.mil/sites/1829/default.aspx>.

As we move forward into this multi-contractor environment, please look out for each other and keep your head and heart in the mission.

Thank you,
Col Toth

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 Team AEDC SharePoint site. 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

AEDC Transition Communication Team provides question and answer library

AEDC has been engaged in a contract re-competition for two years now and we are about to enter the transition phase for many of the future contracts.

While most employees' supervisors may be able to answer many questions, during this time AEDC employees may

need access to a team of folks who can respond to transition related questions. The AEDC Transition Team has set up the AEDC Contract Transition SharePoint page, whose primary feature is a question and answer (Q&A) library.

Employees are encouraged

to navigate to the AEDC Contract Transition SharePoint page at <https://cs4.eis.afmc.af.mil/sites/1829/default.aspx>. The Q&A library is already populated with previously asked questions. To search just use the find function in Internet Explorer, Ctrl-F.

We want your questions and feedback. Just click the AEDC Transition Communications Leads link and send us an email. Our goal is to reply to most questions within two business days and post to the Q&A library.

Additionally, we plan to

provide weekly emails containing all the answered questions from the preceding week.

For ease of navigation, there is now a link to the AEDC Contract Transition SharePoint page on the Team AEDC Portal under Links in the right-hand column.

AEDC Ground Test University gaining altitude

By Raquel March
ATA Public Affairs

As AEDC personnel make adjustments for a new Combined Test Force (CTF) construct for fiscal year 2016, opportunities for sharpening engineers' knowledge at the Complex is available through the AEDC Ground Test University (GTU).

Organizers of the university saw the potential to train engineers in a broader range of testing areas to prepare for rapidly evolving technology and a different staffing environment.

"We have a significant need to accelerate the training of our folks; both the new-hires today and technical staff that serve in broader, diverse cross-assignments," said Rob McAmis, the ATA Integrated Test and Evaluation (TE) Department director. "Additionally, we have a persistent need to train for the years ahead. Our employees will be more agile within the entire AEDC workforce and likely more mobile within

the broader aerospace and engineering industry."

Coursework is laid out in a multi-year format to aid in career development and growth as determined by the individual's desires and supervisor's needs. Training a new test engineer at AEDC has traditionally been a five to 10 year project according to AEDC Test Operations Division Senior Materiel Leader Col. Timothy West.

"The goal of GTU is to accomplish a similar amount of training in a much more compressed timeline, say five to 10 months," West said. "Obviously, there is no substitute for hands-on experience in the test environment, but GTU will allow us to accomplish many aspects of that experience in a much shorter timeframe."

The GTU curriculum offers courses in aeropropulsion and flight and will later include space and asset management courses. A GTU library exists to capture course content which may be used for reference as needed.

The courses support a variety of students at the Complex including newly hired ATA and government civilian personnel and veteran personnel who moved into a new mission area.

"Several are using this as a tool to refresh their knowledge or springboard to a slightly different job function like project management," said Mark Bymaster, a GTU coordinator and aeropropulsion product manager with the ATA TE Department. "The idea was to develop an apprenticeship type program balancing theory, systems exposure, and on the job training to produce 'smart test people.' We needed to provide a recurrent forum for subject matter experts to routinely transfer systems and process knowledge to others."

The instructors for the courses are subject matter experts employed at AEDC and the courses are not a structured class setting.

"We know that sitting in a conference room and be-

ing bombarded with PowerPoint charts for hours is not necessarily an effective way to learn," McAmis said. "We are using the GTU to experiment with different techniques of learning which includes field visits, video, lab-assignments and various on-line assignments."

GTU participant Nathan Harrison, an analysis engineer with ATA and who has been employed with AEDC for seven months, has a better understanding of the test process due to the courses he has taken.

"Participating in the Ground Test University helped me to understand how tests are supported by departments other than my own," Harrison said. "Many of the classes drew people of varying roles and helped me realize the importance of communication and collaboration within the AEDC setting. The GTU courses also made way for discussions and Q&A time with the instructors that would otherwise be less likely to happen.

Most importantly, after each GTU class I walked away with an increased drive to dig deeper and better understand what we're all trying to accomplish – especially in the technical context."

AEDC Commander Col. Raymond Toth said GTU is critical to the future of AEDC and that it will ensure the Complex's engineers and technicians will stay on the fore front of test and analysis techniques. He also expressed the importance of continuous learning in regards to keeping abreast of evolving test technologies.

"We have the experts here at AEDC, so we should use them to grow the competency of our overall workforce as we head into a future where our services and value are in increasing demand," Toth said. "Ultimately I see GTU growing into an analogue of the Test Pilot School, which focuses on the core aspects of flight test engineering, where the best and brightest of the

Air Force's engineers and technicians fight for a slot to learn from the masters of ground test engineering and analysis."

Several individuals from AEDC military, government civilian and contractor organizations are making contributions to GTU. Aeropropulsion CTF Director Lt. Col. Anthony Walker, in partnership with Bymaster, spearheads the GTU Aeropropulsion Program which began in November 2014 with curriculum direction from ATA TE Department section managers Mark Chappell and Frank Wonder; and AEDC TSTB test manager Rich Walker.

The GTU Flight Systems Program began in January 2015 with support from Propulsion Wind Tunnel (PWT) CTF Director Leo Marple, Technical Director Wayne Hawkins, ATA TE Department analyst Craig Morris and section manager Paul Jalbert.

For more information about GTU call 454-5658.

