



HIGH MACH

Serving the World's Premier Flight Simulation Test Complex



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AEDC Wind Tunnel upgrade improves flexible nozzle accuracy and reliability

By Raquel March
ATA Public Affairs

AEDC's aerodynamic customers will have added assurance of smooth Mach number transitions due to recent upgrades underway in the Propulsion Wind Tunnel's (PWT) four foot transonic wind tunnel called 4T.

An AEDC operations and maintenance team recently completed the mechanical installation of new flexible nozzle actuators in a series of scheduled upgrades for 4T, a continuous-flow, mid-size test facility used for conducting small-scale aerodynamic and store separation tests.

The new actuators are electro-mechanically driven ball-screw jacks which move the flexible top and bottom plates in the 4T tunnel providing variable Mach numbers or wind speeds. They will provide precision movement of the flexible plates and the ability to better handle the bending stresses and aerodynamic loads generated while testing.

"There are 15 actuators on both the top and bottom plates providing a 'mirror image' movement," said Doug Ratliff, an ATA PWT 4T modernization project manager. "These actuators are similar to the ones that were recently installed in VKF (von Kármán Gas Dynamics Facility)."

Another upgrade to 4T's flow capability includes a new flexible nozzle actuator control system (NCS) like the system utilized in the complex's VKF wind tunnel A which is also equipped with a flexible nozzle.

The NCS is currently being installed and has an operator interface that will allow the operator to position the nozzle plates, monitor the system status and diagnose control system problems.

The NCS also has a positioning pro-



Keith Gipson, an ATA outside machinist, installs newly designed and fabricated nozzle actuators in the Propulsion Wind Tunnel's four foot transonic wind tunnel, 4T at AEDC. The actuators are electromechanically driven ball-screw jacks which move the flexible top and bottom plates in the 4T tunnel closer together providing variable Mach numbers or wind speeds. (Photo by Rick Goodfriend)

gram which provides closed-loop control for the nozzle actuators. The protection system in the NCS continuously monitors the hardware and software performance health and plate stress to protect the nozzle plates from damage.

The 4T modernization team was able to rely on in-house expertise for developing the NCS. AEDC's ATA support contractor's Manufacturing Services section fabricated and installed the NCS cabinets and hardware. The ATA Instrumentation and Controls Systems Design section

developed the NCS software while the Facilities & Test Techniques section created simulation software. The Flight Systems Operations & Maintenance section is installing the field wiring.

"Due to the unique test facilities and support systems found at AEDC, having the ability to do in-house design and fabrication allows AEDC to quickly respond to any repairs or modifications which may

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Visitor Center ID services unavailable due to upgrade

By Raquel March
ATA Public Affairs

The AEDC Visitor Center's Defense Enrollment Eligibility Reporting System (DEERS) and Real-Time Automated Personnel Identification System (RAPIDS) service will be unavailable May 20-21 due to hardware upgrades.

The Visitor Center will not be able to issue a Common Access Card (CAC) or military identification (ID) for AEDC personnel, active duty, retirees, family members, Guard and Reserve.

AEDC personnel needing an ID card or a CAC should make arrangements before the upgrade dates. Non-AEDC personnel may contact the visitor center at 454-5453 to obtain a list of other military ID service facilities that may be able to provide ID services during the upgrade.

The DEERS/RAPIDS are operational programs in support of resources and benefits management, critical defense missions, the Uniformed Services Identification Card program and awareness regarding benefits to which uniformed services personnel and their family members are entitled.

DEERS is a computerized database for United States Service members, retirees, dependents, DOD active contractors and others worldwide who are entitled to Public Key Infrastructure and TRICARE eligibility. DEERS is used in the RAPIDS to issue the definitive credential within DOD for obtaining a CAC.

AEDC's Visitor Center provides military ID services and base entry services to AEDC personnel as well as area military, retirees, family members and other base visitors.

ACC promotes Testing Center Caucus

By Kathy Gattis
ATA Public Affairs

Arnold Community Council (ACC), a group who supports and promotes AEDC, recently made their annual trip to Capitol Hill for meetings with elected officials and key staffers at the Pentagon. They also collaborated with support councils from Edwards and Eglin Air Force Bases.

One of the ACC's primary objectives was to encourage membership in the newly formed 'testing center' caucus.

The caucus will focus on the Major Range and Test Facility Bases (MRTFB), considered national assets because of their test and evaluation missions.

Tennessee's 6th District Congressman Diane Black formed a bipartisan Congressional Range and Testing Center Caucus earlier this year and will co-chair the group.

"I launched the Congressional Range and Testing Center Caucus because I want to make certain that my colleagues in Congress recognize the strategic value of our nation's range and testing centers," Black said. "It is my goal to see that AEDC and installations like it across the country are equipped with the tools they need to carry out their missions."

"The caucus will amplify the voice of AEDC in Congress," she said. "It will also help Congress better understand AEDC's value and purpose."

See ACC, page 3

AEDC team supports testing of GE engine in J85 facility



Prior to a static performance test at the University of Tennessee Space Institute (UTSI) Propulsion Research Facility, Brad Besheres, an outside machinist in the ATA Technology Branch's instrumentation and diagnostics group, is inspecting AEDC's upgraded J85 Augmentor rig coupled to GE's developmental augmentor assembly, all of which is mounted on the facility's T-6 thrust frame. The test has two phases, with the first to characterize and evaluate the augmentor's durability and mission performance. The second phase focuses on instrumentation and diagnostics project activities. These focus on various measurement techniques (optical tail pipe camera stereoscopic imaging and gas sampling techniques) that can be applied to gas turbine engines. (Photo by Rick Goodfriend)

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HIGH MACH

Arnold Engineering Development Complex
An Air Force Materiel Command Test Complex

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Core Values

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



Vision

"ATA will be a trusted partner in delivering best value warfighter support and assert 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

Arnold Police encourage motorist and motorcyclist to 'share the road' in May

By Arnold Police Department

May is Motorcycle Safety Awareness Month, and the National Highway Traffic Safety Administration reminds motorists and motorcyclists to "share the road" to help prevent motorcycle crashes.

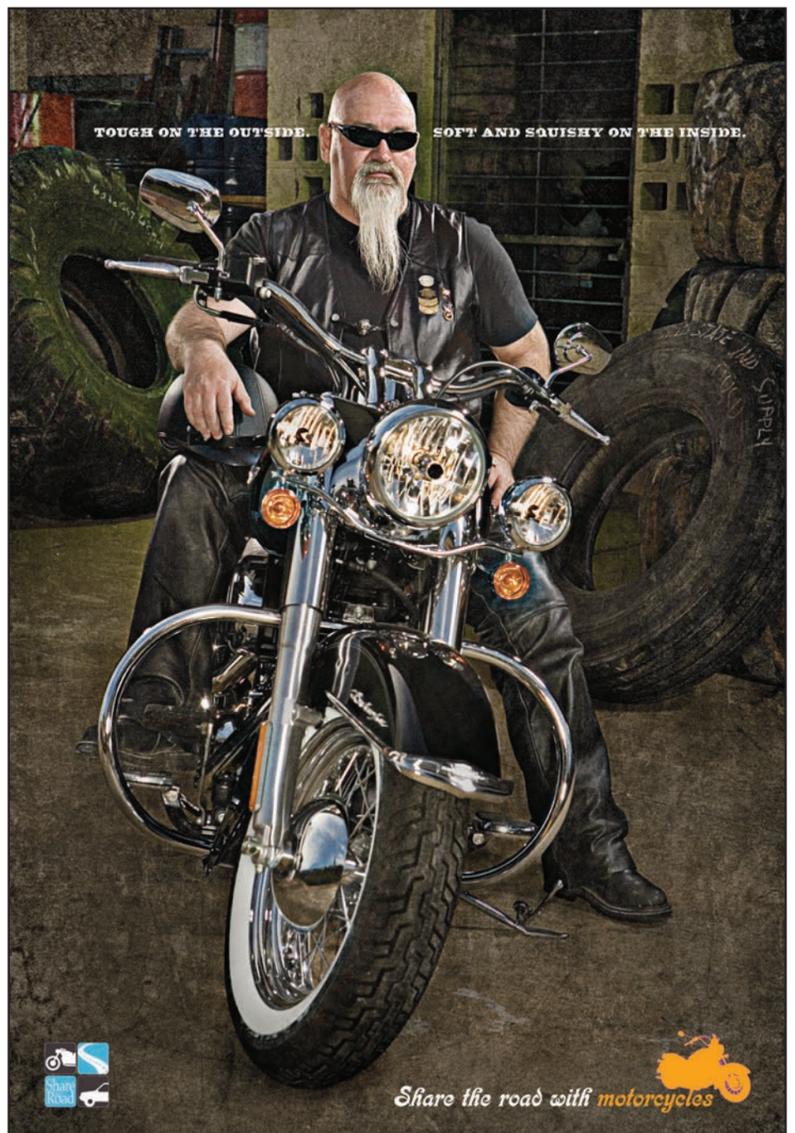
Such crashes are a leading cause of death and injury on roadways. Be on the lookout for increased presence of local law enforcement throughout May to be sure motorcyclists, and drivers of all types of vehicles, are obeying state and local laws.

