



HIGH MACH

Serving the World's Premier Flight Simulation Test Complex



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AEDC-tested C-5M Super Galaxy cast light on fuel-saving

Pressure-Sensitive Paint provides enlightening aerodynamic data

A C-5M Super Galaxy wind tunnel model undergoes aerodynamic loads testing at Arnold Engineering Development Complex's 16T Transonic Wind Tunnel October 15, to determine if efficiencies can be gained by adding winglets to the cargo aircraft. Widely used in industry, winglets improve airflow around the wing tips providing efficiency by reducing drag which conserves fuel and allows for longer flight duration. The C-5 Galaxy family of cargo aircraft have been in the United States Air Force inventory since 1970 and are the largest cargo aircraft flown by the service with a cargo capacity of 270,000 pounds and an unrefueled tactical range of 4,800 miles (with 120,000 pounds of wartime planned cargo). (Photo by Rick Goodfriend)

See an additional C-5M photo, page 7



AEDC Hypervelocity Tunnel 9 returns to mission testing after 'Super Storm' Sandy

By Philip Lorenz III
ATA Public Affairs

As images of the recent and devastatingly record-breaking "Super Storm" Tropical Cyclone Sandy's impact have reached people worldwide, an email message from Dan Marren, the director of AEDC's Hypervelocity Wind Tunnel 9 Facility in White Oak, Md., bore very good news.

Addressed to Air Force Materiel Command (AFMC) and Arnold Engineering Development Complex's (AEDC) leadership and workforce, the subject line reads "White Oak Status 10/31 at 0900 hours - Site power restored."

Marren reported "As I write, operations started [Oct. 31] at 5:30 a.m., with deliberate system checks and reboots, the sound of the compressors running is music to the customer's ears. Tunnel 9 will continue the important CPGS (Conventional Prompt Global Strike) testing in earnest today, continuing our busiest year yet at full capacity."

Tunnel 9, located at White Oak near Silver Spring, Md., provides aerodynamic simulation critical to hypersonic system development and hypersonic vehicle technologies.

The facility supports testing for Air

Force, Navy, Army, Missile Defense Agency, and NASA programs, as well as advanced hypersonic technologies such as wave-rider-type vehicles, scramjets and trans-atmospheric space planes.

"Tunnel 9 is back in business for mission-critical testing after the area was slammed by Super Storm Sandy," Marren said the day after the event was still making news headlines around the world and people on the East coast of the U.S. were reeling from its impact.

"Being geographically separated from the main base brings challenges beyond purely technical," Marren said. "Our technical and administrative staff prepares for and recovers from events from standard emergency response to storms. We feel a very real sense of mission as we protect our people first, look out for each other and guarantee the mission continues with minimal impact."

Marren added, "Everyone here has additional volunteer duties that contribute materially to that success and I am grateful to work for these folks. The combination of setting up good procedures, manning a round the clock command post, and coordinating with local responders on-site is something we have been improving each year. It's not perfect, but it's better than the last time and not as good as the next time."



Arnold Engineering Development Complex Commander, Col. Raymond Toth (left) gives a special coin to students at Franklin County High School to congratulate them on a job well done. (Photo by Jackie Cowan)

Franklin County High School, and AEDC work hand-in-hand

By Kathy Gattis
ATA Public Affairs

When Arnold Engineering Development Complex (AEDC) needed tables built for a Science, Technology, Engineering and Math (STEM) competition, they turned to Franklin County High School's (FCHS) carpentry class.

The requirements were very specific and time was of the essence. The students had about one and half months to get the job done and to complete all of their required safety training.

When FCHS first received the call from AEDC, Jerry Venson, a FCHS instructor, was eager to accept the challenge.

"I think it is always good for our students to interact with the community leaders for guidance and career connections, as well as giving back to the community," said Venson. "The students were excited and pleased about the chance to build the tables."

The tables were needed for upcoming Lego League competitions. Lego League is an international competition for students that focuses on a different real-world topic related to the sciences each year. The robotics part of the competition revolves around designing and programming robots

to complete various tasks.

During a recent ceremony at the high school, the finished tables were given to AEDC leadership.

Jere Matty, AEDC STEM Coordinator, did a robot demonstration to show students exactly how the tables would be used.

"The tables are key to the Lego League since these tables are used to 'train' the robots for the upcoming contests," said Matty.

"We had the idea of having the students build these tables since they will be used by other students in area middle schools and FCHS has a very talented and willing instructor in Mr. Venson."

"This year I have two advanced classes and this definitely helped us in getting the tables done in the time allotted," said Venson. "I had a total of 25 students working on them and they enjoyed getting the chance to do it and I think they did a great job."

AEDC Commander, Col. Raymond Toth, agreed. He also told the carpentry students why the work they do is so im-

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AEDC builds a 'microsatellite'

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HIGH MACH

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- Nurture, enable and treat people fairly
- Align with customer goals and objectives
 - Use disciplined and innovative processes
- Continually improve in all that we do

10 Ways to save on your winter heating bills

Commentary by **Randolph Seward**
Booz/Allen/Hamilton

Now that winter is approaching, it's a good time to review ways to save energy (and \$\$) at home during the winter months.

- 1. Lower your thermostat to 68 degrees.** In the winter, set the thermostat between 65 and 70 degrees during the day and to 58 degrees at night or when away from home for several hours. If you have a heat pump, make sure to slowly increase the temperature to avoid running the emergency heat. You can learn more about your thermostat online by visiting the U.S. Department of Energy website at <http://energy.gov/energysaver/articles/thermostats-and-control-systems>
- 2. Seal air leaks.** Seal all holes from pipes and wires that enter or exit the living space. This includes entrances, pull-downs and attic stair openings, light fixtures, pipes and wires. Attic entryways should be weather stripped and insulated.
- 3. Clothes dryer hints.** Clean the lint filter in your dryer before every load to dry your clothes faster. Use the auto sensor function on your dryer to conserve energy by not over-drying your clothes. Also, check the dryer exhaust vent for blockage. Keeping the dryer vent clear is not only a good way to save energy; it is a good idea for safety.

- 4. Seal duct work.** This is the number one way to conserve energy. Make sure that all ductwork is sealed at joints and intersections with duct sealer or silicone caulk. Otherwise, supply ductwork can leak heated air into the attic or crawl space, and outside air can be drawn into the return ductwork, increasing costs and reducing comfort dramatically. Ducts can be sealed using foil-backed tape or silicon caulking.
- 5. Lower water heater to 120-125 degrees.** Many water heaters are automatically set at 140 degrees. Lowering the temperature on your water heater to between 120 and 125 degrees will reduce the amount of fuel needed to heat the water.
- 6. Change furnace filters every month.** This is the number one reason for furnace breakdowns. Inspect heating and cooling equipment annually, or as recommended by the manufacturer. Have a professional check and clean furnaces once a year.
- 7. Weatherstrip doors and windows.** Inspect windows and doors for air leaks. If you can see

daylight around a door or window frame, then the door or window needs sealing. Air leaks can be sealed with caulking or weather-stripping.

- 8. Insulate water pipes coming from the water heater.** Insulate the first 3- to 6-feet of cold and hot water pipes near the water heater. Insulating all hot water pipes is not necessary where pipes are located in a crawl-space or attic.
- 9. Add an insulation blanket to water heater.** Wrapping the water heater with an insulation blanket can save heating money by slowing the drop in temperature from the hot water tank as it sits unused. Inexpensive insulation kits are available at most home improvement stores.
- 10. Add insulation to attic.** The most cost effective insulation typically is in the attic space of the house. Fall, when the attic temperature is lower, is a good time to add insulation if needed. Here are two sites that provide guidance for insulation projects - <http://www.energystar.gov/index>.



[cfm?c=home_sealing.hm_improvement_insulation_table](http://www1.eere.energy.gov/consumer/tips/m/insulation.html) or <http://www1.eere.energy.gov/consumer/tips/m/insulation.html>.

Heat Pump Emergency Heating Explained

It's important to understand how your heat pump and thermostat work to minimize your energy consumption and avoid damaging the unit. The best way to do this is to read and understand your owner's manual. If you do not have a copy, electronic copies for most units are available online. Below is a

general overview on how most heat pump units work to heat your home.

If you have a heat pump, then it's important to understand how the thermostat and heat pump function during heating modes. When you switch your thermostat to heating mode, the heat pump reverses the refrigerant flow so the outside coils get cold and the interior air handler coils get hot so warm air blows into the house. All heat pumps have a supplemental or "emergency" heating system that is activated either automatically or manually. This is typically an electric strip in the air duct downstream of the fan. This electric strip is effective but very inefficient compared to the heat pump. Normally the heat pump,

if functioning correctly, is all that is necessary to heat the house. However, when the thermostat is set on the heat mode, the emergency heating will activate automatically under certain conditions. Generally the emergency heating will turn on if the thermostat setting is approximately 2 degrees (F) above the measured room temperature. This normally occurs when the thermostat is suddenly raised several degrees or the outside temperature is extremely cold (35 deg. F or colder). Most thermostats have a little light that comes on indicating that the emergency heating system is on. If this light is on frequently, it may indicate a problem with the heat pump system unless the outside temperature is extremely cold as mentioned earlier.