AEDC and TTU collaborate for innovative applied research



Three Tennessee Technological University (TTU) student teams presented their AEDC Collaborative Applied and Innovative Research Capstone Projects at AEDC on April 27. The three projects included development of a digital inclinometer replacement prototype, an instrumentation scanner emulator and a digital pulse counter prototype. All three projects are applied research in innovative implementations needed at AEDC with a goal of procurement and operations and maintenance (O&M) cost reductions, as well as increased flexibility and performance. Pictured left to right is ATA advisor Paul Schwer, TTU students Elijah Thomas, John Long, Doug McGary, Forest King, Jacob Dale, Zach Mansell, Ogie Hall, Jacob Rymer, Tim Condra, and Chris Nimmo; TTU advisor Dr. Ali Alouani; ATA advisor Dr. Klaus Schug; and TTU students Evan Byron and Steven Raines. (Photo by Rick Goodfriend)

By Dr. Klaus Schug

ATA Information Technology and Systems Department

Three Tennessee Technological University (TTU) student teams presented their Collaborative Applied and Innovative Research Capstone Projects at AEDC on April 27.

The three projects included development of a digital inclinometer replacement prototype, an instrumentation scanner emulator and a digital pulse counter prototype. All three projects are applied research in innovative implementations needed at AEDC with a goal of procurement and operations and maintenance (O&M) cost reductions, as well as increased flexibility and performance.

The digital fuel flow pulse meter project is currently in progress with a completion date of December 2015.

AEDC and TTU in Cookeville, Tenn., have been engaged in collaborative applied and innovative research since December 2009.

TTU senior undergraduate students form teams of three to five seniors for the department of Electrical and Computer Engineering (ECE) required senior design projects named Capstone Projects. The projects last two school semesters and AEDC provides project definitions, funding, technical support, test and integra-

tion support.

Since December 2009, 12 projects have been completed: Instrumentation Scanner Emulator; Digital Inclinometer; Bar Code Location with Mobile Bar Code Reader; Encryption Algorithms; Electrical Grid Tracer; Autonomous, Dynamically Reconfigurable Frequency Counter; Lossless Video Compression, Radio Frequency Identification (RFID) Ultra-Wideband (UWB) through Ultra High Frequency Transmission power

efficient encoding; Wireless Encrypted Ethernet Adaptor; Erasure Encoding (data compression for cybersecurity); Operational EMI (electromagnetic interference) Effects Measurement System; and an Optical Sensor Test Facility Alignment system.

These projects are used to perform market surveys, market analysis to determine what's available, define alternate implementation approaches and prototype AEDC selected implementation options.

The projects have produced a number of software and hardware working prototypes used for lowering the risk of new and innovative approaches and designs for increasing capabilities at AEDC while lowering O&M costs. The program has resulted in a number of the participating students hiring on at ATA.

Lunch was provided by the ATA Innovation Fund.

The students were accompanied by their TTU advisor, Dr.

Ali Alouani. ATA advisors and helpers included Marshall Alexander, Wayne King, Paul Schwer, Jamey Morris, Stephen Powell, Greg Renner, Dr. Klaus Schug and others from the ATA Information Technology and Systems Department (IT&S).

Anyone with proposals for Capstone projects, within the scope of undergraduate students and their resources, is encouraged to submit ideas by calling the IT&S at 454-3357.

ATA donates to Tennessee College of Applied Technology



Shown left to right is Industrial Electricity Night Instructor Houston Prater; ATA Employee and Community Activities Committee member Brandi Harmon; Industrial Electricity Instructor Shannon Long; ATA Test Support Branch Manager Walt Bishop and ATA Public Affairs Manager Kathy Gattis. (Photo provided)

By Kathy Gattis

ATA Public Affairs

ATA donated \$1,100 recently to the Tennessee College of Applied Technology-Shelbyville.

The money will be used to construct motor process control trainers for the class.

According to Industrial Electricity Instructor Shannon Long, the trainers will help in teaching the students motor controls, process controls and troubleshooting skills.

"This will also help me bring in more up to date products to give my students an edge," Long said. "It is our goal to become the leading industry provider for future electricians."

ATA donates \$2,000 to Air Force Junior ROTC



ATA donated \$2,000 recently to the Air Force Junior ROTC program at Franklin County High School (FCHS). The company's Mission Support Director, Pat Eagan, talked with the students about the importance of military service and the AEDC mission. The instructor, Everett Smith, said the money will be used to buy the required shirts and socks for the current group plus 30 incoming freshmen. The Junior ROTC program doesn't receive any funds from the Air Force. (Left) Diana Spaulding, secondary supervisor, Career and Technical Education; Cadet Lt. Col. Austin Stewart, Cadet group commander; CMSgt. Everett Smith, Air Force Junior ROTC senior aerospace instructor; Pat Eagan, ATA Mission Support director; Cadet Capt. Triston Brown, Cadet Operations Squadron commander and Dr. Rebecca Sharber, Franklin County director of schools. (Photo provided)

AEDC Air Force Sergeants Association hosts annual bike-a-thon

By Raquel March
ATA Public Affairs

The AEDC Air Force Sergeants Association (AFSA) Chapter 477 will host the annual Tech Sgt. Gene Jobe Memorial Bike-a-thon on June 19 at 8 a.m. to raise funds for the AEDC Veterans Picnic, the AEDC Children's Christmas Party and other quality-of-life initiatives.

The bike-a-thon formally began in 2010 to honor the memory of Tech. Sgt. Gene Jobe, a 21-year career Air Force member and the late father-in-law of former AEDC Chaplain, Maj. Paul Gunn. Jobe was a lifetime AFSA member.