Motorcyclists are about 30 times more likely to die in a crash than passenger vehicle occupants, so whether driving the family sedan, an SUV, school bus, delivery van, or 18-wheeler, drivers should always look out for motorcyclists. Drivers must be aware that a motorcycle

is one of the smallest vehicles on the road and cannot be seen in a vehicle's blind spots. Always check blind spots, use mirrors and signal before changing lanes or making turns.

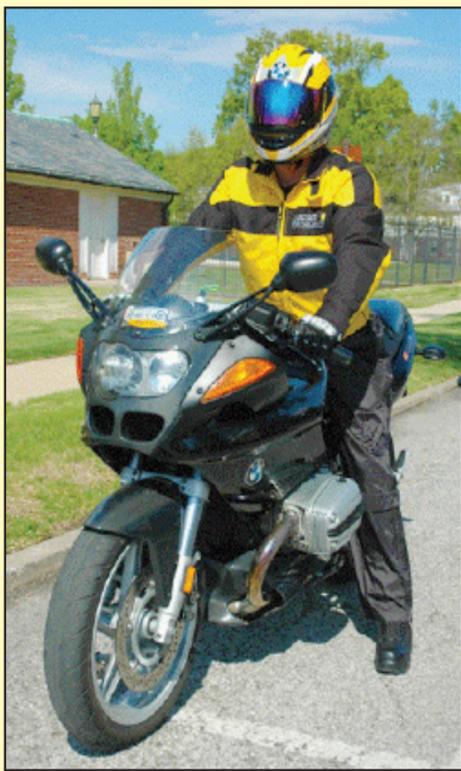
This safety advice is particularly timely as motorcycle fatalities in 2011 showed a continued increase to 4,612. Motorcycle fatalities accounted for 14 percent of total highway deaths for the year despite motorcycle registrations representing only about three percent of all vehicles in the U.S.

Motorcyclists have responsibilities too. Riders should obey all traffic laws and be properly licensed, alert to other drivers, conspicuous at all times, never ride impaired or distracted, and always wear appropriate protective gear.



For AEDC riders, PPE requirements include:

- **approved helmets for operators and passengers** – Helmets may be ventilated as long as they meet, as a minimum, DoT standards and are properly worn and fastened. Hard hats are not an acceptable substitute for helmets.
- **impact or shatter-resistant goggles or full-face shields** – (unless the bike is equipped with a windshield equal in height to or above the top of the helmet of the properly upright-seated operator)
- **brightly colored vest or jacket** – (must be reflective at night) Ventilated jackets are available or a light-weight vest may be worn.
- **full-fingered gloves or mittens** – These too may be ventilated.
- **long sleeves; long pants** – (no shorts)
- **sturdy footwear** – (over-the-ankle is recommended; no sandals or cloth sneakers)



Test Center Commander encourages safety for 'Critical Days of Summer'

By Maj. Gen. Arnold Bunch Jr.
Air Force Test Center

Summer is quickly approaching and with it the prospect of barbecues, outdoor sports, and vacation road trips. I know I am looking forward to many of those activities.

Unfortunately, summer fun all too often comes with a high price: a rise in off-duty mishaps from sunburns to sports injuries to boating or travel mishaps.

As we enter the Critical Days of Summer, which run from May 24 to Sept. 3, and you enjoy the many fun opportunities summer brings, I ask you to be diligent in keeping yourself, your family, your friends and your co-workers safe. Whether you are in the mountains, desert or on the water, never extend yourself or your

companions beyond your or their skill level or beyond the capability of your equipment. Always manage your risk to ensure you will have an enjoyable, mishap-free experience and will be able to return to work after your summer adventures.

To ensure your safety and the safety of those around you, I encourage you to take a safety class (boating, camping, water skiing, etc.) if you are not a seasoned veteran in these activities, so you understand the risks and can properly mitigate those risks before your start your fun.

I encourage you to keep your alcohol intake within your limits and always remain in control.

Be the wingman I know

you can be, and stop that unsafe act before someone has a mishap. Don't be afraid to speak up when something does not look right. Call "knock it off" early when things are not going as planned. An early, decisive action on your part may be all that is needed to break the chain of events leading up to a mishap.

An injury, or yet the death, of an AFTC Team member affects us all and the impact hits us even harder if it was avoidable.

Manage the risk - be safe. Have fun this summer and remember you are a valuable member of the AFTC team and we are counting on you. I need you back so we can accomplish our critical mission.

Thank you for what you do each and every day to make AFTC successful.

Do your part – Please recycle this paper after reading!

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://es.eis.afmc.af.mil/sites/cio/IM/Pubs/AEDC/Pubs%20and%20Forms/AEDC%20Publications/Smoking_area_map.pdf. Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

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.

AFMC embraces 'Every dollar counts', new culture of savings

WRIGHT-PATTERSON AFB, Ohio – Air Force Materiel Command leaders are pledging their support for a new money-saving Air Force initiative dubbed Every Dollar Counts.

In the wake of sequestration and reduced budgets, the initiative calls on Airmen to submit their money-saving ideas as part of a new culture of savings.

"This is an opportunity to respond to a tough situation with creative, lasting solutions," said Gen. Janet Wolfenbarger, AFMC commander.

As part of the initiative, there will be a month-long open call for innovative, cost-conscious ideas. From May 1 to June 1, Airmen can submit their proposal via the Airmen Powered by Innovation websites while at home, the office or on their smartphone. Links to those sites will be released soon.



Wolfenbarger

Both uniformed and civilian Air Force members can participate in the call for ideas and share their creative and efficient ways to save money and time.

"We've asked all AFMC organizations and Airmen at every level to contribute ideas," said Wolfenbarger. "Our command is filled with many bright minds and I'm confident we'll see that

reflected in the submissions." Along with collecting Airmen inputs, the Every Dollar Counts initiative is intended to kick off a cultural shift during a time of shrinking budgets.

Air Force Vice Chief of Staff Gen. Larry Spencer said, "We stopped flying one-third of Air Force active duty combat-coded fighter squadrons in April, and we're projected to slow down or stop the flow of aircraft and engines in the depots."

Furthermore, he said, the Air Force must trim about \$11 billion in the last half of fiscal year 2013. Additionally, our overseas contingency operations funding is almost \$2 billion short so we have to make up that difference as well.

And the challenge is compounded by the sequester timeline, which officially began March 1.

"We have to squeeze a year's

worth of cuts into about six months," Spencer said of the Air Force budget. "So there's a lot of money to be taken out of our budget in a short period of time ... I've never seen anything quite like it."

The initiative's call for ideas includes those that might not have previously been considered.

"Airmen Powered by Innovation means go into that file of good ideas that were maybe 'too hard to do,' pull them out and submit them," Spencer declared. "If it's a good idea and requires an Air Force Instruction change, then we'll see if we can do that."

Spencer wants Airmen to submit their ideas regardless of the idea's potential savings.

"Whether it's \$500, \$1 million or \$30 million, we want to hear it because those dollars add up," he said. "We're taking every angle we

can to manage our money and 'buy' as much mission as we can," he said. "In that sense, every Airman, whether they're at a wing or headquarters can help."

The Every Dollar Counts initiative does not just focus on wings but includes those large centrally managed accounts as well.

"The Centralized Asset Management Office at Wright Patterson AFB manages the money we spend on flying hours, sustaining space operations and depot operations -- over \$16 billion -- so we're taking a close review of that account to determine how we can stretch those dollars," said Spencer.

The general expressed optimism in quickly finding solutions through ideas.

"Innovation is what we're all about," Spencer said. "This is our family and we're going to get through this because we've got great Airmen to help see us through this."

UPGRADE from page 1

be needed to address unique requirements or changing demands of our test customers," said Ricky Mead, an ATA PWT 4T modernization project manager. "It also means that, should a customer determine during testing that their model requires a modification(s) in order to continue, they do not necessarily have to send the model back to their home office for the modifications, but can get those modifications done right here at AEDC minimizing both the cost and the impact to

their testing schedule."

A new 4T roll mechanism, designed and fabricated by AEDC's Model and Machine Shop, has been checked out and is being prepped for installation.