When you select the "emergency" mode on the thermostat, this turns off the heat pump and manually turns on the electric heat strip. Since this system is very inefficient, you would only want to do this if you suspect or know there is a problem with the heat pump.

Heat Pump Energy Savings Tip

Leave the thermostat in the normal heat position and gradually raise the temperature setting on your thermostat to avoid turning on the inefficient "emergency" electric heating element. If you suspect a problem with the heat pump, consult your owner's manual or arrange for a technician to inspect your unit.

Special needs families find support from DoD panel

Commentary By **Maj. Nicholas Sabula**
Air Force News Service

FORT GEORGE G. MEADE, Md. (AFNS) - Recently I had the opportunity to serve on a Defense Department advisory panel dealing with special needs issues across the military.

The panel's meeting last month in Alexandria, Va., was the third of its kind conducted by DOD's Office of Community Support for Military Families with Special Needs, or OSN, in the past year to address the Exceptional Family Member Program's family support priorities.

The panel was comprised of family representatives from all services, including active duty and reserves, and addressed communication issues and concerns from military families. The event was chaired by Acting Deputy Assistant Secretary of Defense for Military Community and Family Policy Charles E. Milam.

As the father of three boys, one with autism, I took my role in the process very seriously. In reaching out for input from families through networking, meetings and even an unofficial online survey, I found myself not only serving not only as the Air Force

representative, but also as a joint representative to all our families.

EFMP impacts a lot of families, with enrollment mandatory for active duty families with a special need. As of December, total EFMP service member enrollment was projected at 93,706 with numbers of EFMP family members estimated at 126,153 across services.

The program becomes especially important when planning and making a permanent change of station move. Some families need support before the move to determine if services are available for their particular special needs. Some find that they need family support assistance to navigate the system when they arrive at a new duty station. Contacts must be made with new school staff, to locate medical providers and work with a variety of offices to support providers on or off the installation.

During previous panels, we presented families' frustrations with accessing information and services and confusion about policy since each service implements a slightly different program. Lack of standard-

ization and consistency at different installations were top priorities. The panel listed as its three key areas for improvement consistency of support, communication and health care.

What I found is that much of the work our panel initially identified and advocated for a year ago was taken to heart by leadership and we are seeing results. OSN recently completed the first phase of an analysis aimed at standardizing service support for special needs families across DOD. The analysis used a series of site visits to installation-level, headquarters-level and any centralized locations dealing with personnel, family support and assignment processes. The culminating activity was a review by the services to look at enrollment and identification; assignment coordination; overseas family travel; and family support.

Ultimately, the outcome is to consolidate these processes and make it easier for families to maintain support from location to location. Simple things like common forms, databases talking to each other, more user-friendly websites to help families as they transition from one location to another, accessibility of

information to understand how to obtain care and support from available resources were all presented.

ATRICARE representative spoke about the health care management activity's efforts to improve communication with families and collaboration with OSN, such as simplifying online navigation. The representative discussed TRICARE's Patient Centered Medical Home, which the services are implementing and eventually will address many of the panel's issues related to lack of consistency of medical providers and timely access to specialty care. It places emphasis on personal relationships, team delivery of holistic care, coordination across

medical specialties and settings, and increases access to affordable care.

EFMP representatives from each service's headquarters shared their efforts to improve communication and outreach, as well as awareness on adult-age children or spouses with special needs, respite care and other EFMP initiatives such as joint base support.

I was especially pleased to see that the services are working more closely together to build cohesion across the joint force. It might not sound like much, but as an Air Force family on an Army installation, such cohesion is important and reflects a readiness issue for the military community at large.

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 three ways: via the AEDC intranet home page, Action Line boxes at the base cafeterias 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

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, you cannot smoke 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. In case of inclement or cold weather, employees are encouraged to use their personal vehicles if a sheltered designated smoking area is not available nearby. 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://lpapro.arnold.af.mil/PORTALimages/Smoking area map.pdf](https://lpapro.arnold.af.mil/PORTALimages/Smoking%20area%20map.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.

Regarding use of smokeless tobacco, 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. Smokeless is strictly prohibited in conference room meetings and other areas, e.g. PMEL, where Air Force regulations specifically prohibit.

Due to the nature, appearance, and safety concerns of electronic cigarettes (also known as "e-cigs"), they are considered to be in the same category of tobacco products whose use is governed by Air Force Instruction (AFI) 40-102, Tobacco Use in the Air Force. Therefore, all rules stated above for tobacco products apply to electronic cigarettes.

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 letter supersedes previous letter dated 28 October 2006, subject as above.

AEDC's Space Threat Assessment Testbed team builds a 'microsatellite'

By Philip Lorenz III
ATA Public Affairs

As Arnold Engineering Development Complex's (AEDC) project team recently celebrated Arnold's Space Threat Assessment Testbed's (STAT) successful initial site acceptance test, they also have another good reason to rejoice.

The STAT Facility also comes complete with a fully-instrumented, plug-and-play microsatellite available to use as a test article in the facility during the initial and final checkout for full mission readiness.

Nikki Tracey, AEDC's Air Force STAT program manager, said to put the microsatellite into perspective, it is important to understand what the STAT facility is capable of accomplishing.

"STAT can simulate a realistic space environment to test space hardware, using multiple sources to create what a satellite is often subjected to in the orbits they frequently occupy," she said.

Tracey has been particularly impressed with the team and the effort behind how they obtained and prepared the microsatellite for testing during STAT's continuing workup to complete mission readiness.

"ATA members of the STAT project management team have

built and developed a 'CubeSat' from Pumpkin, Inc.," Tracey said. "It's something many universities use for research and NASA and other space agencies use for both research and space missions due to the microsatellites' size and relatively lower cost."

Marc Smotherman, ATA's task manager for the STAT's chamber data acquisition and control system, said, "One of the requirements for the STAT facility was to install a government-furnished microsatellite in the STAT chamber during final system tests.

"The satellite earmarked for this effort became unavailable. The Air Force approached ATA for a solution. An ATA team composed of John Prebola, Carrie McInturff (ATA's STAT project engineer and lead for the facility's distributed mission operation system) and I developed requirements for the microsatellite."

The main requirements were that all the microsatellite components had flown in space and that the instrumentation be included with the microsatellite so that it could measure certain environmental parameters it would encounter in the STAT chamber.

"Carrie and I developed a software and hardware design for the microsatellite that includes not only the microsatellite design,"



From left, Marc Smotherman, ATA's Space Threat Assessment Testbed (STAT) data acquisition and control system and chamber lead, Carrie McInturff, ATA project engineer on the STAT IOC project, and John Prebola, ATA's STAT technical director, look on as Roger Johnson, an ATA instrument technician, inspects the "microsatellite" he built. Johnson also had help from Ricky Bush, an ATA outside machinist at Arnold Engineering Development Complex's Space and Missile Ground Test complex. (Photo by Rick Goodfriend)

Smotherman said, "but design of ground support systems to monitor the status of the microsatellite in the STAT chamber."

The design drawings for the microsatellite and ground support hardware were given to Roger Johnson, an ATA instrumentation technician expert.

"His job, probably the most difficult of the entire effort, was to mount the various computer and instrument systems in the CubeSat frame and wire all the systems," Smotherman said. "Since this is a 'micro' satellite, Roger had to use

his special skills to fit all the components in the frame and route all cabling to the various components. And, all the while he was developing solutions to protect the various microsatellite components from the harsh environment of space. Roger delivered a flawless system that Carrie and I checked out."

The microsatellite was installed in the STAT chamber in August during the STAT Initial Operating Capability test.

"While being subjected to the harsh environment of the STAT chamber, the microsatellite will

also be transmitting telemetry data to a satellite operations center, as it would during a real space flight," Smotherman said.

Johnson, who has been with AEDC since 1973, said building and wiring the satellite was a new experience – it was literally the first time he had ever tackled anything like it during his career.

"It was a challenge and I'm glad that I could offer my talents and that it worked out, but I'm not the only one here at AEDC who has these skills," he said. "It felt good to have been a part of this."

AEDC's STEM Center opens for young engineers and scientists

By Raquel March
ATA Public Affairs

Arnold Engineering Development Complex's (AEDC) Science, Technology, Engineering and Mathematics (STEM) Center coordinator, Jere Matty and volunteers officially opened the complex's hands-on STEM Center Oct. 27 with a ribbon cutting ceremony.

Volunteers have given their time to make sure the center's doors would open this fall.

"I'm thrilled and proud of all the work from Col. Heather Buono's civil engineering team, graphics and our small army of volunteers who put it all together," Matty said.

The center has provided activities to several schools before the ribbon cutting.

Two student groups have used the Fox's Den, named after the STEM center's mascot, a fox who runs around Arnold Village.

The center is designed to provide an exciting and interactive learning environment for students in kindergarten through 12th grade, while developing student interest in STEM careers.

Schools may request a date to visit the center and hands-on activities are matched with a school's curriculum. Hands-on activities may also be conducted at the school.

In order to accommodate a

school's request, AEDC scientists, engineers and other professional volunteers are available to assist.