Riders can register by emailing Arnold.AFSACChapter477@us.af.mil.

Pledges and donations will be collected at Café 100 on June 2-4 and 16-18 between 11 a.m. and 1 p.m. If you cannot make it to Café 100 and would like to contribute, please call 454-6194 or 454-5635.

AFSA is a non-profit organization that represents the professional and personal interests of more than 130,000 active, retired and veteran total enlisted members of the U.S. Air Force and their families.



AEDC Commander Col. Raymond Toth fires the starting pistol for 19 cyclists who participated in the third annual bike-a-thon in 2012 to honor the memory of Tech. Sgt. Gene Jobe, a 21 year career Air Force member. (Photo by Jacqueline Cowan)

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in three steps, first we collect the free stream data, which is simply the aerodynamics of the missile outside of the aircraft flow field. Second, we calculate the trajectory, or path, of the missile as it leaves the pylon. Third, based on the trajectory, we collect grid data which compares the

missile free stream aerodynamics to the missile aerodynamics seen in the aircraft flow field in order to determine the effect of the aircraft flow field on the missile behavior."

The second installation of the test article measured loads on the missile while it is still attached to the aircraft.

"This part of the test ensured that the loads on the missile over the intended flight regime do not exceed its structural limits," Roberts said. "This is accomplished by mounting the missile to the aircraft through a balance that uses strain gages to measure the forces and moments en-

countered as the aircraft is moved through certain test conditions."

These particular tests were a collaboration between AEDC test teams and NAVAIR, Boeing and Lockheed Martin.

Roberts mentioned that the test was similar to past tests, as the separation and

loads of many types of missiles, bombs, pods, fuel tanks and other stores from this aircraft have also undergone testing at AEDC.

"NAVAIR has been a major partner in our wind tunnel testing mission for many years and continues to be."

The Super Hornet

sports a total of 11 weapon stations. Its single-seat 'E' model and two-seat 'F' model perform a variety of missions that include fighter escort, close air support, enemy air defense suppression, day and night strikes with precision-guided weapons, and tanker.

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a breakfast with elected officials and their staffs; meetings with the Defense Support Initiative (DSI), Eglin's equivalent of the ACC; appointments with Senators Alexander and Corker; Congressman Black and DesJarlais and others in the Tennessee delegation.

A major player in the planning and execution of the ACC trip was the ACC Legislative Affairs Chairperson, Mike Niederhauser. He scheduled the appointments and planned the breakfast for elected officials and their staff members.

"Mike Niederhauser's leadership as the ACC Legislative Affairs Chairman resulted in two action-packed days of appointments with Congressmen, Senators and staffers," ACC President Jim Jolliffe said. "Our ability to meet with them and share the importance of AEDC and the Major Range and Test Facility Base was invaluable."

Niederhauser was quick to praise Jolliffe's leadership (Jolliffe coordinated the visits to the Pentagon) and offered some other *thank you*



ACC Legislative Affairs Chair Mike Niederhauser listens as Congressman Diane Black talks to members of Arnold Community Council during their recent trip to Washington, D.C. to promote AEDC. (Photo provided)

as well.

"With the outstanding assistance of the Congressional Range and Test Center Caucus (CRTCC) co-chairs, we had the most effective trip we have ever had," Niederhauser said. "We want to thank Representatives Diane Black and Tulsi Gabbard along with their staffs for their assistance both before and during the trip. With the outstanding preparation of Tom Best (Long Range

Planning Chair) and his team and the leadership of JJ Jolliffe (ACC President) and the well trained teams, we were able to deliver a well received and informative message.

I want to thank everyone who worked so hard while we were in DC," he said.

The CRTCC (<http://rangeandtestingcaucus-black.house.gov>) was formed in 2014 and focuses on how the country's T&E infra-

structure works together to field safe and effective military capabilities in support of national defense.

Tullahoma Mayor Lane Curlee said it was an eye-opening experience.

"On Monday we visited the Pentagon (my first-ever visit)," he said. It was fascinating. The Pentagon houses the Joint Chiefs of Staff, along with the Secretaries of the Air Force, Marines, Army and Navy. During

our time in Washington we visited 23 congressmen. I believe many good contacts were made."

Another traveler, Jack Stewart, who has made similar trips since 1999 agreed that this is the most productive trip ACC has made. Stewart is a liaison between ACC and the Edwards AFB community organizations.

"I have been active with the ACC and representing Edwards at the same time

since 2011," Stewart noted. "In terms of the meetings and working with Edwards and Eglin community groups, this was the best trip yet."

Stewart has worked with both of the Edwards councils, Antelope Valley Board of Trade (AVBOT) and the Edwards Civ Mil organization.

"Since 1999 I have been making trips to Washington as a director and then vice president of the AVBOT and later the director of Edwards Civ Mil. I am a strong advocate of the Air Force, AEDC and Edwards," Stewart said.

ACC President Jim Jolliffe said was pleased with the coordinating between the community councils. "As a result (of the coordination), we delivered consistent messages to similar leaders in both DOD and Congress. We even shared appointments on some of our office calls to elected officials and their staffs," Jolliffe said.

The initiatives supported and presented by ACC members can be found on their web site at www.arnoldcommunitycouncil.com.

AFMC's Wingman Intervention program going strong

By Air Force Materiel Command Public Affairs

WRIGHT-PATERSON AIR FORCE BASE, Ohio – More than a year after it was introduced, Air Force Materiel Command's Wingman Intervention program is still going strong.