The roll mechanism which supports the sting, or test support arm, and the test article, provides the ability to roll the test article during a test. It will handle higher loads required when operating the 4T Captive Trajectory Support (CTS) system used to conduct staging or store separation testing.

"The nozzle upgrades, along with upgrades to the 4T Data Acquisition System (DAS) and the Captive Trajectory System (CTS), will provide commonality between 4T and the A, B and C tunnels for AEDC customers who wish to test their model in both 4T and tunnels A, B or C," Mead said. "It will also provide a similar look and feel for AEDC test crews who conduct testing in both 4T and A, B and C tunnels."

The 4T tunnel is scheduled for return to service July 2014.

Dr. Don Malloy receives technical AFMC award

By Philip Lorenz III
ATA Public Affairs



Malloy

The 2013 AFMC Senior Civilian Engineer Award was recently presented to Dr. Donald Malloy, flight systems analysis lead with AEDC's Analysis and Evaluation Branch.

The award citation reads in part, "During 2012, Dr. Malloy demonstrated innovation, initiative, and unrivaled technical expertise, creating and executing a risk reduction plan to support a low-cost, accelerated aerial target development effort."

"Leading and mentoring a joint government and contractor team, he established Arnold Engineering Development Complex as a Center of Excellence in the area of engine-inlet integration."

"His tireless efforts consistently ensured that ground test benefits were maximized and delivered results were timely, accurate and actionable. The superior performance of Dr. Malloy reflects great credit upon himself, the Air Force Materiel Command, and the United States Air Force."

AEDC's Analysis and Evaluation Branch chief Dr. Bill Baker, who nominated Malloy for the award, said, "Since joining the Analysis and Evaluation Branch in 2011, Dr. Malloy has been an outstanding technical performer. He was selected to lead the flight systems part of the branch and mentor the young analysts working the ground and flight test analysis of aircraft,

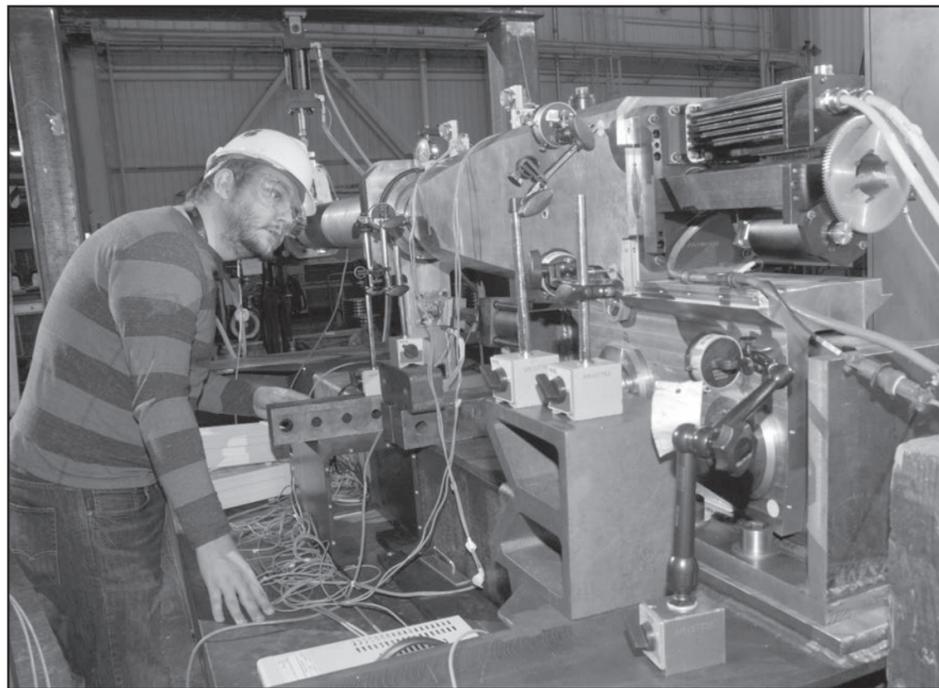
missiles and other flight vehicles.

"In addition to leading the analysis activities of his group he has been the liaison between the Analysis and Evaluation Branch and the Flight Systems Test Complex."

Baker added, "In the Air Force Materiel Command Senior Civilian Engineer of the year award, Dr. Malloy was specifically cited for his operational impact on AEDC customers and their programs, including the reduction of risk to major programs."

"Also cited [in the award write-up] were the innovative ideas that will save millions of dollars in flight testing and the avoidance of millions of dollars in cost for developmental programs. His customer focus, exemplified by his response to customer needs and his attention to cost and schedule control, were also cited."

"These successes are attributable to the impressive technical abilities of Dr. Malloy and the professionalism and expertise of the AEDC personnel, both government and contractor with whom he works."



ATA Mission Support Department construction manager Dusty Kirkham conducts calibration tests on the new roll mechanism that will be used at AEDC in the Propulsion Wind Tunnel's four foot transonic wind tunnel, 4T. The roll mechanism which supports the sting, or test support arm, and the test article provides the ability to roll the test item during a test and handle higher loads of a test requirement. (Photo by Rick Goodfriend)

ACC from page 1

Twenty members of Congress have joined the caucus so far. Black says the caucus will make site visits to the MRTFB installations and receive briefings from high-ranking DOD officials. Topics will include how Congress oversees the T&E budget and the MRTFB and the role of MRTFB installations in the acquisitions process. In addition, community support groups will receive visits from the delegation.

"The caucus is critical for the future protection of test center funding," said ACC president and one of the trip's organizers, Steve Cope.

"I believe AEDC is critical to the safety of our nation's future flight vehicle, but also very critical to the economic future of our entire middle Tennessee area," Cope said.

Mike Niederhauser, the ACC community and public relations representative, worked with Black and Congressman Kilmer (also a caucus co-chair) to host a breakfast on Capitol Hill. The event was attended by many elected officials and their staffers who planned to participate in the new caucus.

"Mike Niederhauser did so much prep work to pull this together," Cope said. "This was one of the most successful trips I've been associated with concerning ACC."

The group also met with lead-



ATA Deputy General Manager Phil Stich talks with Tennessee's 6th District Congressman Diane Black. (Photos by Kathy Gattis)

ers of the Antelope Valley Board of Trade and the Edwards Civil (Edwards AFB, Calif. support groups) and the Defense Support Initiative (Eglin AFB, Fla. support group). They even attended some meetings jointly -- the meetings at the Pentagon and meetings with elected officials on the House and Senate Armed Services Committees.

ATA sent several of their key staffers on the trip with the ACC members -- Phil Stich, Mark Rigney and Dr. Rob McAmis.

"It was interesting to see some of the inter-workings of our U.S. government during the trip," said ATA Deputy General

Manager, Phil Stich. "It was also very evident how much the ACC cares about AEDC. I want to thank the members of the ACC who donate their time and efforts in support of AEDC."

In addition to encouraging caucus membership, ACC talked about the quick lease of AEDC land; AEDC's ability to accept new missions; establishing AEDC as a Hypersonic Ground Test Center of Excellence with the University of Tennessee providing a High Speed Systems Study and an outlet for Science, Technology, Education and Math (STEM); more flexibility for Test Center and Complex Com-



(L-R) ACC President Steve Cope and Tullahoma Area Chamber of Commerce Executive Director Diane Bryant talk with Congressman Diane Black about the caucus she recently formed.

manders; and some regulatory relief and streamlining the International Trafficking in Arms Regulation (ITAR).

Cope, along with about 20 other community leaders, travel to Washington, D.C. each year to promote AEDC and make sure the nation's elected officials don't forget the importance of the Complex and its mission.

To learn more about the ACC, visit their website at www.arnoldcommunitycouncil.com.

Scan this QR code for more 2013 ACC Washington D.C. Trip photos.



AEDC's Andrew Fist wins AIAA best paper awards

By Philip Lorenz III
ATA Public Affairs

AEDC's Andrew Fist recently competed in the Masters Division of the 64th American Institute of Aeronautics and Astronautics (AIAA) Southeastern Regional Conference in Raleigh, N.C., and won the first place award with a technical paper titled "Improved Mean Flow Solution for Solid Rocket Motors," which he coauthored with University of Tennessee Space Institute (UTSI) professor Dr. Joe Majdalani.

UTSI student Dimitrios Kakavelakis III won second place with a paper titled "Nusselt Number Correlation for Cyclonically-Cooled Liquid Rocket Engines," which was also coauthored with Dr. Majdalani.

Dr. Majdalani is UTSI's H.H. Arnold Chair of Excellence in Advanced Propulsion and professor of mechanical and aerospace engineering.

Fist, a turbine engine

test manager at AEDC, is pursuing a Master of Science degree in mechanical engineering at UTSI.