"Our volunteers are the heart and soul of this program," Matty said. "For example, Bruce Buono, a retired Air Force colonel and currently a substitute teacher, not only helps coach a Lego League team, but set up the software on our flight simulator.

"Richard Kirkpatrick (an AEDC engineer) and his wife, Sarah, put together the entire Green City Challenge for our Lego MindStorms demonstration in the Fox's Den.

In addition, Harry Clark, an AEDC DOD employee, volunteered his time and trailer to deliver seven very large Lego League tables to each of our sponsored teams and the STEM Center."

Matty said they currently sponsor and lend supplies to six FIRST Lego League teams, two Jr. Lego League Teams and a Cyber Patriot Team.

The Lego League program is a partnership between FIRST (For Inspiration and Recognition of Science and Technology) and the Lego Group who created a program that helps young people discover the fun in science and technology while building a robot.

The Cyber Patriot program is a national high school cyber



Col. Raymond Toth (third from left), AEDC commander, cuts the ribbon to officially open the AEDC STEM center Oct. 27. Attendees were able to see the hands-on demonstrations the center offers. (Photo by Jackie Cowan)

defense competition created to inspire high school students toward careers in cybersecurity.

Attendees at the ribbon cutting were able to see the STEM center's flight simulator due to the work of two AEDC volunteers.

"Thanks to Chris Davis and Marcus Golden who put together the hardware, we're improving its (flight simulator) capability even now," Matty said.

To reach more students in the

local community, the STEM center can loan ARIES demonstration kits to teachers. The kits are designed to teach students about motion and forces.

Through the STEM Center, AEDC employees and local teachers were able to learn how to use the kits.

"Each kit contains a teacher's manual and enough manuals and materials for 30 students to complete an extensive array of

hands-on dynamics demonstrations," explained Matty. "We spent a day at the Challenger STEM Center in Chattanooga learning how to use this kit and we now have them checked out to four different schools."

For more information on scheduling a visit to AEDC's STEM Center or to schedule a STEM visit from AEDC to an organization, go to www.arnold.af.mil/stem.

Ballistic Missile Defense System Engages Five Targets Simultaneously making History

Fort Belvoir, VA (MDA U.S. Department of Defense) - The Missile Defense Agency (MDA), U.S. Army soldiers from the 94th and 32nd Army Air and Missile Defense Command (AAMDC); U.S. Navy sailors aboard the USS FITZGERALD (DDG 62); and airmen from the 613th Air and Space Operations Center successfully conducted the largest, most complex missile defense flight test ever attempted resulting in the simultaneous engagement of five ballistic missile and cruise missile targets.

An integrated air and ballistic missile defense architecture used multiple sensors and missile defense systems to engage multiple targets at the same time. All targets were successfully launched

and initial indications are that the Terminal High Altitude Area Defense (THAAD) system successfully intercepted its first Medium Range Ballistic target in history, and PATRIOT Advanced Capability-3 (PAC-3) near simultaneously destroyed a Short Range Ballistic Missile and a low flying cruise missile target over water.

The live-fire demonstration, conducted at U.S. Army Kwajalein Atoll/Reagan Test Site, Hickam AFB, and surrounding areas in the western Pacific, stressed the performance of the Aegis Ballistic Missile Defense (BMD), THAAD, and PATRIOT weapon systems.

An Extended Long Range Air Launch Target (E-LRALT) missile was airdropped over the broad

ocean area north of Wake Island from a U.S. Air Force C-17 aircraft, staged from Joint Base Pearl Harbor-Hickam, Hawaii. The AN/TPY-2 X-band radar, located with the THAAD system on Meck Island, tracked the E-LRALT and a THAAD interceptor successfully intercepted the Medium-Range Ballistic Missile. THAAD was operated by Soldiers from the 32nd AAMDC.

Another short-range ballistic missile was launched from a mobile launch platform located in the broad ocean area northeast of Kwajalein Atoll. The PATRIOT system, manned by soldiers of the 94th AAMDC, detected, tracked and successfully intercepted the target with a PAC-3 interceptor.

The USS FITZGERALD suc-

cessfully engaged a low flying cruise missile over water. The Aegis system also tracked and launched an SM-3 Block 1A interceptor against a Short-Range Ballistic Missile. However, despite indication of a nominal flight of the SM-3 Block 1A interceptor, there was no indication of an intercept of the SRBM.

FTI-01 was a combined developmental and operational test. Soldiers, Sailors, and Airmen from multiple Combatant Commands operated the systems and were provided a unique opportunity to refine operational doctrine and tactics. Program officials continue to assess and evaluate system performance based upon telemetry and other data obtained during the test.

Do your part – Please recycle this paper after reading!

Ultimate wingman helps save friend's life

SCOTT AIR FORCE BASE, III. (AFNS) - (This feature is part of the "Through Airmen's Eyes" series on AF.mil. These stories focus on a single Airman, highlighting their Air Force story.)

An Airman here who noticed the suicidal signs of a friend reported the problem and helped save his friend's life.

Airman 1st Class Albert Chang, 375th Comptroller Squadron, not only got his friend and fellow service member the help he needed, but also served as a wingman to actively be involved with his friend's life when he started noticing his friend's unusual behavior.

"We first met in the courtyard back in the dorms," said Chang. "We became good friends within the first year of knowing one another."

When they met, that Airman was always known to be the comedian of the group.

"He was always making the most absurd, obnoxious jokes," Chang said. "It always caught you off-guard, and always made you laugh."

In May 2012, the Airman was notified that he would face an administrative discharge because of the Date of Service rollback.

"When he first broke the news to me, he was pretty nonchalant about it," Chang said. "He seemed as though he was alright with it. He was talking about how he had jobs back home and how everything would be fine, but he had a lot on his plate."

Chang helped him prepare for his move out of the Air Force as much as possible, as well as being there for him as a friend.

"One night I was helping him clean, it was just the two of us, and he just broke down and started crying," Chang said. "I'd never seen him like that."

"He was always smiling and making jokes. I didn't know what else to do, I just hugged him," he continued. "That calmed him down a little bit."

Showing the distraught Airman that someone cared enabled him to open up and allowed Chang to see what was really on his mind.

"He told me that his parents actually kicked him out of their house; he joined the Air Force because of it," he said. "He kept reiterating how disappointed his parents were going to be. That's when I first noticed that this was actually a big deal to him."

After seeing what his friend was going through, Chang decided to dedicate more of his time for his well-being.

"The more time I spent with him, the more I noticed," he said. "He would crack a joke every once in a while, but I definitely noticed a change in his demeanor. He became quieter, and when he did talk it was very under-spoken."

"A couple of days had passed; we were hanging out in a friend's room," Chang continued. "I'm not sure if anyone else heard it, but he said 'God, I just want it to end. I just want it all to end.'"

"I've never encountered anything like this before, so realistically I didn't know the signs," he said.

Feeling that his friend's condition was getting worse, Chang decided to take his efforts even further.

"During his last week, he didn't have to go into work, so when I went on my break I would take him out to lunch and just talk with him. As small as that seems, I feel that it helped," he said. "The more time I spent with him, the more I tried to prepare myself, but I didn't know what to do. I could just talk to him, but I felt that that was inappropriate with his separation right around the corner."

The closer the separation date came, the more and more signs followed. Chang realized he couldn't just stand by much longer.

Two days before his friend was supposed to leave, Chang went to the



Airman 1st Class Albert Chang, 375th Comptroller Squadron, noticed the suicidal signs of a friend and reported the problem, helping save his friend's life. He not only got his friend and fellow service member the help he needed, but also served as a wingman to actively be involved in his friend's life when he started noticing his friend's unusual behavior. (U.S. Air Force photo/Staff Sgt. Ryan Crane)

Airman's dorm and found all of his things outside his room. Throughout the day, the unstable Airman had been giving his stuff away.

"At this point it had become blatantly obvious that I had to do something," he said. "I have been through suicide awareness training and these were the signs that we needed to look out for. It was just crazy that it was happening in real life."

"He said he just didn't care anymore," Chang continued. "The trigger for me was when he said he couldn't sleep anymore, because he stayed up thinking about how he just wanted everything to end. We went out to the courtyard with two other friends; I asked them to keep an eye on him for a second."

Chang then left to call his first sergeant after he overcame the fear of what his actions could do.

"I was a bit worried to be honest, because of the negative stigma of calling the authorities on a friend," he said. "I'm sure that's a big barrier in a lot of people have, so I was a bit hesitant at first."

Approximately five minutes after the call, the



David Beale, an ATA Technology and Analysis Branch program manager at AEDC, instructs participants at a recent Aeropropulsion Test and Evaluation Short Course on Airflow Measurement. (Photo by Rick Goodfriend)

AEDC offers a test and evaluation course

By Raquel March
ATA Public Affairs

Participants from various military bases and industry attended the fifth Aeropropulsion Test and Evaluation Short Course last week at Arnold Engineering Development Complex.

The course, offered by Arnold's Air Breathing Engine Test division, was developed to provide AEDC's external customers with an overview of turbine engine ground test and evaluation fundamentals and technical elements.

A mix of classroom training and work site visits offered participants an understanding of AEDC's role in developing, sustaining and improving their weapon systems.

Nicholas Henson, a project manager with AEDC's Test Systems Acquisition Branch and short course participant, said the most beneficial part of the course was the fundamentals section and tours.