"During the spring 2013 Wingman Day, AFMC made a concerted effort to provide its Airmen with the skills and confidence they need to safely intervene when they see fellow Airmen entering into potentially harmful situations, both on and off duty," said Jennifer Treat, AFMC Community Support Coordinator.

To build on that theme,

AFMC launched an initiative in the fall of 2013 to capture, acknowledge and highlight real-life instances where Airmen took action to keep themselves and their wingmen safe. The goal of the Wingman Intervention program is to turn those situations – where personnel recognized at-risk behavior and proactively intervened – into teachable moments and to encourage similar behavior in others. So far, more than 30 interventions have been highlighted.

"A good wingman stays alert for signs of danger from whatever source – whether suicide, safety mishaps, alcohol abuse, sexual assault, bullying, medical issues or other

difficulties – and gets involved by knowing their fellow Airmen and assisting when necessary," Treat continued. "We're proud to have so many true wingmen in our command who look out for the welfare of their colleagues and community."

As a recent example of successful wingman intervention, an Airman was volunteering at an off-duty event when he noticed a teenager collapsed, unconscious, and with a blocked airway. The Airman directed a bystander to contact emergency services while he cleared the teenager's airway. The teenager regained consciousness and began breathing, and the wingman monitored his vitals and kept him engaged until an ambulance arrived. At the emergency room, it was discovered that the teenager, a diabetic, had not taken his insulin and was just above a diabetic coma state. The quick thinking of the wingman kept a bad situation from becoming potentially fatal.

In another situation, a supervisor received an email from an employee stating she wouldn't be at work. The supervisor was disturbed by the tone of the message and worried that something was wrong. The supervisor and the commander attempted to reach both the employee and her family members by phone, and when the attempts failed they contacted the

Employee Assistance Program. EAP recommended a welfare visit by the county sheriff's department. When the sheriff's department arrived, the employee agreed to check herself into the hospital for help. By staying engaged and being concerned, the supervisor and commander ensured their employee got the help she needed.

In yet another example, a wingman noticed a neighbor's outdoor trash bin on fire. He called the fire department, used buckets of water to extinguish the flames and moved the bin away from the house. The wingman continued to soak the bin – filled with embers – with water until the fire department arrived and took over the scene. Thanks to the vigilance of the wingman, no damage was done to the house or yard.

Finally, when an Airman was in shock after the death of her boyfriend in an automobile accident, her supervisor had a co-worker stay with the Airman so she wasn't alone. The compassion of the wingmen in this situation ensured the Airman had a comfortable presence and assistance during a difficult time.

If you become aware of situations in which personnel have recognized at-risk behaviors and proactively intervened, please contact your local Community Support Coordinator.

COMBINED from page 1



AEDC's National Full-Scale Aerodynamic Complex (NFAC) wind tunnel mechanics Todd Fuller and Kent Griffin assisted in the installation of NASA's cruise efficient short take-off and landing (CESTOL) model to the sting, pitch mechanism in the 40 by 80-foot test section. (Photo provided)

been logical," he said. "I don't see any other way we could operate."

In addition, being located at the National Aeronautics and Space Administration (NASA) Ames Research Center, NFAC has established a partner-

ship with NASA, receiving assistance from the organization when necessary.

"If a test requires, we go to our partners at Ames and work together with them to make sure the requirements are met," Waltermire said.

He added it's been beneficial having all these groups – contractor, DOD, government and other agencies – work together.

"The facility is completely integrated which allows us to stay mission focused."



Share the road with motorcycles

This day in espionage history

By AEDC Industrial Security

May 27, 2006 – Haviz Ahmad Ali Shaaban sentenced to 13 years 4 months in prison for conspiracy against the U.S. and other charges.

May 31, 1994 – Jeffery Eugene Gregory sentenced by a military court to 18 years in prison.

June 5, 1986 – Ronald William Pelton convicted on one count of conspiracy and two counts of espionage.

June 6, 1997 – Harold James Nicholson sentenced to 23 years and 7 months in prison.

Harold James Nicholson

- ❖ GS-15 with the CIA
- ❖ Passed a wide range of highly classified information to Moscow, including biographic information on every CIA case officer trained between 1994 and 1996
- ❖ Suspected of having compromised the identities of U.S. and foreign business people who have provided information to the CIA
- ❖ November 21, 1996 indicted on one count of conspiracy to commit espionage
- ❖ March 3, 1997, pleaded guilty under a plea agreement
- ❖ Highest ranking CIA officer charged with espionage

Adaptive Compliant Trailing Edge test last flight

By 88th Air Base Wing
Office of Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio (AFNS) – A team of researchers from the Air Force Research Laboratory, NASA and FlexSys Inc., accomplished a long sought goal in aviation research April 22, with the last flight of the Adaptive Compliant Trailing Edge (ACTE) Flight Research program.

A radically new morphing wing technology called FlexFoil exceeded all expectations in flight testing. The ACTE program completed 22 research flights between Nov. 6, 2014, and

April 22, at NASA Armstrong Flight Research Center on Edwards Air Force Base, California.

Positive results from the flight tests indicate that FlexFoil, which can be retrofitted to existing aircraft wings or integrated into entirely new airframes, is ready to revolutionize aircraft wing design. The technology enables engineers to reduce wing structural weight and to aerodynamically tailor the wings throughout the flight envelope to promote improved fuel economy and more efficient operations, while reducing environmental and noise impacts.

AFRL began work with

FlexSys Inc., of Ann Arbor, Michigan, in 1998, through the Small Business Innovative Research (SBIR) program. AFRL and FlexSys Inc. developed and wind-tunnel tested several wing leading and trailing edge designs for various aircraft configurations through 2006.