He spoke about the inspiration for the award-winning technical paper.

"The content of the paper stemmed from Dr. Majdalani's work in flow field analysis, an effort that has been a significant research area at UTSI for almost 15 years," Fist said.

"Essentially, we looked at an equation that estimates how particles in a solid rocket motor move through the rocket on the way to the nozzle. By making some slightly different assumptions than those made by researchers in the 1950's and 1960's, we found that a new solution was possible that described a swirling flow issue identified in a number of laboratory experiments over the years."

Fist added, "I think the key to the success of the paper was that the new equation was nearly identical to a set of solutions (Bessel Func-

tion Solutions) that I learned about in Dr. Majdalani's heat transfer course in the previous semester."

Fist said working at AEDC for the past three years has also contributed to his success with the technical paper that placed first in the recent competition.

"Working at AEDC has certainly inspired me to try my best to make a lasting contribution to the aerospace community," he said. "I feel extremely fortunate to have had the support of the Air Force and UTSI ever since I arrived here, and I'm hopeful that follow-on work on the topic will bring about more concrete tools for both researchers and industry to use in the coming years."

Fist said winning the award was an honor, but also a humbling experience.

"It's always exciting to be recognized for your effort, but more than anything the process has reminded me about how much there is to be learned, and how much I respect the researchers that



Pictured above, from left to right, are Dimitrios A. Kakavelakis, III, Dr. Joseph Majdalani (Advisor), and Andrew Fist. (Photo provided)

came before me that had far fewer tools to aid them in their work," he said.

North Carolina State University and the Student Branch of AIAA in Raleigh, Durham, N.C., hosted the 64th Annual Southeastern Regional Student Conference. A total of 170 student delegates from 16 southeastern universities competed this year, an all-time high in the history of Region II.

Participating universities

included, Auburn, Embry Riddle Aeronautical, Florida Tech, Florida State, Georgia Tech, Mississippi State, NCSU, Tuskegee, Alabama (Huntsville and Tuscaloosa), Central Florida, Memphis, Miami, UTSI and Vanderbilt.

As the first place winner, Fist will receive an AIAA supported trip to participate in next year's international student competition, which will be held in January as part of SciTech'14, in con-

junction with the 52nd Aerospace Sciences Meeting in Maryland.

Fist is from Dayton, Ohio with a Bachelor of Mechanical Engineering degree from the University of Dayton. Kakavelakis is from Albuquerque, N.M., and is pursuing a master's degree in engineering science. He holds a Bachelors of Science degree in pure mathematics from Georgia College & State University, Milledgeville, Ga.

New under secretary sworn in during Pentagon ceremony

WASHINGTON (AFNS) – The Senate confirmed the nomination of Eric Fanning to become the next under secretary of the Air Force April 18 and he began his transition into the office after being sworn in April 29.

"On behalf of the more than 690,000 men and women of the U.S. Air Force, I want to welcome Eric to our Air Force family," said Secretary of the Air Force Michael Donley. "He will be a tremendous asset to our Air Force and our leadership team. His diverse background in national security matters, coupled with this communications and congressional experience, will enable him to be a champion for our Airmen and their families during this challenging time in the



Mr. Eric Fanning was sworn in April 29, as the next under secretary of the Air Force during a Pentagon ceremony. (Courtesy image)

Department of Defense."

President Obama nominated Fanning Aug. 1, 2012. At that time, he was serving as the deputy under secretary and deputy chief management officer for the Department of the Navy.

"I have been immensely

proud to serve these last four years with the men and women of the Navy and the Marine Corps, and I look forward to being part of the Air Force family," Fanning said. "I am honored by this opportunity and look forward to stand beside Secretary Donley in making sure the men and women of this great service receive the support they need in undertaking the mission of defending our country."

The Air Force has been without an under secretary since June 2012, when then-Under Secretary of the Air Force Erin Conaton was appointed to under secretary of Defense for Personnel and Readiness. Dr. Jamie Morin was appointed to serve as the acting under secretary in July 2012.

"I want to thank Jamie

for his dedication to the team as the acting under secretary of the Air Force these last 10 months. His command of complex issues and tireless efforts ensured the best interests of the Airmen, their families and the Air Force remained at the forefront of every decision," Donley said. "We will continue to benefit from his leadership as he continues his role as the assistant secretary of the Air Force for Financial Management and Controller."

The under secretary is responsible for Air Force matters on behalf of the Secretary of the Air Force to include the organizing, training, equipping and providing for the welfare of its Total Force Airmen and their families. He will oversee the service's annual budget of

more than \$110 billion, and serve as acting secretary of the Air Force in Donley's absence. Fanning will also serve as the chief management officer of the Air Force, the senior Air Force energy official, and the focal point for space within Air Force Headquarters.

Fanning served as the deputy under secretary and deputy chief management officer for the Department of the Navy since 2009. Prior to that position, he was deputy director of the Commission on the Prevention of Weapons of Mass Destruction Proliferation and Terrorism. Fanning joined the commission staff from CMG, a strategic communications firm, where he was managing director.

From 2001 to 2006, he was senior vice president

for Strategic Development at Business Executives for National Security, or BENS, a Washington, DC-based think tank, where he was in charge of international programs and all regional office operations in six cities across the country.

Previously, Fanning worked at Robinson, Lerer & Montgomery, another strategic communications firm. He also worked on the national and foreign assignment desks at CBS National News in New York and has held various political positions in Washington, D.C. He was a research assistant with the House Armed Services Committee, a special assistant in the Immediate Office of the Secretary of Defense, and associate director of political affairs at the White House.

SecAF Donley announces departure

WASHINGTON (AFNS) – Secretary of the Air Force Michael Donley has announced his plan to step down June 21 as the Air Force's top civilian after serving for nearly five years.

"It's been an honor and a privilege to serve with our Air Force's great Airmen," Donley said. "Their accomplishments have been nothing short of impressive and I'm humbled to be a part of this team. The Air Force has been a way of life for so much of my career, I know it will be bittersweet to say farewell."

Donley was confirmed as the 22nd secretary of the Air Force Oct. 2, 2008. He



Secretary of the Air Force Michael B. Donley

served as the acting secretary since June of that year, as well as for seven months in 1993, making him the longest serving secretary in the history of the Air Force. He also served as the service's top financial officer from 1989 to 1993.

"Mike has been an in-

valuable adviser during my first two months as Secretary of Defense and has been an outstanding leader of the Air Force for nearly five years," said Secretary of Defense Chuck Hagel. "His leadership came during a challenging time for the Air Force, and he helped instill a culture of responsibility, initiative and professionalism to the service. Mike has been an unwavering champion for our Airmen, their families, and for American airpower. The Air Force he leaves behind is more resilient and more respected because of his leadership and personal dedication."

Though Donley has not

yet announced any future plans, he remains dedicated during his remaining time to supporting the Secretary of Defense in the many challenges that lie ahead for the service.

"In the meantime, there remains much to do," Donley said. "This is an extraordinary and exciting time for our Air Force, filled with both challenges and opportunities. I remain confident that the strength and professionalism of our Airmen, and the commitment and determination of General Welsh, Chief Cody and our military and civilian leadership team, will continue to see us through."

AFMC announces senior leader changes

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Air Force Materiel Command officials announced May 2, 2013, that its executive director, Dr. Steve Butler, will retire effective June 30 after 35 years of service. He will be replaced by Michael Gill, currently executive director of the Air Force Life Cycle Management Center.

Patsy Reeves, currently AFMC's director of contracting, will become AFLCMC's executive director. Butler, Gill and Reeves are all members of the Senior Executive Service.

Prior to Gill's appointment as AFLCMC executive director in July 2012, he was the executive director

of the Odgen Air Logistics Complex (formerly Odgen Air Logistics Center) at Hill Air Force Base, Utah.

Gill's previous assignments include serving as the program manager for the Air Force Contracting and Manufacturing Civilian Career Program, as the director of the TRICARE Regional Office South and as the director of contracting at AFMC. Gill entered the Senior Executive Service in 2001.

Prior to Reeves' appointment as AFMC's director of contracting in April 2011, she was the director of contracting for the Aeronautical Systems Center at Wright Patterson AFB.

Reeves' previous assignments include serving as a

program manager for multiple aircraft training systems, including the C-17; as the director of plans and programs at Brooks AFB, Tex.; and as the director of contracting at the Warner Robins ALC at Robins AFB, Ga. She was appointed to the Senior Executive Service in 2001.

Butler's previous assignments range from developing precision guided weapons to serving in senior advisory roles in the Office of the Secretary of Defense. He served as the deputy program director for the F-22 and the technical director for most of the Air Force's munitions inventory, including the Joint Direct Attack Munition. Prior to his current assignment, he was the executive direc-

tor of Warner Robins ALC. Butler entered the Senior Executive Service in 1997.