"Not having a ground

Airman's first sergeant and security forces arrived to take care of him.

"That was the last I saw of him for two days," he said. "I don't know why, but I felt bad. I felt guilty that he had to be watched because of me."

"I was walking out of the Shoppette when I saw him walk in with his supervisor," he added. "The very second I saw his

test background, it relayed an understanding of the keywords and buzz-words along with a practical application through the tours," Henson said. "The class also included students who were maintainers, customers and future customers from across Air Force Materiel Command. This classroom diversity allowed me to see different perspectives of the importance of ground test."

Since the inception of the course, participants have included component

improvement engineers and program managers, Navy and Army testers, Air Force Research Laboratory engineers and the Air Force Life Cycle Management Center Propulsion Acquisition division and Sustainment division.

Presently the course is offered every quarter and consists of approximately 25 participants.

The next course is scheduled for Feb. 26-28. For more course information call (931) 454-6272.



Participants from Wright-Patterson Air Force Base, Edwards Air Force Base and Pax River Naval Air Station listen to a lecture during a recent Aeropropulsion Test and Evaluation Short Course at Arnold Engineering Development Complex. (Photo by Rick Goodfriend)

face, I thought he was going to be mad, but when he saw me he got this big smile on his face. Then he came up to me and gave me a really tight hug. I'll never forget what he said to me. He said, 'Thank you. I was in a really dark place in my life.' I didn't know what to say to that."

Chang and his friend still keep in contact even though he is no longer in

the military.

"I don't feel like I did anything special," he said. "I feel like if I was the guy exhibiting suicidal tendencies, someone would help me. I was just helping a friend."

"It doesn't take much to help someone out," Chang added. "Even the smallest action could save a life, but you will never know unless you try."

U.K. F-35 fleet increases capability at Eglin AFB

EGLIN AIR FORCE BASE, Fla. (AFNS) - A second British F-35B Lightning II arrived here Oct. 19, joining the nine A variants of the joint strike fighter flown by the Air Force and the 13 B variants flown by the Marine Corps to become the largest fleet of F-35s in the world.

The first class of United Kingdom Royal Air Force and Royal Navy aircraft maintainers attending courses at the F-35 Academic Training Center met the jet flown by U.K. Royal Air Force Sq. Ldr. Jim Schofield.

"It's another exciting day for the United King-

dom and the 33rd Fighter Wing as we build up the F-35 force. The two U.K. jets now will become the backbone of test and evaluation at Edwards [Air Force Base] and we will be adding a third next year," said Sq. Ldr. Jim Schofield. "It was great to see the first course of U.K. maintainers as I arrived to the VMFAT-501."

Service members from the Navy, Air Force and Marine Corps as well as coalition partners from foreign nations, such as the U.K., learn how to operate and maintain the F-35 through a digital training environment. This kinetic learning system allows the

learning to occur through touching and doing, rather than seeing and hearing.

The U.K. aircraft are imbedded in the Marine Fighter Attack Training Squadron 501, and are used by both countries to conduct F-35 training. The arrival of the jet increases the capability for pilot and maintenance training.

"The fact that we're starting with the same airframe, same formations, same weapons capabilities, I think that already puts us at a better starting point when we show up to a combat theater together," said Lt. Col. Lee Kloos, squadron commander for the 58th Fighter Squadron,

of the integration of forces with the F-35.

Later this month, an RAF and RN pilot will begin instructor pilot training, making them the first international pilots trained at Eglin on the fifth-generation, multi-role fighter.

The F-35 Lightning II Joint Strike Fighter program started in 1997. The program includes plans to replace the Air Force's aging F-16 Fighting Falcon and A-10 Thunderbolt II, the Marine Corps' short takeoff, vertical landing AV-8B Harrier and dog-fighting and air-to-ground attacking F/A-18 Hornet and the Navy's stock of legacy Hornets



United Kingdom Royal Air Force and Royal Navy aircraft maintainers met the U.K.'s second F-35B Lightning II as it arrived to Eglin Air Force Base, Fla., Oct. 19, 2012. These maintainers are part of the first class of U.K. maintainers attending courses at the F-35 Academic Training Center here. The U.K. maintenance training began Oct. 1. (U.S. Air Force photo/Maj. Karen Roganov)

Employee and Community Activities Committee elects new officers

By Raquel March
ATA Public Affairs

The Aerospace Testing Alliance's (ATA) Employee & Community Activities Committee (ECAC) is prepared to support its workforce with newly elected officers for 2013.

The committee, which consists of 18 members, provides a means for ATA personnel to demonstrate an interest and concern for the general welfare of all ATA employees and the surrounding communities.

The new officers are: Cindi Marshall, president; Christy Brunner, vice president; Patricia Reynolds, secretary; and Shewanda McCord, treasurer.

Committee Chairpersons include: Chris Bird, Angel Tree committee; Janet Feller, Angel Tree committee; Ted Boswell, Athletic committee; Phyllis Lafferty, Social commit-

tee; Becky Combs, Civic committee; and Darrell Townsend, Education committee.

The members are nominated and elected by their peers from Tulsa, Oklahoma, Manchester and Winchester areas. These three general areas support multiple areas to include Bedford, Cannon, Coffee, Franklin, Grundy, Lincoln, Moore, Rutherford and Warren counties.

The committee establishes subcommittees to coordinate activities and requests received in the categories of social, civic, athletic, education and the Angel Tree program.

The subcommittee chairpersons are primarily responsible for evaluating donation or activity requests and presenting the information to the committee at monthly meetings.

Each member agrees to serve a three-year term.



Newly elected officers of ATA's Employee and Community Activities Committee (ECAC) are (from left to right, front row): Shewanda McCord, treasurer; Patricia Reynolds, secretary; Christy Brunner, vice president; and Cindi Marshall, president. Committee chairpersons are (from left to right, back row): Chris Bird, Angel Tree committee; Ted Boswell, Athletic committee; Phyllis Lafferty, Social committee; and Janet Feller, Angel Tree committee. (Photo by Jackie Cowan)

AFMC to transition to new energy efficient power strips

By Brian Brackens
Air Force Materiel Command Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio - In an effort to reduce its energy consumption, and save \$5.4 million over 10 years, Air Force Materiel Command recently began distributing new energy efficient power strips for electronic devices located in workstations throughout the command.

AFMC will distribute more than 77,000 of the new strips, which are designed to use significantly fewer kilowatt-hours than traditional power strips, as they "power down" electronic devices when not in use.

Col. Douglas Wise,

chief of the Civil Engineer Operations and Readiness Division, Installations and Mission Support, said that smart strips will save energy and cut costs.

"Across the command, AFMC will reduce energy usage by an estimated 8 million kilowatt-hours annually, saving an estimated \$540,000 per year," he said. "This initiative will also raise awareness of energy conservation, as we work to promote a culture of energy efficiency throughout the command."

Lt. Gen. Andrew Busch, AFMC vice commander, said that making good energy decisions will continue to be a priority for

the command.

"AFMC has been a leader in energy conservation and efficiency," he said. "From testing and developing synthetic fuels to winning international awards for waste reduction management - finding ways to be more 'green' and reduce energy expenditures by using technology like the smart strip will continue to be our priority."

The Air Force - including AFMC - observed Energy Action Month in October, highlighting the Air Force's significant role in the nation's strategy to establish greater energy security and become more energy efficient through conservation and use of alternative energy sources.

Do your part . . . Recycle

Programs modernize ICBMs for Life Extension

BARKSDALE AFB, La. (AFNS) - Fifty years ago, officials deployed the first Minuteman III Intercontinental Ballistic Missiles to the missile fields in support of the strategic deterrence mission. Five decades later, these missiles are still in place, providing safe, secure and effective strategic nuclear deterrence.

Since it first deployed, a number of state-of-the-art improvements and modernization programs have helped the Minuteman system continue its deterrence mission with improved reliability that supports the missile's remarkable 99 percent alert rate. Air Force Global Strike Command officials continue to modernize the weapon system through a series of extensive Minuteman III Life Extension Programs.

Nearly the entire missile has been refurbished,

including the flight controls and propellant in all three stages, the guidance system and the Propulsion System Rocket Engine.

"We are checking and balancing everything, but they are basically new missiles except for the shell," said Michael Knipp, ICBM program analyst. "Over the last decade we've done more than \$7 billion worth of upgrades to 450 missiles."

In addition to the missile itself, a number of upgrades to the Minuteman III ground systems have been made. Those include upgrade to various electronic, cryptographic and security systems, Knipp said.

The last of the Life Extension Programs that will take the platform through the year 2020 are scheduled to be completed in 2015.



Senior Airman Derek Baker uses a hand-held controller to lower the 341st Missile Wing's 150th Minuteman III solid-propellant replacement booster into launch facility Echo-08 Aug. 18, 2009. Airman Baker is a 341st Missile Maintenance Squadron missile handling team technician. The Propulsion Replacement Program, or PRP, extends the service life of the missile through 2020. The first MMIII replacement booster was delivered in April 2001. (U.S. Air Force photo/Staff Sgt. Eydie Sakura)

F-35A first JDAM release

EDWARDS AIR FORCE BASE, Calif. (AFNS) - An F-35A conventional takeoff and landing (CTOL) aircraft completed the first in-flight weapons release of a 2,000 pound GBU-31 BLU-109 Joint Direct Attack Munition (JDAM) from a 5th Generation fighter, Oct. 16.