In 2009, AFRL and NASA's Environmentally Responsible Aviation (ERA) project agreed to equip a Gulfstream III jet with new flap surfaces designed and built by FlexSys Inc., incorporating its proprietary FlexFoil Variable Geometry technology.

After seeing a morphing wing demonstration,

Maj. Gen. Tom Masiello, the AFRL commander, said, "Here's another example of a successful government research partnership with small business to advance a very exciting aerospace technology for transition."

Flight testing was key to proving the concept's airworthiness. The Gulfstream III was flown with its experimental surfaces at flap angles ranging from -2 degrees up to 30 degrees. Initial ACTE flight testing supported one of ERA's eight integrated technology demonstrations to explore design improvements for reducing drag, weight, noise, emis-

sions and fuel consumption.

"The purpose of these tests was to see if flexible trailing edge wing flaps could improve aerodynamic efficiency and reduce the noise generated during takeoffs and landings," said Fay Collier, the ERA project manager.

Pete Flick, the AFRL program manager at Wright-Patterson AFB, added, "We are thrilled to have accomplished all of our flight test goals without encountering any significant technical issues. These flights cap 17 years of technology maturation. The technology is now ready to dramatically im-

prove aircraft efficiency for the Air Force and the commercial aviation industry."

Sridhar Kota, inventor of FlexFoil technology and founder of FlexSys Inc., was equally enthusiastic.

"Thanks to AFRL for its vision and leadership in recognizing the merits of our technology 17 years ago and supporting the development all the way through these flight tests, and thanks to NASA for its expertise and contributions in conducting the flight test," said Kota, who is also a professor of mechanical engineering at the University of Michigan.

Increased mission requirements open doors for continued service

By Secretary of the Air
Force Public Affairs

WASHINGTON (AFNS) – The Air Force is introducing several personnel and manpower initiatives to meet increased mission requirements outlined in the fiscal year 2016 President's Budget.

In order to enhance operational and mission capacity in support of combatant commanders, and to maintain readiness, the Air Force is setting a minimum active-duty force level of 317,000 as established in

the fiscal 2016 President's Budget submission. The Air Force is undergoing a concerted effort to stabilize and grow the force by fiscal 2017, to include addressing key gaps in the nuclear, cyber, intelligence, surveillance and reconnaissance, and support career fields.

The Air Force is using the most direct way to grow the force by increasing the accessions of enlisted Airmen entering basic military training and the numbers of officers being commissioned. To complement those efforts, the Air

Force is also offering opportunities to retain key experience and increase operational manning levels through targeted voluntary high year of tenure (HYT) extensions, Voluntary Limited Period of Active Duty Program affording opportunities to members of the Air Reserve Component to serve an active-duty tour, and Direct Duty Prior Service Enlistment Program opening doors for prior-service enlisted members to return to active duty.

The focus of these programs is to increase the

number of experienced Airmen in undermanned specialties such as nuclear, cyber, intelligence, surveillance and reconnaissance, and special operations. The Air Force specialties covered under these programs were not eligible to participate in any of the targeted fiscal 2014 voluntary or involuntary force management programs. The one exception was the Quality Force Review Board, where all Airmen with some negative quality factors were considered regardless of their specialty.

"While we are working to increase our overall number of Airmen, we particularly focused on adding mid-level experienced Airmen in some of our currently undermanned specialties to help meet mission requirements immediately," said Brig. Gen. Brian Kelly, the director of military force management policy.

The new programs being launched are designed to meet the need for experienced Airmen in critically undermanned specialties such as nuclear, cyber, in-

telligence, remotely piloted aircraft and special operations.