AFMC's executive director advises the AFMC commander in managing all aspects of the command's mission, serves as the services contracts advocate and oversees the command's small business program. As the command's senior civilian, the executive director also advises the commander on labor union relations and development of the civilian work force. Civilians make up more than 70 percent of the command – the highest percentage among all Air Force major commands – and AFMC employs 40 percent of the total Air Force civilians.



AEDC supports SBIR project on pyrophoric fuel valve system

By Philip Lorenz III
ATA Public Affairs

A threat to commercial and military aircraft posed by surface-to-air and more recently, air-to-air missiles is being addressed by a collaborative effort between AEDC and Active Signal Technologies, Inc., on a Small Business Innovative Research (SBIR) project on a programmable pyrophoric fuel and valve system.

The objective of the SBIR project is to refine surface-to-air and air-to-

air missile plume simulation with the new system to improve the capabilities of Towed Airborne Plume Simulators (TAPS) to ensure airborne sensors will have the ability to detect and mitigate those threats.

Plume is the missile's exhaust.

"TAPS has been used in the past for Large Aircraft Infrared Counter-Measure (LAIRCIM) system tests [at AEDC]," said Dr. Taylor Swanson, AEDC's space and missiles technology program manager.



Caption for 070522-F-9114G-017: AEDC engineers ran a series of tests on a Towed Airborne Plume Simulator (TAPS) at the U.S. Air Force's Arnold Engineering Development Complex's Rocket Prep Area 4. (Photo by David Housch)

"We have conducted tests on the ground in our RPA4 facility where we have the

high speed fan and also in flight tests out of Naval Air Station Pensacola, Fla."

Swanson said, "We have a very good ability to simulate the threat that we want to, namely, surface-to-air missiles.

However, there are other, newer surface-to-air missiles and air-to-air missiles. In order to make TAPS a better test asset with more realistic threat representation, there are certain things we would like to do to the plume, which we refer to as the missile's signature."

The new pyrophoric fuel valve system, if proven effective, would become an additional test capability at AEDC.

Pyrophoric fuel is comprised of fuels that ignite when exposed to oxygen.

"This is a more representative plume that simulates the infrared signature of a man-portable air defense system

(MANPADS), a shoulder-launched surface-to-air missile weapon," Swanson said. "The overall intensity of the TAPS-generated plume throughout the 'missile's trajectory,' from launch to target acquisition, is controlled by varying the flow rate of the fuel.

"If this new pyrophoric fuel valve allows us to modulate that plume signature over a wider dynamic range – we could go brighter or we could go dimmer and we can modulate that very quickly, what we term frequency content – if this new valve works as planned, TAPS would then be an even more useful test asset."

Team America Rocket Challenge High School Team presentation and rocket launch promotes STEM



Winfree Bryant Middle School Team America Rocket Challenge (TARC) Team members, left to right, hold a check for \$1,000, presented by Debbie Bayer, ATA deputy director of information technology and systems department, and Lynn Moran, ATA deputy director of test assets and support department. The TARC Team, which has been sponsored by Air Force STEM and ATA, was recognized for being selected as the only TARC team from Tenn. to compete in the National Championships on May 11. The team also launched a rocket while on base. (Photos by Jacqueline Cowan)



AEDC Commander Col. Raymond Toth presents the TARC team with the AEDC Science, Technology, Engineering and Mathematics (STEM) coin.



TARC team members stand back after setting up a rocket for launch during their recent visit to AEDC.



Winfree Bryant Middle School Team America Rocket Challenge (TARC) Team members tour the Large Rocket Motor Test Facility, J-6.

Affordability remains a priority for F-35

By Jim Garamone
American Forces Press Service

WASHINGTON (AFPS) – Affordability remains the priority for the F-35 Lightning II joint strike fighter, the Pentagon's program executive officer for the Defense Department's most expensive procurement told Congress recently.

Air Force Lt. Gen. Christopher C. Bogdan told the Senate Armed Services Committee's airland subcommittee that the program has made progress, but he acknowledged it is enormously complicated and has a ways to go.

Sequestration complicates the acquisition as well, the general said.

"We must use all our energy finishing development within the time and money we have, we must continue to drive the cost of producing F-35s down, and we must start today to attack the long-term life cycle costs of the F-35 weapon system," Bogdan said in prepared testimony.

The F-35 comes in three variants and is being used by the Air Force, Navy and Marine Corps. In addition, it will form the backbone of allied nations' airpower for decades to come, the general said. He called it a "dominant, multirole, fifth-generation aircraft."

The fiscal year 2014 budget request includes \$8.4 billion for continued system development, testing and procurement of 29 F-35 aircraft.

Twenty-nine F-35s are deployed in operational and training squadrons at three locations. The program is shifting from development to production and long-term sustainment.

F-35s flew 1,984 sorties for a total of 3,118 hours in



Crew chiefs from the 57th Wing Lightning Aircraft Maintenance Unit marshal an F-35 Lightning II at Nellis Air Force Base, Nev.. (U.S. Air Force photo/Lawrence Crespo)

2012. Officials tested launching weapons from two of the variants last year and stood up the first operational F-35B Marine Corps squadron in Yuma Marine Corps Air Station, Ariz.

Sequestration has the potential either to stretch the development program out or reduce the capabilities warfighters can get, he said. Sequestration cuts funds for the program meaning development will be stretched out, causing the program to cost more in the long run. This will have impacts on international partners, he said.

"The increases may result in reduction of their aircraft quantities, which would, in turn, increase unit costs even more and cause them to relook their commitment to the program," Bogdan said.

Furloughs of civilian workers "will have immediate negative consequences," he added. It would cause a reduction in testing and could reduce productivity by a third, he explained.

Bogdan stressed that the basic aircraft design is sound.

"While there is still risk to the program, I have confidence in the resilience of the plan to absorb expected further learning and discovery, and stay on track, so long as it remains properly resourced," he said.

ATA unveils redesigned website

The ATA website (<http://www.aerospacetestingalliance.com/>) has been redesigned and is now live. The ATA website is an important way for ATA to have a company identity separate from AEDC's official public website. All content is publicly releasable and provides a way for you to share insight into the company with family members and friends. The improved site will include information on facilities and projects, photos from employee socials, recognition and service awards and highlights of ATA's involvement in the community. The site has also been designed for co-op and intern students and other prospective employees as well as vendors to utilize when looking for information on ATA, online applications and business contacts.

MY STRENGTH IS FOR DEFENDING
AEDC Victim Advocates Hotline:
(931) 581-7494

Preventing Sexual Assault is part of our duty

Team AEDC supports annual Special Olympics event



Marcus Conner, with AEDC's Technology Branch, holds the torch for the opening of the annual Special Olympics Area #13 Summer Games after receiving it from Lincoln County's torch bearer and an event participant, in yellow. Connor, who is also the president of AEDC's Junior Force Council, helped coordinate the Special Olympics this year. Torch runners into the stadium are from the Manchester and Tullahoma Police Department. (Photos by Jacqueline Cowan)



AEDC Commander Col. Raymond Toth pins a second place award on the shirt of one of the competitors in the annual Special Olympics Area #13 Summer Games at Tullahoma High School Wilkins Stadium.



AEDC's Misty Layne, an ATA information technology specialist, pins a first place award on a participant's shirt during the annual Special Olympics summer event.



AEDC quarterly award winners announced



Capt. Sarah Kress
Company Grade Officer

Kress was recognized for her outstanding leadership and job performance in the Staff Judge Advocate office as well as other various AEDC departments.



Master Sgt. Randall Lusk
Senior Non-Commissioned Officer

Lusk was recognized for excellent leadership and job performance in the Integration and Support Branch of safety and reliability compliance.



Leslie McGowan
Civilian of the Quarter
Clerical/Technical Support

McGowan was recognized for her exceptional performance in managing several projects with precision and attention to detail.



Vince Chapman
Civilian of the Quarter
Administrative

Chapman was recognized for his professional leadership, coordination and research in the Precision Measurement Equipment Laboratory.



Robert Merrill
Civilian of the Quarter
Scientist/Engineer

Merrill was recognized for outstanding leadership, vision and problem solving for multiple test projects in the Propulsion Wind tunnel Test facilities.



Christy Moss
Employee of the Quarter
Category I

Moss, a Café 100 employee, was recognized for her outstanding performance contributed to the services of Café 100.



Karen Schell
Employee of the Quarter
Category II

Schell, a Non-Appropriated Funds Human Resources employee, was recognized for excellent work ethic in support of AEDC.

May wins People's Choice Award

Maurice May, an engineer in the Test Technology Branch, was selected for the William M. Dunne People's Choice Award.