The flight was conducted by U.S. Air Force Maj. Eric "Doc" Schultz. The aircraft, known as AF-1, jettisoned an instrumented GBU-31 over the China Lake test range from the left internal weapons bay.

The F-35A 5th Generation fighter is designed to carry a payload of up to 18,000 pounds using 10 weapon stations. The F-35A features four internal weapon stations located in two weapon bays to maximize stealth capability. The CTOL aircraft can also utilize an additional three external weapon stations per wing if required.

AEDC hosts annual Combined Federal Campaign charity fair

By Philip Lorenz III
ATA Public Affairs

On Oct. 26, Arnold Engineering Development Complex's (AEDC) federal employees attending the annual Combined Federal Campaign (CFC) charity fair had an opportunity to learn more about the campaign's mission and the associated organizations' commitment to address that need.

The mission of the CFC is to promote and support philanthropy through a program that is employee focused, cost-efficient and effective in providing all federal employees the opportunity to improve the quality of life for all.

The charities supported through the CFC focus on people who need help,

including the hungry, the homeless, the sick, the disabled, children and families in need, and the environment.

One of the federal employees attending the charity fair, AEDC Contracting Officer Robert Greene, asked Troop Aid representative Mark Wood about the future of that organization.

Wood explained to Greene that the ambition of Troop Aid is to expand to educate and connect U.S. troops and their families to bring multiple agencies at the community, state and national level together under an "umbrella" as a one-stop support agency.

Greene said the CFC fair provides a more in-depth picture of what a support agency has to offer, its current mission, future goals

and differences that make it stand out from other CFC agencies.

AEDC's collective goal is \$57,000 and the campaign will conclude Nov. 9. AEDC CFC Chair Donna Paredez and CFC Deputy Chair Sara Rozell suggested searching for applicable charities and pledging online at https://www.cfc-nexus.org/_tregionalcfc/.

For additional information on this year's CFC drive, call Paredez at 931-454-6279 or Rozell at 931-454-3183.

In November, AEDC support contractor, Aerospace Testing Alliance (ATA) officials will announce how ATA employees can make payroll deductions through the contractor's program for charitable organizations.

PROJECT from page 1



Members of Franklin County High School's Carpentry Class stand behind one of the tables they built for Lego League Competition. (Photo by Jackie Cowan)

students why the work they do is so important.

"This project highlights the link between vocational work and science, technology, engineering and math," he said. "Engineers and scientists can have a great idea, but it takes skilled craftsmen like carpenters, machinists and pipefitters, for example, to turn the idea into reality. These groups must work together, and we need both at AEDC."

DJ Duehmig, one of the students in the class

and the only female in the group, said she did a lot of sanding on these tables.

"Most of our projects are for other classes at the school," she said. "We don't get many outside projects and we were really glad we were able to help the Air Force Base. I liked the final product and it was nice to see how our tables would be used."

Duehmig wants to be a civil engineer, but when one of the classes she wanted was filled, her brother suggested carpentry.

She said he told her it would be beneficial for a civil engineer to understand how to build things.

After congratulating the students, the commander presented each of them with a special coin, a military tradition, representing a job well done.

The Lego League tables will be used by seven area teams sponsored by AEDC or its prime contractor, Aerospace Testing Alliance (ATA). ATA made a \$500 donation to the FCHS class for its work on the project.



Juvenile Diabetes Research Foundation (JDRF) representative Cathy Manis talks to Navy Cmdr. Brian Allen, Arnold Engineering Development Complex (AEDC) Test Division chief, at the recent annual Combined Federal Campaign (CFC) fair held in the lobby of the A&E Building at AEDC. (Photo by Jacqueline Cowan)

C-5M from page 1



Jim Crawford, an outside machinist with the Aerospace Testing Alliance (ATA) Flight Systems Operation and Maintenance branch, inspects a winglet on the wingtip of the C-5M Super Galaxy model during a break in testing in Arnold Engineering Development Complex's (AEDC) 16-foot Transonic Wind Tunnel (16T). The model is a pink color as a result of AEDC's Marvin Sellers and Crawford's application of Pressure Sensitive Paint (PSP) to it before that portion of the test was conducted. (Photo by Rick Goodfriend)

Better Together: C-5M Joint Flight a Success

MARIETTA, Ga. – The first C-5M Super Galaxy production joint acceptance flight with Lockheed Martin and the Defense Contract Management Agency (DCMA) occurred Oct. 17, here at the Lockheed Martin facilities.

The joint aircrew included: (from left) Tech. Sgt. Jeremy Huff, Flight Engineer, Lt. Col. Robert Griffith, Aircraft Commander, Master Sgt. Garrad Mitchell, Flight Engineer, Lockheed Martin pilot, Butch Johnson, LM Flight Engineer Larry Frias

and LM Flight Engineer John Linville.

"Today marks a significant milestone for our C-5 family. While this may sound simple, this took many hours of coordination and planning from many in the C-5 enterprise," said Greg Ulmer, vice president of the C-5 program. "This is just one step of many we are implementing to increase the rate of C-5M deliveries to our warfighters."

Joint acceptance flights are expected to reduce total delivery time by two to four

weeks. C-5M flight acceptance is the final phase of the process to deliver the aircraft back to the Air Force.

Headquartered in Bethesda, Md., Lockheed Martin is a global security and aerospace company that employs about 120,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. The corporation's net sales for 2011 were \$46.5 billion.

27th Annual
Arnold Air Force Base
2012



Turkey Trot
November 15, 2012 5K Run/1.5M Walk

THURSDAY, NOVEMBER 15TH
2:30 PM, IN FRONT
OF THE A&E BUILDING

Official Short Sleeve

"Turkey Trot" T-shirts available for \$10!

Must pre-order on or before 8 Nov!

The shirt will be white with the Turkey Trot logo on the front

2012 proceeds will benefit
Operation Stand Down of Nashville

Registration at the A&E Cafeteria
and Bldg 1103 Lobby

November 7-9 from 11 a.m. – 1 p.m.

Turkey Trot Representatives:

2d Lt Sam Stephens x4351, 2d Lt Ben Hoff x6273,

2d Lt Will Edge x4244, 2d Lt Matthew Karczewski x5533,

2d Lt Chance Johnson x5787, 1st Lt CharMeeka Scroggins x6095

MY STRENGTH IS FOR DEFENDING

AEDC Victim Advocates Hotline:

(931) 581-7494

Preventing Sexual Assault is part of our duty

Visit: MyDuty.mil



READINESS
RESPECT

ATA
Aerospace Testing Alliance
Profile

Intern at-a-glance



Mike Spitnale 

University: *University of Kentucky*

Major: *Chemical Engineering*

ATA Organization: *Computational Simulation, Modeling and Analysis Section*

Hometown: *Lexington, Kentucky*

Outlook: *"The overwhelming pride and interest people have in their jobs here at AEDC makes coming to work every day very enjoyable."*



Mating season puts deer on the move and deer tend to move at dawn and dusk. The Department of Safety and Homeland Security and the Tennessee Wildlife Resources Agency suggest the following tips to help prevent deer-related crashes during peak mating and hunting seasons:

- Exercise caution, slow down, and stay alert in areas where deer are populated.
- Whenever you see deer cross the road, expect more to follow. Often the second or third deer crossing is the one motorists hit.
- Be attentive; drive defensively, constantly scan the roadside, especially at daybreak and dusk.
- Do not swerve to avoid a deer. This could cause the vehicle to flip or veer into oncoming traffic, causing a more serious crash.
- Avoid swerving or blowing the horn. It can confuse deer as to where to run; so can deer whistles.
- When you spot a deer, slow down immediately. Proceed slowly until you pass that point.

AEDC quarterly award winners announced



Capt. Allyson Benko
Company Grade Officer

Benko was recognized for effective leadership of 12 projects, executing the Space and Missiles Test Division seven-foot vacuum chamber upgrade and program management.



Master Sgt. George Allen
Senior Non-commissioned Officer-in-Charge

Allen was recognized for exceptional leadership in audits, real-property inventory, the fuel source program and compliance of performance contract requirement regulations.



2nd Lt. Joshua Coughenour
Honor Guard Member

Coughenour was recognized for serving flawlessly for a retirement ceremony, the Tops in Blue concert, the POW/MIA ceremony and a veteran's funeral.



Tyler Herod
Civilian of the Quarter
Clerical/Technical Support

Herod is recognized for her professional performance and excellent customer service in the Personnel Division office, the Test System Sustainment Division and the Test System Acquisition Branch.



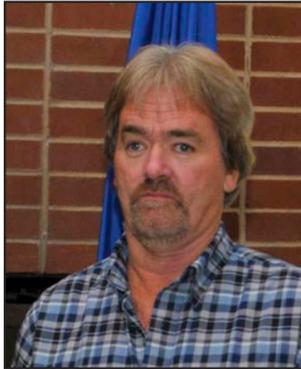
Kristi Deaton
Civilian of the Quarter
Administrative

Deaton is recognized for her exceptional leadership and performance in coordinating critical budget reports, financial systems and processes in the Financial Management Division.