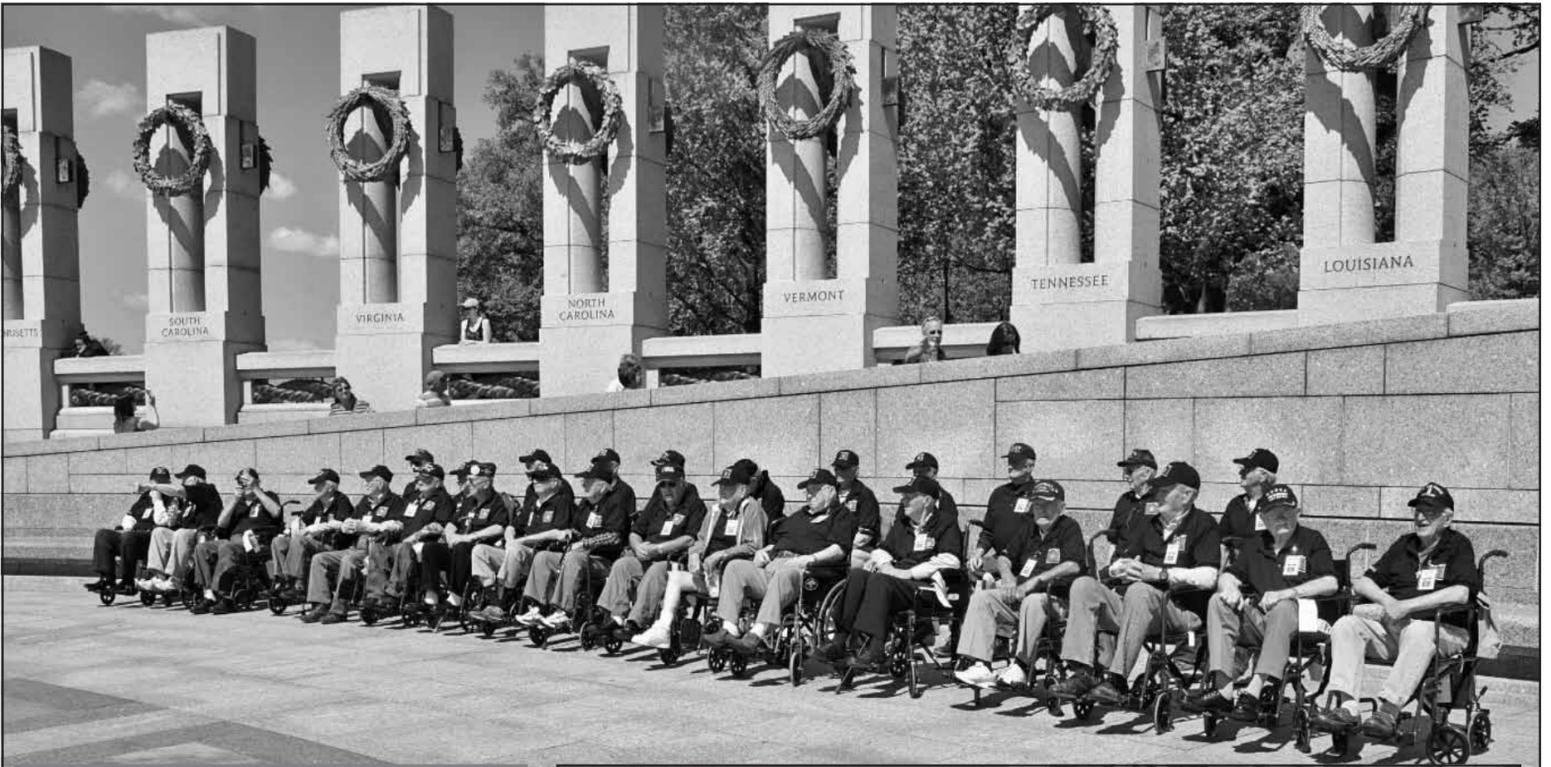
Voluntary HYT extensions are being offered to senior airmen, staff sergeants, technical sergeants and master sergeants in targeted specialties; however, Airmen will only be approved if recommended for the extension by their unit commander or civilian leader. The length of the extension can vary depending on each Airman's situation. Specific details on the fiscal 2015 HYT extension program will be released by AFPC and available via myPers May 18.

Opportunities to serve an active-duty tour for a period of up to three years will be offered to members of the Air Reserve Component in targeted Air Force specialties. The Voluntary Limited Period of Active Duty Program allows the Air Force to increase experience in mid-level grades by leveraging trained Airmen from the Air Force Reserves and Air National Guard. These Airmen will receive the same benefits as active-duty Airmen, such as qualifying for the Post 9/11 GI Bill, while serving a tour on active duty. Further information, such as which grades and specialties are eligible, will also be available in the coming weeks.

Under the Direct Duty Prior Service Enlistment Program, applicants must have separated from the active-duty Air Force, or be separated from or currently serving in the ANG or Air Force Reserve in the grade of senior airman through technical sergeant as a fully qualified 5- or 7-level in one of the designated Air Force specialties. Army, Navy or Marine Corps service members may also be eligible if they served in a career field equivalent to one of the specialties targeted in the fiscal 2015 program. Under this program, applicants are not eligible to receive a reenlistment bonus.

Airmen interested in applying for HYT or the Voluntary Limited Period of Active Duty Program are encouraged to review the additional eligibility details on **myPers**. Prior service members interested in Direct Duty Prior Service Enlistment Program can find information at <http://www.airforce.com/contact-us/faq/prior-service/> or contact their local recruiter.

Area veterans visit D.C. as part of Honor Flight



World War II and Korean War Era veterans from the region went on the fourteenth Honor Flight of Middle Tennessee to tour Washington, D.C. The Honor Flight for this area began in the spring of 2008 under the direction of Milton Schaefer of Winchester, Tenn. Today the flight continues twice a year, in the spring and in the fall under the direction of Board Chairman Claude Morse, U.S. Air Force retired, and Vice Chairman Lana Bradford of Tullahoma. On the most recent flight, May 2, veterans from Franklin County, Coffee County, Shelby County, Bedford County, Grundy County, Marion County, Hamilton County and from the State of Kentucky enjoyed a memorable day visiting the memorials. (Photo provided)



During the same time the World War II and Korean War veterans from this area were in Washington, D.C. as part of the Honor Flight of Middle Tennessee, students from the Columbia Academy of Columbia, Tenn., were also visiting. Pictured are the two groups together at the World War II Memorial. (Photo provided)

GPS satellite blasts off from 'The Cape'

By 45th Space Wing
Public Affairs

CAPE CANAVERAL
AIR FORCE STATION,
Fla. (AFNS) – The 45th
Space Wing supported

the successful launch of a United Launch Alliance (ULA) Delta IV rocket carrying the Air Force's ninth Block IIF-9 navigation satellite from Launch Complex 37 at Cape Canaveral.

The recent launch marks the 29th Delta IV launch and the 57th operational GPS satellite to launch on a ULA heritage launch vehicle.

Delta IV has delivered numerous satellites for the National Reconnaissance Office (NRO), as well as GPS satellites for the Air Force and weather satellites for NASA, according to a ULA media release.

"I'm elated with today's successful launch, the GPS constellation remains healthy, strong

and robust; and in over 20 years since initial operational capability, GPS has never failed to deliver on its global positioning, navigation and timing commitments," said Brig. Gen. Cooley, the director of the Space and Missile Systems Center's GPS Directorate.