He was recognized for exceptional support to AEDC technology development and customers developing and demonstrating new diagnostics and aeropropulsion technologies.

He is also recognized for his unparalleled dedication and unwavering support to the J85 testing activities.

He provided outstanding support of the Small Business Innovative Research (SBIR) program and served as a technical point of contact on assorted SBIR efforts and mentored



May

young civilians into SBIR roles.

He contributed excellent support to Air Force Test Center request for technical information and constantly volunteers to take the lead on new tasks.

AFMC Airman of the Quarter 4th Quarter 2012



Senior Airman Eric Ball

ATA quarterly award winners

Team Member of the Quarter

The ATA Team Member of the Quarter is Mickey Gipson.

Gipson, a controls engineer in the Information Technology and Systems Department, was recognized for excellence in program management. He was cited as demonstrating outstanding technical leadership while performing duties as the Information Technology System Development Manager and senior controls engineer for the J-6 Solid Rocket Test Facility control system.

Gipson's contributions was also cited as delivering a state-of-the-art facility control system for rocket testing that will help sustain the operability, maintainability and viability of a national asset.



Gipson

Craft Team Member of the Quarter

The ATA Craft Team Member of the Quarter is Chris Sloan.

Sloan, an HVAC shop working foreman in the Mission Support Department, was recognized for outstanding performance in maintenance and repair of all AEDC HVAC systems.

He is also recognized for his excellent leadership on the J-6 Solid Rocket Test Facility cooling system reactivation project. The repairs were completed ahead of schedule with no impact to testing.

Sloan was cited for his work productivity, technical knowledge and skills and great communications which contributed to a successful project.

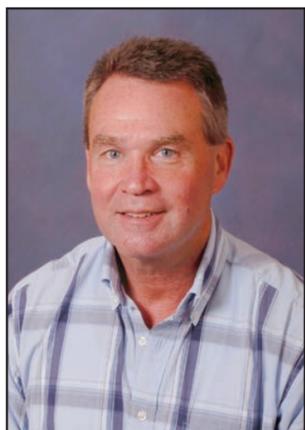


Sloan



Marilyn Graves
Team Member
Test Assets and Support

Graves was recognized for exceptional funding project management in upgrades to the von Karman Gas Dynamics Facility plant controls.



Kelly Hollowell
Team Member
Test Assets and Support

Hollowell was recognized for exceptional program management, experience and knowledge in the Engine Test Facility hydraulic systems and control valve systems.



Morgan Underwood
Team Member and Customer Service Excellence (Internal)
Information Technology and Systems

Underwood was recognized for excellent leadership in support of an Air Force Intelligence, Surveillance and Reconnaissance Agency inspection.



Daniel Warren
Team Member
Mission Support

Warren was recognized for displaying outstanding performance, safety focus, engineering analysis and dedication as well as excellent communication skills.



Connie Rogers
Team Member
Mission Support

Rogers was recognized for excellent administrative support in the Distribution Management section and her willingness to support assignments outside her normal duties.

Milestones

30 YEARS

Keely Beale, ATA
Joseph Boyer, ATA
Stevy Garner, ATA
Steven Hise, ATA
David Presley, ATA

25 YEARS

Mark Rigney, ATA
Stevie Sullivan, ATA
Mary West, ATA

20 YEARS

Peggy Glass, ATA
Alan Swann, ATA

15 YEARS

Russell Austin, ATA

10 YEARS

Neil Aukeman, ATA
Timothy Brown, ATA
Michael Cowan, ATA
James Crawford, Jr., ATA
Karen Morris, ATA
Thomas Northcott, ATA
Robert Park, ATA
Stephen Passarello, AF
Vincent Pitts, AF
Fred Rojas, AF
Norman Smith, ATA

David Stanek, ATA
Samuel Stewart, ATA
Kenneth Taylor, ATA
Richard, Taylor, ATA
Timothy Taylor, ATA

5 YEARS

Deborah Cantrell, ATA
Jeffrey Youngblood, ATA

INBOUND MILITARY

SSgt Thomas Starling, AF

RETIREMENTS

Gary Beck, ATA

Laurence Campbell, ATA
Winston Howell, ATA
Philip Jones, ATA
Brenda Reed, Premiere
William Sickles, ATA
Debbie Taylor, Premiere
Robert Thomison, Premiere

NEW HIRES

Valerie Stacey, AF

PROMOTIONS

Mark Brandon, ATA
Marcheta Darnell, ATA
Steven Underwood, ATA



ATA quarterly award winners



Jeff Holt
Team Member
Performance Management

Holt was recognized for his excellent support to the AEDC mission through thorough research and analysis of proposed testing alternatives.



Paul Wright
Team Member
Integrated Test and Evaluation

Wright was recognized for demonstrating superior knowledge and professionalism in project management relating to data validation and analysis.



Teresa Butler
Team Member
Integrated Test and Evaluation

Butler was recognized for displaying excellent administrative skills and customer focus for the Aerodynamics and Propulsion Test Unit facility.



Mickey Cowan
Craft Team Member
Test Assets and Support

Cowan was recognized for outstanding test model fabrication support and ensuring excellent customer satisfaction with each phase of work.



Ashley Dement
Craft Team Member
Test Assets and Support

Dement was recognized for outstanding work ethic exhibited during disassembly, inspection and assembly of motors in the Propulsion Wind Tunnel facility.



Fred Allen Zimmerman
Craft Team Member
Mission Support

Zimmerman was recognized for outstanding management of a training program and dedication to saving lives and protecting AEDC's unique assets.



Derek Ray
Craft Team Member
Integrated Test and Evaluation

Ray was recognized for exhibiting excellent job performance and suggestions for continually improving fabrication and installation processes.



Sarah Toll
Customer Service Excellence (External)
Information Technology and Systems

Toll was recognized for excellence in proficient and knowledgeable instrument technician security assistance for an Air Force Research Laboratory customer.



Robert Baltz
Customer Service Excellence (External)
Integrated Test and Evaluation

Baltz is recognized for his outstanding technical support in meeting all GE requirements for advanced augmentor testing.



Pam Limbaugh
Customer Service Excellence (Internal)
Test Assets and Support

Limbaugh was recognized for her exceptional processes in managing the cost transfer system in the Test Asset Services and Missions Support departments.



Doolittle Raiders greet, inspire Hurlburt Field Airmen

By Senior Airman Joe McFadden
1st Special Operations Wing Public Affairs

HURLBURT FIELD, Fla. (AFNS) – Three Air Force legends spoke to dozens of Airmen April 18 here, marking the 71st anniversary of when they and their fellow Airmen turned the tide of the U.S. war effort. The visit also marked the last public reunion of the Doolittle Raiders.

Retired Lt. Col. Richard Cole and Edward Saylor and former Staff Sgt. David Thatcher served alongside 77 fellow U.S. Army Air Corps Airmen taking off in 16 B-25s in the April 18, 1942, bombing over Japan known as the Doolittle Raid.

The raid, designed and led by then Lt. Col. James Doolittle, served as the first air raid by the U.S. military in response to the Dec. 7, 1941, Japanese attack on Pearl Harbor, while both bolstering the morale of the American public and instilling doubt among the Japanese people.

"This is a once-in-a-lifetime opportunity," said Col. William Holt, vice commander of the 1st Special Operations Wing, before introducing the Raiders. "In my 22 years in the Air Force, I never imagined I'd be standing in front of three Doolittle Raiders. Without a doubt, this is the highest honor I've had."

After the three Raiders entered the squadron through a sword cordon from the Hurlburt Field Honor Guard, the Airmen in the audience opened the discussion by asking questions about their memories and impression of the raid's chief architect.

"Colonel Doolittle was

a very persuasive individual," said Cole, who also served as his co-pilot on the lead aircraft. "He was very charming. He treated everyone with respect and was very polite. He was a team person, and it vibrated throughout all 80 people."

Cole also described Doolittle's dedication to his Airmen as a testament to his leadership.

"Outside of being in awe of him and being able to fly with him, we observed the way he treated his people," he said. "For instance, he would go to an air base and would not leave the airplane until the crew chief had finished gassing it up and doing the things that needed to be done. He'd make sure the crew chiefs were taken to their barracks before he was taken to his. It indicated to me that he treats his people in a very, very polite way."

Prior to leaving the continental U.S., the Raiders spent a portion of the training for the mission at what is now Eglin Air Force Base, Fla., for three weeks of intensive training in March 1942. Given the base's proximity to the water, one Airman asked if the three had any downtime to enjoy the Emerald Coast.

"We did not receive any time off," Cole said. "We were based in quarters and not allowed to go off the base."