Ruel Burns
Civilian of the Quarter
Scientist/Engineer

Burns is recognized for his outstanding management and flawless execution of the Hazardous Materials Management and Hazardous Waste Management programs.



Tony Martin
Services Employee of the Quarter, Category I

Martin, an automotive worker, was recognized for exceptional maintenance of the Arnold Golf Course and the equipment.



Angela Swain
Services Employee of the Quarter, Category II

Swain, a lodging operations assistant, was recognized for outstanding customer service and accuracy displayed in presenting reports.

Gammon wins People's Choice Award

Janet Gammon, an ATA Project Administrator in the Propulsion Wind Tunnel Test Division, is the recipient of the William M. Dunne People's Choice award.

Gammon was recognized for her outstanding performance and support of the von Karman Wind Tunnels A, B, and C and the Propulsion Wind Tunnel's four-foot wind tunnel modernization programs.

She supports 12 projects in the complex assisting project managers with monthly status compilation, scheduling and project information.

Gammon's desire to serve and make AEDC better for customers



Gammon

and the workforce are evidenced in her daily work ethic for accuracy.

Her focus on good communications with the program manager, project managers and customers ensures that everyone is up to date on all information which keeps projects moving forward.

Milestones



Green

40 YEARS

Carolyn Hill, ATA
Ronald Green, ATA

35 YEARS

Cynthia Northcutt, ATA

30 YEARS

Christopher Lundquist, ATA

25 YEARS

Charles Bailey, ATA

20 YEARS

William Brooks, AF



Northcutt

Thomas Wiley, ATA
Jeffrey Grant, ATA

15 YEARS

Richard Smith, ATA
William Betz, ATA

10 YEARS

Robert Williams, ATA
Jacqueline Harding, ATA
Gregory Sterling, ATA
Matthew Stiggins, ATA
Bradley Pearson, ATA

5 YEARS

Larry Hackett, ATA

Joshua Webb, ATA
Aaron Adams, ATA
Justin Gilliam, ATA
Jason Layne, ATA
Glen Smith, ATA
Jamey Morris, ATA
Mason Counts, ATA
James Montgomery, ATA
Wesley Steelman, ATA

INBOUND MILITARY
2Lt David Stebbins, AF

RETIREMENTS

Charlene Williams, AF
Bill Wendle, AF
Dhruvi Upender, AF
Kenneth Raatz, ATA
Edgar Wantland, ATA

NEW HIRES

Alex Freehardt, AF
Geneva Hurley, AF
Brandon Hoffman, AF
Brad Walker, AF
Billy Miles, Jr., ATA

PROMOTIONS

Dennis Flatt, ATA
Clarence Rogers, ATA

Turn Your clocks back 1 hour before bed Nov. 3



ATA quarterly award winners

Team Member of the Quarter

The ATA Team Member of the Quarter is Ken Clark.

Clark, an engineer in the Engine Test Facility plant operations, was recognized for ensuring test systems are ready for AEDC missions.

He displayed urgency in developing an aggressive repair plan to motors that supply air for the Turbine Engine Dry Air Capability modification completion and to a turbine engine customer's milestone project.

Clark worked with an outside vendor to develop the repair that reduced technical risk and time.

The wooden motor provided the vendor a test model before working on the AEDC motor.



Clark

Craft Team Member of the Quarter

The ATA Craft Team Member of the Quarter is Christopher Garner.

Garner, an instrument technician in the Precision Measurement Equipment Laboratory, was recognized for demonstrating outstanding abilities in quickly learning and mastering all aspects of his duties and responsibilities.

His expertise was recently demonstrated when a quality non-conformity was identified for a gas detector.

Garner led the effort to identify the cause of the non-conformity and took corrective actions to ensure the safety, reliability and accuracy of all gas detectors.



Garner



Larry J. Oakes
Team Member
Test Assets and Support

Oakes, a quality assurance evaluator, was recognized for efficiency in performing his responsibilities in metrology and maintaining environmental data control and collection.



Jason Layne
Team Member
Mission Support

Layne, a canine patrol officer, was recognized for outstanding protection services of AEDC property, personnel and transients.



Scott Grigsby
Team Member
Integrated Test and Evaluation

Grigsby, a test engineering maintenance manager, was recognized for outstanding project management of the turbine engine test cells maintenance projects.



Adam Plondke
Team Member
Integrated Test and Evaluation

Plondke, a project engineer, was recognized for exceptional initiative and professionalism during a store separation test.



Chris Bidmead
Team Member
Performance Management

Bidmead, a safety and health professional, was recognized for exceptional initiative and strategic outlook in helping AEDC maintain and establish critical test capabilities.



Kevin Pickett
Craft Team Member
Test Assets and Support

Pickett, an electrician, was recognized for his exemplary support in ensuring the Engine Test Facility electrical systems and equipment are ready for the AEDC mission.



Dwane Kimmel
Craft Team Member
Mission Support

Kimmel, a fire protection crew chief, was recognized for outstanding duty performance, safety focus, crew leadership and dedication to the fire department mission.



Anthony Lowhorn
Craft Team Member
Integrated Test and Evaluation

Lowhorn, an operating engineer, was recognized for exceptional work performance and professionalism acknowledged by a test customer's program management.



Don Rotach
Craft Team Member
Integrated Test and Evaluation

Rotach, an instrumentation technician, was recognized for his problem-solving capabilities and meeting all customer objectives.



Zeldra Jefferson
Customer Service – Internal
Information Technology and
Systems

Jefferson, a computer system analyst, was recognized for outstanding leadership and guidance provided to her customers during required system changes.



David Yoder
Customer Service – External
Integrated Test & Evaluation

Yoder, a project engineer, was recognized for his planning and execution of a wind tunnel test.



Mike Scott
Customer Service – Internal
Integrated Test and Evaluation

Scott, a project engineer, was recognized for his outstanding contributions and technical expertise in initial operation of a test facility.

Photos were unavailable for the ATA award winners listed below.

JonPaul Wallace
Team Member
Project and Design Engineering

Wallace, a project manager, was recognized for his exemplary work ethic and attention to detail in the successful completion of a facility power upgrade.

Betsy Estabrooks
Team Member
Mission Support

Estabrooks, a civil engineering interior designer, was recognized for extraordinary leadership, support and scheduling for 12 design projects.

Tom Worley
Team Member
Information Technology and
Systems

Worley, an engineer, was recognized for exceeding customer expectations and providing a cohesive, critical balance system to be executed for a data acquisition system.

Rick Checchin

**Craft Team Member
Mission Support**

Checchin, a utility operator, was recognized for his attention to details and improvements that resulted in lower maintenance costs and disruption of service.

Stan Richardson
Customer Service – External
Information Technology and
Systems

Richardson, an instrument engineer, was recognized for providing high quality results for AEDC and the test customer.

Congratulations!



Arnold Golf Course 454-GOLF, 454-FOOD

Check us out on Facebook! Arnold AFB Services Golf Course

Tuesday/ Thursday Special: \$10 green fee for unlimited golf. Cart fee not included.

Mulligan's Coffee Bar & Grill is open 10:30 a.m. to 2 p.m., Monday through Friday and 8 a.m. to 2 p.m., Saturday and Sunday. Call ahead orders for dine in or carry out, 454-FOOD (3663).

Sausage and biscuits available in the Pro Shop Monday through Friday. If you have an early golf outing during the week, grab a quick breakfast before you start. These sausage and biscuits are from the Mulligan's Coffee Bar & Grill menu, prepared in advance, and placed in the warmer in the Pro Shop for your convenience. The biscuits are \$2 each and coffee is also available. The grill opens at 10:30 a.m. during the week and serves a full breakfast on Saturday and Sunday starting at 8 a.m. The Pro Shop will have the sausage and biscuits available starting at 7 a.m., Monday through Friday, but limited quantities will be available so get them while they last.

Arnold Lakeside Center 454-3350

Check us out on Facebook! Arnold AFB Services Arnold Lakeside Center and Arnold AFB Services Information, Tickets and Travel

First Friday Jam will be Nov. 2, beginning at 6 p.m. Come to play, listen, dance and enjoy. Join in with the band to play an instrument or sing. Or take over and do your own performance.

Friday dining room specials, 5-9 p.m.:

Nov. 2: Shrimp Alfredo, \$9.95 member, \$11.95 non.

Nov. 9: Prime Rib for Two, \$29.95 member, \$31.95 non.

Nov. 16: Chicken Fried Steak, \$9.95 member, \$11.95 non.

Nov. 23: Closed

Nov. 30: Spaghetti & Meatballs, \$7.95 member, \$9.95 non.

Specials are subject to change so please call ahead for reservations and to ensure availability.

November Movie Schedule

Movie nights are Thursdays with movie start time of 6:30 p.m. and dinner available from 5-8 p.m.

Nov. 8 – "The Dark Knight Rises," rated PG-13 (2 hr. 5 min.) starring Christian Bale, Tom Hardy and Anne Hathaway. Eight years have gone by and a new terrorist leader, Bane, overwhelms Gotham's finest, and the Dark Knight resurfaces to protect a city that has branded him an enemy.