"Each new generation

of GPS satellites provides enhanced capability over the prior generations, and has delivered reliable performance demonstrating our commitment that GPS remain the gold standard space-based positioning, navigation and timing service for the future," he said. "Thanks to the men and women of SMC, the 45th, 50th, 310th Space Wings, Boeing, United Launch Alliance, the Aerospace Corporation, GPS IIF and Delta IV launch teams, the GPS IIF program continues to meet GPS enterprise needs."

Created by the Department of Defense to enhance military warfighting capability, GPS is available for use, free of charge, to anyone with a GPS receiver. U.S. and allied military forces use GPS devices in virtually every system to improve their capabilities and effectiveness while reducing risk to their forces and non-combatants. From finance to farming, use by the civilian community continues to grow rapidly and new commercial applications are continuously being developed.

The GPS IIF system brings next-generation performance to the constellation. The GPS IIF vehicle is critical to national security and sustaining GPS constellation availability for global, civil, commercial and defense applications. Besides sustaining the GPS constellation, IIF features more capability and improved mission performance.

AEDC quarterly award winners announced



Capt. Paul Malone
Company Grade Officer of the Quarter



Master Sgt. Heather Yates
Senior Non-Commissioned Officer of the Quarter



Tech. Sgt. Beverly Spademan
Non-Commissioned Officer of the Quarter



1st Lt. Akshay Tripathi
Honor Guard of the Quarter



Sharon Arnold
Civilian of the Quarter
Clerical/Technical Support



Ray Kelly
Civilian of the Quarter
Administrative



John Claybrook
Civilian of the Quarter
Scientist/Engineer

First female F-35 pilot begins training

By 1st Lt. Hope Cronin
33rd Fighter Wing Public Affairs

EGLIN AIR FORCE BASE, Fla. (AFNS) – The Department of Defense welcomed its first female F-35 Lightning II pilot here May 5.

Lt. Col. Christine Mau, the 33rd Fighter Wing Operations Group deputy commander, completed her first training flight in the single-seat fifth-generation fighter following 14 virtual training missions in the full mission simulator at the F-35 Academic Training Center.

“It wasn’t until I was taxiing to the runway that it really struck me that I was on my own in the jet,” said Mau, formerly an F-15E Strike Eagle pilot. “I had a chase aircraft, but there was no weapons system officer

or instructor pilot sitting behind me, and no one in my ear like in simulators.”

And with that, like the other 87 F-35A pilots trained over the last four years, Mau thundered down the runway and was airborne as the first woman in the Air Force’s premier fighter.

“It felt great to get airborne. The jet flies like a dream, and seeing the systems interact is impressive. Flying with the Helmet Mounted Display (System) takes some adjusting, but it’s an easy adjustment,” Mau said. “The training missions in the simulator prepare you very well, so you’re ready for that flight.”

The initial flight in the F-35 training syllabus is designed to orient pilots with the physical

See F-35, page 10



Lt. Col. Christine Mau, the 33rd Operations Group deputy commander, puts on her helmet before taking her first flight in the F-35A Lightning II at Eglin Air Force Base, Fla., May 5. Mau, who previously flew F-15E Strike Eagles, made history as the first female F-35 pilot in the program. (U.S. Air Force photo/Staff Sgt. Marleah Robertson)

ATA personnel receive awards for outstanding performance



John Ayres
Craftsperson of the Quarter
Mission Support Department,
Fuels/Utility Operations and
Maintenance



Marcus Frey
Craftsperson of the Quarter
Integrated Test and Evaluation
Department, Test Operations
and Maintenance



Jackie Hensley II
Craftsperson of the Quarter
Mission Support Department,
Emergency Services



James Melton
Craftsperson of the Quarter
Mission Support Department,
Fabrication, Installation,
Maintenance and Support



James Pickett
Craftsperson of the Quarter
Test Assets and Support
Department, Plant Operations
and Maintenance



Henry Horne
Technical Excellence in
Engineering of the Quarter
Integrated Test and Evaluation
Department, Engineering
Analysis



Dr. Joseph Sheeley
Technical Excellence in
Engineering of the Quarter
Integrated Test and Evaluation
Department, Engineering and
Facilities Design



Melody Gilliam
Administrative and
Professional Support
Services of the Quarter
Performance Management
Department, Support Services



Randy Nunley
Administrative and
Professional Support
Services of the Quarter
Mission Support Department,
Tech. Spec. and Admin
Professional



Deborah Rickner
Administrative and
Professional Support
Services of the Quarter
Mission Support Department,
Administrative Support



Joshua Blair
Operations and System
Engineer of the Quarter
Test Assets and Support
Department, Maintenance
Engineering



Gary Hammock II
Program Manager of the
Quarter
Integrated Test and Evaluation
Department, External
Customer Program Manager



Brent Morris
Program Manager of the
Quarter
Test Assets and Support De-
partment, Internal Customer
Program Manager

F-35 from page 9



Lt. Col. Christine Mau, the 33rd Operations Group deputy commander, navigates her F-35A Lightning II through the “bird bath” after returning from her first F-35 flight at Eglin Air Force Base, Fla., May 5. Mau, who previously flew F-15E Strike Eagles, made history as the first female F-35 pilot in the program. (U.S. Air Force photo/Staff Sgt. Marleah Robertson)

aspects of flying the F-35 compared to other fighters they’ve flown previously, such as the F-15E Strike Eagle, F-15C Eagle, F-16 Falcon, A-10 Warthog or F-22 Raptor.

Women have served in combat aviation roles in those and other aircraft for more than 20 years.