The questions then turned to how the Raiders personally prepared for the mission – an element the team said they had little time to react to but enough resolve to ultimately see it through.

"When they presented



Retired Lt. Col. Edward Saylor, one of the Doolittle Raiders (right) makes a point about military service during a session at the 319th Special Operations Squadron auditorium April 18, at Hurlburt Field, Fla. Dozens of Hurlburt Field Airmen gathered at the auditorium to listen to Saylor and his fellow Doolittle Raiders on the 71st anniversary of their mission. (U.S. Air Force photo/Airman 1st Class Hayden K. Hyatt)

the request for volunteers, we were given no information other than it was a dangerous mission," Cole said. "We were practicing takeoffs and so forth. It was very obvious we were going to takeoff from a carrier. We thought we were being transported to some place with a different carrier so we could takeoff and go to an island some place in the Pacific and land and start fighting the war."

"When they announced over the loudspeaker our target was Japan, there was a huge shock that went all over the carrier," said Thatcher, who served as an engineer and gunner in the raid. "No one knew where we were supposed to go, especially the Navy personnel."

"We all volunteered, and I went not knowing what it was," said Saylor, then an engineer. "My feeling was that I hope I could do the job as well as it needed to

be done. The responsibility of the airplane was very heavy on my mind. That's how I felt about going in – I hope I could do the job."

The air raid stormed over the Japanese island of Honshu, with none of the U.S. aircraft being gunned down. While heading across the East China Sea, the Raiders faced harsh conditions both during the flight and in their crash landings in China and the then-Soviet Union, especially under the threat of possible capture by enemy forces.

"I would advise any to be prepared as much as possible for any situation," Thatcher said. "We were in a situation we didn't have any control over. We crash landed on a Japanese-occupied island. There were no Japanese there at the time, and the Chinese Underground who was working on that island helped us escape."

News of the raid's suc-

cess quickly reached American news outlets, rejuvenating the country's morale for the budding war effort. However, the Raiders said many did not know of their reception in their homeland until years later.

"When I came home, the sense that the whole country was gung-ho to get on with the job – it was a pretty good feeling," Saylor said.

Shortly after the raid's completion, Doolittle, who had been promoted to brigadier general and received the Medal of Honor from President Franklin D. Roosevelt, had the idea for a reunion among all the surviving Raiders, Cole said.

"Each day after the mission was over (Doolittle) said he was going to throw a party like one we'd never been to before," Cole said. "In 1945, the first party was at McFadden-Deauville Hotel in Miami. The people who were able to come

came to it. The party grew to talking and conversations, and somebody suggested 'Why don't we do this every year?' And then Doolittle said 'Wait a minute, fellas – I'm paying out a lot of money here!'"

Eventually, the reunions led to visiting bases and cities throughout the country. The gatherings soon began awarding out Traffic Safety Awards and recognition to deserving Airmen and later evolved into providing scholarships for local students beginning in 1962, Cole said.

As the session came to a close and the Raiders prepared for their final reunion weekend in Fort Walton Beach, Fla., Saylor concluded by giving his endorsement of the men and women who followed in their footsteps by serving in the Air Force today.

"I look this gang over, and I think we're in good hands," Saylor said. "I want to make sure we give you guys everything you need to get the job done. I'm hopeful."

Cole, an Ohio native, enlisted in the Army Air Corps in November 1940 and received his pilot's commission in July 1941.

After serving in the Doolittle Raid, he continued to serve in the Burma-Indo-China theater as one of the original Air Commandos. He is the recipient of Distinguished Flying Cross with two oak leaf clusters, Air Medal with one oak leaf cluster, Bronze Star Medal, Air Force Commendation Medal and Chinese Army, Navy, Air Corps Medal, Class A, 1st Grade.

Saylor graduated high

See RAIDERS, page 14

Through Airmen's Eyes: The return and walk toward flight

By Airman 1st Class Michelle Vickers
1st Special Operations Wing Public Affairs

HURLBURT FIELD, Fla. (AFNS) – There's a saying – "a journey begins with a single step."

For a flight engineer assigned to the 8th Special Operations Squadron here, even a single step seemed like a lofty goal at one time.

After Tech. Sgt. Christofer Curtis' CV-22 Osprey crashed during a mission in Afghanistan in April 2010, he was left with numerous serious injuries and uncertainty surrounding whether he would walk again.

Now, almost three years to the date of his crash, he has returned to the sky.

"We crashed and lost the aircraft, but more importantly lost four individuals along with it," Curtis said. "Since then, I've obviously been on the road to recovery. Seventeen broken bones will do that to you."

After being evacuated from the battlefield to Landstuhl Regional Medi-

cal Center, Germany, Curtis was airlifted to then-Walter Reed Army Medical Center, Md., where he awoke from a coma. From the beginning of his recovery, Curtis said he decided not only would he walk again, but he would walk through the doors of his squadron.

"I was in the surgical intensive care unit when someone asked me, 'Are you going to get back up again?'" Curtis said. "I said, 'Not only am I going to get back up – goal number one (is) to walk through my squadron's doors.' I did happen to accomplish that the same year, October 2010. Then they asked, 'What's your second goal?' And my second goal was literally today, it was to fly again."

Curtis said his natural mental resiliency was further strengthened by the encouragement he received from visitors and other wounded warriors while in

the hospital.

"I had a lot of folks at Walter Reed come in to visit me and share their experiences of the do's and do not's of getting better, and I've learned to basically just stay positive," Curtis said. "Staying positive not only will it help you mentally, it will help you physically."

After leaving WRAMC, Curtis was sent on to Brooks Army Medical Center in San Antonio, Texas, for the next almost year-long stage of his recovery. His physical resiliency was refined as he received therapy to help him achieve milestones, like being able to prepare his own meals. Now, reflecting back on the countless hours of physical therapy, the result was worth it.

"I feel great, but at the same time I do feel remnants of that pain," Curtis said.

The care providers, therapy he received and even comments from naysayers were integral to his recovery, he said. "Without them I wouldn't even be close to here."

Once back at Hurlburt Field, Curtis worked with his unit to determine if he was physically capable of returning to his job as a flight engineer responsible for maintaining the health of the CV-22 during flight. As he geared up for his first training flight, there were no visible jitters, just a



Tech. Sgt. Christofer Curtis, a CV-22 flight engineer of the 8th Special Operations Squadron, poses in a CV-22 on the flight line at Hurlburt Field, Fla., April 6, 2012. Curtis returned to active duty after recovering from injuries sustained during a deployment. (U.S. Air Force photo/Airman 1st Class Gustavo Castillo)

slight stumble with putting on a new type of harness, the only indication Curtis had spent any time away from flying.

"I just did what I normally do, what I remembered normally doing, which is just getting up and thinking about the mission and my role, everything the Air Force taught me," Curtis said describing his preflight preparations.

While some questioned Curtis' drive and dedication to return to his job, his mental strength helped him push aside any doubts.

"I felt (in my) body and mind this is where I need to

be and what I need to do," Curtis said.

After the flight, though Curtis had yet to hear his instructor's evaluations of his performance, both were all smiles.

"It isn't just me getting in the air," Curtis said post-flight. "It's saying that I've made it this far physically, and mentally, as a bigger success. Flying, in the end, is something I always loved and will continue to do. I won't ever forget the path it took and the people I've met to get to this point."

Now in the position to pay it forward by relaying advice to other wounded

warriors, Curtis offers what helped him most to get through his own challenges.

"Continue to stay positive and establish challenging but attainable goals," Curtis said. "More importantly, understand that you will have good days and bad days, but stay the course as it will pay off in the end."

On the road to regaining his flight qualifications, Curtis now looks forward to the normalcy of returning to the job he loves. Next on his radar: being assigned as part of aircrew charged with accepting new aircraft for the Air Force.

RAIDERS from page 13

school in Montana and enlisted Dec. 7, 1939. He served both in the United States and overseas throughout the war until March 1945. He accepted a commission as an aircraft maintenance officer in October

1947. He is the recipient of Distinguished Flying Cross, Air Force Commendation Medal and the Chinese Army, Navy, and Air Corps Medal, Class A, 1st Grade.

Thatcher graduated high school and enlisted in De-

cember 1940. After the raid, he served in England, Africa and California before being discharged from active duty in July 1945.

He is the recipient of the Silver Star Medal, Distinguished Flying Cross, Air

Medal with four oak leaf clusters and the Chinese Army, Navy, and Air Corps Medal, Class A, 1st Grade.

All three Raiders were present for their final reunion parade in Fort Walton Beach April 20.

**Arnold Golf Course (GC)
454-GOLF 454-FOOD**

Check us out on Facebook! Arnold AFB Services Golf Course

The **Commander's Season Opener** will be a four-person scramble May 18 with an 8 a.m. shotgun start. Entry fee is \$25 per player and includes cart and lunch. Sign up by May 11.