Nov. 15 – "Diary of a Wimpy Kid: Dog Days," rated PG (1 hr. 34 min.) starring Zachary Gordon, Robert Capron and Devon Bostick. During his summer vacation Greg hatches a plan to pretend he has a job at a ritzy country club - which fails to keep him away from the season's dog days, including embarrassing mishaps at a public pool and a camping trip that goes

horribly wrong.

Nov. 29 – "The Bourne Legacy," rated PG-13 (2 hr. 15 min.) starring Jeremy Renner, Rachel Weisz and Edward Norton. The Bourne Legacy expands the Bourne universe with an original story that introduces us to a new hero whose life-or-death stakes have been triggered by the events of the first three films.

Last Friday Trivia Contest is 6:30 p.m., Nov. 30 with questions in random categories. Teams may have up to four people. No cell phones are permitted during the event. Anyone using a phone while a question is underway will be disqualified. There are eight rounds with three questions per round. Each round teams have two, four and six points to wager before the question. Only one point value may be used on the first question then you must choose either two or six points for the next question. Whichever value is left must be used for the final question in that round. After the eighth round, teams may wager up to their total points earned for the final question. Prizes are awarded for top finishers.

Day Trip to Lynchburg set for Nov. 17. Plan to come with us on a trip to Lynchburg to visit the town square, Miss Mary Bobo's for lunch then the Jack Daniel's Distillery Tasting Tour. The tasting tour differs from the regular tour in several different ways. It is slightly longer, including some stops not on the regular public tour and the groups are smaller. The biggest difference is at the end there is an opportunity to sample small amounts of the distillery's best-known products: the original Black Label whiskey, Gentleman Jack and Jack Daniel's Single Barrel whiskey. The three samples together total one ounce. We'll start the day at the ALC at 8:45 a.m. First stop will be to get the wristbands for the tasting tour then we will visit the square to take in downtown Lynchburg and the shops. At 12:45 p.m. we will meet at Miss Bobo's for our 1 p.m. lunch reservation. When we are called to our table we will sit down to a real home-cooked meal served family style with plenty of Southern hospitality. After lunch we'll go back to the distillery for our special tour. Cost for this hometown adventure is \$45 and the trip is for ages 21 and older. Call 454-3303 by Nov. 9 to sign up for this event. Remember to wear comfortable shoes and bring extra money for shopping and souvenirs.

Arnold Lakeside Center will hold a **Holiday Bazaar** in Café 100 8 a.m. to 1 p.m., Nov. 15 and 16. Anyone on base may sign up to have booth space. No food, alcohol, or items in bad taste will be allowed. Booth space is \$10 per day and includes one table and chair. Setup may begin Wednesday afternoon and, if participating both days, items may be left until Friday. Services is not responsible for any items left overnight or unattended. Sign up for booth space by Nov. 8 at 454-3303. Payment is required in advance.

Arnold Lakeside Center is hosting a **Thanksgiving**

Day Brunch Buffet Nov. 22 from 10:30 a.m. to 1:30 p.m. Cost is \$16.95 for members, \$18.95 for non members, \$8.95 for children age 4-12 and free for ages three and under. The menu will include scrambled eggs, bacon, sausage, French toast, roast turkey, glazed ham, dressing, green bean casserole, candied yams, mashed potatoes, turkey gravy, cranberry sauce, rolls, pumpkin and pecan pie. Reservations are required for this event by Nov. 15 and made by calling 454-3350.

The annual **Children's Christmas Party** will be held from 1 – 5 p.m., Dec. 2 at the Arnold Lakeside Center (ALC) for ages 12 and under. This event is free and open to all AEDC employees (active duty military, civil service, contractors), National Guard, Reserves, retirees and their immediate families (includes nieces, nephews and grandchildren). The annual Tree Lighting Ceremony will be held in conjunction with this event and will begin when Santa arrives to help flip the switch. Santa is scheduled to arrive at 2 p.m. along with some of his friends. Santa and Mrs. Claus along with their elves will be in the Winter Wonderland tent to visit with the children at 2:30 p.m. Some of Santa's elves will also be in the Winter Wonderland tent to give out goodies to children age twelve and under. It is important to sign up so the elves bring enough. There will be other activities as well as hamburgers and hot dogs served throughout the afternoon. A special Santa Hotline, 454-SNTA (7682), has been setup for children to leave a message for Santa. This number may also be used by parents to register children for the event. Simply press 1 to leave a message or 2 to sign up. Be sure to give your name and specify how many children and how many adults will be attending.

Barber Shop is located in the A&E Building in room A107 and is open Monday, Tuesday, Thursday and Friday from 8 a.m. to 4 p.m. Haircuts are \$8 and are by appointment. Call 454-6987.

Fitness Center 454-6440

Check us out on Facebook! Arnold AFB Services Fitness Center

The Fitness Center will be open **5 a.m. – 6 p.m. Nov. 12** for the Veterans' Day holiday. Classes will be held as normal.

The **Cool 100 Walk/Run Incentive Program** continues. Participants log their miles using the honor system and have until the end of Dec. to log 100 miles. Participants may use the track located behind the A&E building, the trail behind the Fitness Center, a treadmill in the Fitness Center facilities or at home. These miles are to be turned in either daily or weekly. All who complete the program will receive a t-shirt. Call 454-6440 to sign up and remember to give your shirt size.

Blood Pressure Screening will be held in Café 100 11 a.m. – 12 p.m., Nov. 14. Not sure what your blood pressure level is or why it matters? The Fitness Center staff will be providing free

Hours of operation

Arnold Lakeside Center: Catering/Management offices by appointment. Cashier Monday through Friday, 9 a.m.-4 p.m. Dinner: full menu available Thursday, 5-8 p.m.; Friday and Saturday 5-9 p.m. Main Bar: Thursday, 5-8 p.m.; Friday, 4-10 p.m.; and Saturday, 5-10 p.m. Social Hour: Friday, 4-6 p.m. Movie Night: Thursday, 6:30 p.m. **Closed Nov. 22 after Thanksgiving Day Brunch Buffet through Nov. 24**
Information, Tickets & Travel (ITT): Tuesday through Friday, 10 a.m. – 3 p.m. **Closed Nov. 22 after Thanksgiving Day Lunch Buffet through Nov. 23**
Café 100: Monday through Friday, 6:30 a.m. – 1:30 p.m. **Closed Nov. 12, 22 and 23**
Barber Shop: by appointment – Monday, Tuesday, Thursday & Friday, 8 a.m. – 4 p.m. **Closed Nov. 22-23**
GLC (office located at Arnold Lakeside Center): Monday through Friday, 7 a.m. – 3:30 p.m. May vary depending on bookings. **Closed Nov. 22**
Outdoor Rec: Tuesday through Sunday, 8 a.m. – 6 p.m. Winter hours begin Nov. 1, 10 a.m. – 5 p.m. Tuesday through Saturday. **Closed Nov. 22**
Fitness Center: Monday-Friday, 5 a.m.-7:30p.m.; Saturday, 8 a.m.-1 p.m.; Sunday Closed. **Open 5 a.m. – 6 p.m. Nov. 12, classes as normal; Open 8 a.m. – 1 p.m. Nov. 21, no classes; Closed Nov. 22, Open 8 a.m. – 1 p.m. Nov. 23, no classes**
Arnold Golf Course: Pro Shop & Driving Range: 8 a.m. – dusk. Driving Range open 24 hours with pre-purchased key card. Mulligan's Coffee Bar & Grill: Monday through Friday, 10:30 a.m. – 2 p.m., Saturday and Sunday, 8 a.m. – 2 p.m. **Closed Nov. 22**
Recycling: Monday through Friday, 7 a.m. – 4 p.m. **Closed Nov. 12 and 22**
Wingo Inn: Monday through Friday, 7 a.m. – 6 p.m., Saturday and Sunday, 8 a.m. – 4 p.m.
Nonappropriated Funds Human Resources: Monday through Friday, 7:30 a.m. – 4 p.m. **Closed Nov. 12 and 22**

assessments and providing information. High blood pressure usually has no symptoms but can lead to serious problems. You can control high blood pressure through healthy lifestyle habits and medication. Stop by and see where your numbers fall and learn more about heart health.

Single Round Robin Basketball is coming in January. Get your teams together and sign up by Dec. 17. Games will be played at 5:30 and 6:30 p.m., Tuesdays and Thursdays. Ages 18 and older are eligible to sign up. Rosters are due Dec. 17 but players may be added to the roster mid way through the session. A limited number of off-base players may be added in order to provide a more competitive experience. The team with the most wins will be named champion and team members will receive a t-shirt. Complete rules and by-laws are available from the Fitness Center.

Group Class Schedule:
Boot Camp – Monday, Wednesday and Friday, 6-7 a.m.

Yoga – Monday, Wednesday and Friday, 11 a.m.-12 p.m.

Cycling – Monday, Tuesday and Thursday, 11 a.m.-12 p.m.

Interval Training – Tuesday and Thursday, 3:30-4:30 p.m.