Mau acknowledged that although she may be the first female in the F-35 program, her gender has no bearing on her performance as a fighter pilot. She joked that the only difference between her and her fellow

F-35 pilots is the size of her G-suit and facemask – they are both extra small.

“Flying is a great equalizer,” Mau said. “The plane doesn’t know or care about your gender as a pilot, nor do the ground troops who need your support. You just have to perform. That’s all anyone cares about when you’re up there – that you can do your job, and that you do it exceptionally well.”

Mau’s combat experience and technical prowess in the cockpit were the primary draws for her selec-

tion to her position with the 33rd OG.

“Lt. Col. Mau brings a valuable level of combat and operational knowledge to our team,” said Col. Todd Canterbury, the 33rd FW commander. “We’re nearly a year out from declaring Initial Operational Capability with the F-35. We need battle-tested pilots to help us put the F-35A through its paces and ensure we have a trained and ready force of F-35 pilots to feed into our combat air forces.”

Canterbury witnessed Mau’s leadership and com-

bat effectiveness first hand when they were both deployed to Afghanistan in 2011, where she was part of another important milestone for women in the combat aviation community.

While with the 389th Expeditionary Fighter Squadron, Mau was part of the first all-female combat sortie. The combat mission provided air support to coalition and Afghan forces in the Kunar Valley, Afghanistan. From the pilots and weapons system officers of the two F-15E jets to the mission planners and maintainers, the entire mission was carried out entirely by women.

“As a service, we need to attract the most innovative and skillful Airmen possible for one reason – it makes us more effective,” Canterbury said. “The broader the net that we cast into the talent pool, coupled with a laser focus on performance, ensures we have the best Airmen in place to carry out the mission. Performance is key, and it’s the standard we hold all of our Airmen to in the Air Force.”



Weapons load

Weapons loaders assigned to Air Force Global Strike Command secure air-launched cruise missiles on a B-52H Stratofortress during an aircraft generation event during Exercise Constant Vigilance at Minot Air Force Base, N.D., May 7. Training and exercise participation hones AFGSC's nuclear deterrence and long-range strike capabilities, ensuring the command is ready to support the president and combatant commanders if and when called upon to do so. (U.S. Air Force photo/Senior Airman Kristoffer Kaubisch)

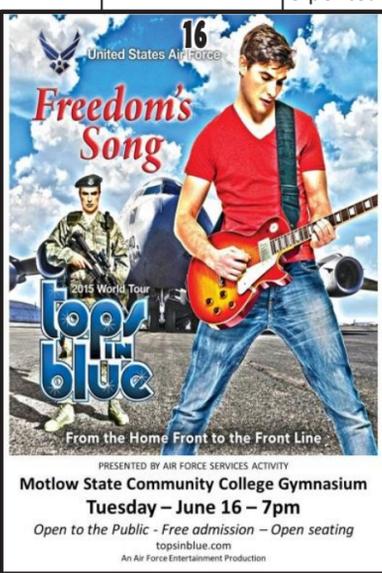


Arnold AFB
SERVICES
Combat Support & Community Service

ALC – Arnold Lakeside Center, 454-3350
Café – Café 100, A&E, 454-5885
ODR – Outdoor Recreation, 454-6084
RRRP – Recycling, 454-6068
Marketing/Sponsorship – 454-3128
Barber Shop – 454-6987

GC – Arnold Golf Course, 454-GOLF
MG – Mulligan's Grill, GC, 454-FOOD
FC – Fitness Center, 454-6440
WI – Wingo Inn, lodging, 454-3051
Resource Management – 454-7425
Admin – 454-7779

June
2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
 Call ITT for discount attraction tickets 454-4003	1 FC: Group Exercise Incentive through Aug <i>For eligible users</i> Top 3 to participate in the most classes win Fit Bit	3	4 Movie: Paddington	5 ALC: First Friday Jam 6pm	6 ODR: Movie in the Park – <i>Penguins of Madagascar</i> For all ODR camping guests Starts at dusk (apx 7pm) at FamCamp Bring chair/blanket Burgers, dogs & popcorn for purchase	
7	8	9 ALC: Book Fair in Café 100 9am-3pm	10 FC: Golden Baton Relay 8am front of A&E 5 per team	11 Movie: Strange Magic	12	13 GC: Member-Guest 2-Day Tournament begins 8am \$125 per team cart extra includes Sun lunch 2 person scramble <i>Sign up in advance</i> 
14 GC: Member-Guest Tournament Day 2 8am Lunch after play	15	 From the Home Front to the Front Line PRESENTED BY AIR FORCE SERVICES ACTIVITY Motlow State Community College Gymnasium Tuesday – June 16 – 7pm Open to the Public - Free admission – Open seating topsinblue.com An Air Force Entertainment Production		17	18 ALC: Brushes & Bottles \$25 GLC 6pm Sign up by Jun 11  Movie: Project Almanac	19 ODR: Fishing Frenzy 8-11am \$5 open to all ages Bring fishing equipment, bait, and fishing license (may purchase from ODR-age 12/under not required) Fishing from our pontoon boats Space is limited <i>Sign up by Jun 6</i> 454-6084 
21 ALC Dining Room Thu 5-8pm Fri 5-9pm Sat 5-9pm	22	23	24	25 No Movie due to special event	26 ALC: Last Friday Trivia 6:30pm	27 ODR: Stand Up Paddleboard Class 10am-noon \$10 age 13+ <i>Sign up by Jun 20</i>
28	29	30	Rent an inflatable from Outdoor Rec for your summer events! Slides, bouncy, basketball, and obstacle			