Outdoor Rec (ODR) 454-6084

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

Winter hours begin Nov. : 10 a.m. – 5 p.m. Tuesday through Saturday

It's time to get the Christmas season going. Outdoor Recreation is once again conducting the **Deck the Doors competition**. Squadrons, offices or groups may enter and decorate their office door with a holiday theme or message. All wanting to enter must call to indicate they are participating by Nov. 21. Remember to give your building number and location of the door. Doors used for this event must remain functional if they were prior to decoration. Decorations on the door will be the only part judged. Any additional work on walls, etc. will not be judged with the door. Doors must be decorated by close of business Nov. 28. On Nov. 29 Outdoor Recreation staff will take pictures or come by with judges to view every door entered. Selections will be

made for first, second and third place. Prizes will be a group function with Services valued at \$300 for 1st place, \$200 for 2nd place and \$100 for 3rd place. These are for a one-time event with no carry over but may combine several activities within Services. For example, you may choose to play paintball and have lunch or go on a boat ride and have dinner, play golf and have lunch or any combination. The winners will be announced at the DOD Holiday Party on Dec. 7.

Paintball continues with regular play every Saturday except third Saturday which is tournament day. Paintball is for ages 10 and older and ages 10-17 must have a parent permission form. Remember to wear appropriate clothing – long pants, a long-sleeved shirt and closed toe shoes.

Regular Saturday play is every weekend from 9:30 a.m. to 2:30 p.m. except third Saturday due to monthly tournaments. Those interested need to call and sign up at least a day ahead of time to ensure equipment availability. When the day arrives, simply meet at the paintball field and get play underway with the direction of an Outdoor Rec (ODR) staff member. Cost is \$35 per person with equipment provided and includes 500 paintballs and a tank of air. It is \$20 per person for those with their own equipment and that also comes with 500 paintballs. All paintballs used must be purchased from ODR for \$13 per bag of 500 or \$45 for a box of 2000.

Monthly tournaments are on the third Saturday beginning at 10 a.m. Teams of four play double elimination to test your skills until the best team arises. Prior to the tournament there will be a 25-minute warm up field time with team on team play. There must be at least one team member above age 18 and there must be at least eight teams to hold the tournament. ODR has 20 paintball guns available on a first come first served basis. Indicate at time of registration if you will be using your own equipment or need to reserve equipment. Cost to enter the tournament is \$55 per team and includes a bag of 500 balls and air for the day for each team member. The winning team will receive a free day of paintball (regular Saturday play) for all four team members valid for one year and includes equipment, field fee, air for the day and bag of 500 balls. Sign up deadline for the tournament will be the Tuesday prior and late registration/cancellation fees will be applied the Wednesday prior.

Call 454-6084 for more information about the paintball program or to sign up for these events.

Archery Basics Class will be Nov. 17 for ages 10 and older. The class is \$3 and will begin at 9 a.m. Deadline to sign up is three days before each class. There must be at least three to take the course and no more than 12. This class will teach the basics of archery to include how to hold a bow properly, how to shoot with correct technique and also learn some history. Bows, arrows and targets will be provided but you may bring your own equipment if you have it.

Turkey Call Basics Class will be Nov. 10 for ages 10 and older. The class is \$3 and will be from 10 a.m. to 1 p.m. Deadline to sign up is three days before the class. There must be at least three to take the course and no more than 20. This class will teach the basic skills and techniques of how to use a turkey call. There are many different types of turkey calls and a good hunter learns to use several. Why? Because you never know which type of sound a gobbler will respond to on any given day. Some days they like the high-pitched yelps of an aluminum friction call and some days they prefer a box call. This class will describe and demonstrate many options available. This will be a hands-on class and you may bring your own equipment. All 20 participants will receive a free mouth call. Call 454-6084 for more details or to sign up.

Trip to Ruby Falls for **Ruby Red Christmas** is coming Dec. 8. Call today for more details and to sign up.

Extended Stays available at FamCamp. The FamCamp is a wooded area off of Northshore Road on the banks of Woods Reservoir with tent and RV camping. Amenities include bathhouse with shower, barbeque grills, fire rings, lantern hangers, boat launch pad, picnic and beach area, covered pavilion as well as washer/dryer service and boat docking service. There are 18 tent sites and 36 RV sites, 15 of which are pull-through. All RV sites are equipped with 30 and 50 amp 115V service. Daily rates for RV camping are \$20 during the summer and \$15 during the winter (Nov.-Apr.). Did you know that you can stay for up to three months at FamCamp? Monthly rates are \$450 during the summer

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and \$400 during the winter. Sites 27-36 are designated for extended stays. Extended stays are only allowed in three month increments and there must be a one month gap between stays. Reservations may be made up to 45 days in advance for active duty, National Guard and Reserve military. Up to 40 days in advance for military retirees and up to 30 days for DOD employees. All others may make reservations up to 20 days in advance. Tent camping is available at \$7 daily. Washer/Dryer service is \$2 and boat docking is \$5. A convenience store is open 12-4 p.m. Friday through Sunday May through October and open Mondays if in conjunction with a holiday weekend. Other camping is available at Crockett Cove and Dogwood Ridge. Crockett Cove offers five rustic cabins with heat and air, mini fridge, microwave, front porch swing, grill and picnic table. There is no running water but a bathhouse is on site. The one or two room cabins rent for \$40/\$50 per day during the summer and \$30/\$40 during the winter. Dogwood Ridge consists of six travel trailers with water, sewer, electric and propane complete with deck, picnic table and chairs. The trailers rent for \$40 daily, \$75 for two days or \$200 per week. Extended three month stays are also available at these areas. Call Outdoor Recreation at 454-6084 for more details or to make reservations.

RV and Covered Boat Storage slots available. Outdoor Rec has eight

open slots available in the RV storage yard. Each slot is 30 ft. long and 10 ft. wide and rents for \$25 per month or \$250 per year. The covered boat storage has nine slots open. The boat storage slots are 40 ft. long and 12 ft. wide and rents for \$45 per month or \$450 per year. Both storage yards require proof of registration and insurance of item placing in storage along with a signed contract based on length of stay. Access to the storage yard will be granted at the time the contract is signed. Call for more details or to reserve your slot.

Outdoor Rec inflatables. There is an assortment of inflatables for almost everyone's needs. We have a huge backyard obstacle challenge measuring 40'L x 10'W x 13'H, and a double lane jump slide for only \$150 per day. We also have a giant basketball hoop for \$30 per day and a Rocket Bounce House for \$75 per day. If you need a water slide then our 18' Double Drop Wet/Dry slide will be great for any event and is only \$150 per day. Please contact Outdoor Recreation at 454-6084 to make your reservation today!

Teambuilding Facilitation now available through Outdoor Rec. Book your team building event at least two weeks in advance and customize your activities to include leadership, communication, trust, conflict resolution and more. Our kit has 289 activities and can serve up to 120 participants. Large group challenges can accom-

modate up to 60 people. This equipment must be facilitated by an Outdoor Rec staff member and is not available for rent or private use. Department of Defense organizations may utilize the program for free. All others have the option of half day (4 hours) for \$50 or full day (8 hours) for \$100. Call to find out more information or book your team building event.

**Wingo Inn
454-3051**

Check us out on Facebook! Wingo Inn

Reservations for Wingo Inn can be made 120 days in advance. Room rates start at \$53.25 per night. Please call 454-3051 for reservations.

Lodging rates increased. After four years without a rate increase, Air Force lodging rates have gone up, Air Force Personnel Center Officials said today. The increase is necessary to ensure Air Force Lodging rates cover current operating and capital improvement costs, said Maj. Gen. A.J. Stewart, AFPC commander. The \$39 nightly room rate for a visiting quarters room is now \$53.25 and DV suites have gone from \$48.25 to \$66.75. Increased rates will fund costs for operations, room renovations and construction, Stewart said. As the Air Force works to improve business processes, implement efficiencies and maintain lodging operations in a constrained budget environment,

other adjustments may be necessary, according to Col. Thomas Joyce, director, AFPC Services Directorate. "We are committed to keeping room rates as low as possible while providing clean, comfortable, quality facilities," he said. "This is part of our commitment to caring for Airmen and we take that obligation very seriously. However, we must be realistic as well." Even with the rate increase, Air Force rates are lower than comparable commercial rates outside Air Force installations, the director said. Coupled with quality service, clean facilities and reasonably priced room rates, Air Force lodging facilities are still a great choice, whether on temporary duty orders, retired and traveling, or just passing through.

**Gossick Leadership Center
454-4003**

Check us out on Facebook! Arnold AFB Services Gossick Leadership Center

The Gossick Leadership Center (GLC) may be used for events such as meetings, conferences, luncheons, dinners, etc. and is booked through the Services Conference Center Manager (CCM) up to one year in advance. Requests must be made in writing by email to arnold.glc@arnold.af.mil. All event coordinators

are required to sign an agreement. Official unit functions are authorized at no charge and are defined as bona fide official meetings or training held as part of the normal duty day. Unofficial and private functions may be held for authorized users at a fee. Community members may host events with the approval of the Services Director for a fee. Outside food and beverages are not allowed. First consideration must be given to Arnold Lakeside Center. In the event they cannot accommodate, an outside source may be utilized with CCM approval. For more information contact the CCM at 931-454-4003.

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