2013 Tournament Schedule

May 11 – Two-Person Triple Play Tournament

May 18 – Commander's Season Opener

June 22-23 – Member-Guest Tournament

July 20-21 – Arnold Tri-City Open Championship

Aug. 24-25 – Club Championship

Sept. 5 – AEDC Golf League Awards Banquet

Sept. 19 – Thursday Night Scramble Ends

Sept. 21 – Member Member Tournament

Oct. 5 – Season Ending Tournament

A **Two-Person Triple Play Tournament** will be held May 11 beginning with 8 a.m. shotgun start. Play will include 27 holes – 9 holes each played as best ball, alternate shot and scramble format. Flighted into A and B flights determined upon number of entries. Prizes will be awarded for top players along with two closest to the pin prizes. Cost is \$60 per team for annual green fee players. Additional \$10 green fee and \$12 cart fee for others. Deadline to sign up is May 9.

A two-person scramble **Member Guest Tournament** will be held June 22-23 with 8 a.m. shotgun start both days. Cost is \$125 per team and is all inclusive with lunch after Sunday's round. Sign up in the Pro Shop by June 15.

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 (ALC)
454-3350**

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

Arnold Lakeside Center welcomes back **Pretty Discoveries** for a **jewelry fair** May 10 in the A&E building, Café 100, from 8 a.m. to 2 p.m. All jewelry prices are below \$20. Other accessories may be available such as belts, handbags and jeans.

Introductory to Hula Hooping will be held May 11 at 10 a.m. All ages and skill levels are welcome. Single and double hula hooping demonstrations and instruction will be held. The class will be held outside, weather permitting. A limited number of hula hoops will be provided and you may bring your own if you want. There are no sign ups required and no fees involved, so come on out for some fun on a Saturday morning at the ALC.

Arnold Lakeside Center will have a **Mother's Day Brunch** May 12 from 11 a.m. to 2 p.m. The menu will include scrambled eggs, bacon, sausage, French toast with syrup, salad bar, boneless pork chop or grilled chicken tenderloin, pinto beans, mashed potatoes, gravy, roll, apple or peach cobbler, orange or apple juice, tea and one complimentary Mimosa beverage. Cost is \$14 for members, \$16 for non-members and \$9 for ages 3-10. Call 454-3350 for reservations by May 7. All mothers attending will receive a rose.

ALC Dart Tournament begins June 21

Arnold Lakeside Center will host a Dart Tournament in The Landing consisting of 301 and Cricket to be played once a month beginning June 21 and ending Oct. 18 with a championship finale. There will be two single elimination tournaments from 6-9 p.m. each night – June 21, July 19, Aug. 23 and Sept. 20 – following American Darts Organization rules.

Players may enter both the 301 and Cricket tournaments. There will be a continuing points system with point totals going toward the final seeding for the championship tournament to be held Oct.

18. Points will be as follows: 1st place – 8 points, 2nd place – 7 points, 3rd – 6 points, 4th – 5 points, 5th – 4 points, 6th – 3 points, 7th – 2 points and 8th – 1 point. Services Bucks will be awarded to 1st and 2nd place finishers in each monthly tournament.

The championship winners will receive a set of darts. If the same person wins both championships then the two second place finishers will have a playoff to determine the other champion. This event is for ages 18 and up. Darts will be provided or players may bring their own ADO regulations darts.



ALC and ODR Fishing Rodeo set for June 22 at Crockett Cove



Arnold Lakeside Center and Outdoor Recreation have joined together to bring you the 2013 Fishing Rodeo at Crockett Cove. Things get underway at 2:30 p.m. June 22 with the official check in. Fishing will begin at 3 p.m. with a shotgun start so that all participants start with an equal advantage. No one will be allowed to select their fishing spot or claim their area until the shotgun sounds.

This event is free and registration is encouraged to ensure there are enough door prizes for everyone. Additionally, the first 30 to register at 454-3350 will receive a rod and reel. There will be four age groups (5-7, 8-10, 11-12, 13-15) with 1st, 2nd and 3rd place prizes awarded in each along with an overall prize for longest fish. Prizes in each age group are based on total length of

fish caught. Every fish caught must be measured by an official scorer on the participant's score card.

Fishing will be allowed from the designated Crockett Cove shoreline using any bait or lure. Fishing will last until 4:30 p.m. at which time all tally sheets will be collected and tabulated. During the results processing Outdoor Rec will conduct a casting contest where participants will cast a bobber into a hula hoop. A prize will be given to the casting champion.

Other awards and door prizes will be presented upon completion of the casting contest. Outdoor Rec will also provide bounce houses from 2:30-5:30 p.m. for everyone's enjoyment throughout the afternoon. All participants are required to bring their own fishing equipment, bait, chairs, snacks, etc. Bottled water will be provided.

Membership Night features \$1 Cook Your Own Steak June 29

Arnold Lakeside Center will have a membership night June 29 from 5-9 p.m. where guests will select their steak, add their own variety of seasonings from a selection provided, and then grill it themselves. The grill will be setup by the covered patio and guests may dine on the patio or take their steak back inside to the dining room.

The meal includes sirloin steak, baked potato, corn-on-the-cob, salad and roll. There will be a hamburger steak option for kids. Cost for Members First Plus members and their immediate family is only \$1 per person (.50 cents for kids' hamburger steak). Cost for nonmembers



is \$14 and \$8 for age 12 and under.

Cornhole and volleyball will be available for your enjoyment.

Sign up by June 18 by calling 454-3350. Open dining is available in the Four Seasons Room and in The Landing.

Military Spouse Appreciation "Tour Services" program offered in May

Services is recognizing active duty military spouses with a "Tour Services" program, including free goods/services and a chance to win \$50 in Services Bucks. All active duty Air Force military spouses assigned to Arnold received a package in the mail containing their "Tour Services" passport and information explaining the program. During the month of May, military spouses visit five Services facilities and participate in a specified activity to receive a stamp in their passport. These include Arnold Golf Course free 18 holes plus cart for two, Arnold Lakeside Center free dinner for two, Café 100 either free breakfast or lunch for

two, Outdoor Recreation free tandem kayak rental for the day (may substitute another rental of equal value) and Fitness Center group class. Once the passport is complete, redeem at the Services Marketing office for \$50 in Services Bucks to be used anywhere in Services. Incentives will be given at each facility as you get your passport stamps. This trip around Services is our way of saying thank you for being there to support your military spouse. Active duty spouses of all branches are eligible to participate. Contact Services Marketing at 454-3128 or 454-3415 to obtain your passport package or for more information.

Golden Baton Relay set for June 19

The Fitness Center will host the Golden Baton Relay June 19 beginning at 8 a.m. in front of the A&E Building.

Each team runner must complete two laps around the A&E Circle before passing the baton to the next runner. Teams must consist of four runners with a combined total age of at least 120 and one time-keeper. Teams may select appropriate and tasteful ways to distinguish themselves and may bring their own baton or use batons provided by the Fitness Center.

The first six teams to sign up will receive event t-shirts. Prizes will also be given for the most clever team name, best team costumes and overall team speed. Call 454-6440 to sign up or for more details.

Brushes and Bottles Painting Party continues at GLC



Arnold Lakeside Center's new monthly program **Brushes and Bottles** will be held 6-8 p.m. at the GLC June 14.

Bring your favorite beverage and get ready to get creative as an instructor will lead you through a canvas painting work of art step-by-step. By the end of the evening you will have your own masterpiece to take home.

These painting parties are for all skill levels ages 21 and over with a cost of only \$25 per person. All paint, brushes, aprons, easels, canvas and other necessary materials will be provided.

All you have to bring is your beverage of choice. Light snacks will be provided and other beverages will be available for purchase. Deadline to sign up for this event is June 11 and class size is a maximum of 15. May 7 is the deadline to sign up for the May 10 class.

Call 454-3350 to sign up or for more information.

Books Are Fun is back June 4

Books Are Fun is back for a book fair from 9:30 a.m. – 3 p.m. June 4 in the A&E Building's Café 100. Discounted selections include paperbacks, best sellers, educational, reference, cookbooks, children's items, gift selections and more. Save up to 70 percent off retail prices.



Horizon is a Services Division publication designed to inform our customers of events and specials in Services Division activities. All program dates, times and prices are subject to change. Services Division mailing address is at 100 Kindel Drive, Suite C321, Arnold AFB, Tenn. 37389-3321

Services information written and provided by Tanya Bryan

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Services Division Phone Numbers

Area code 931 DSN 340
 Services Chief – 454-7779
 Services Deputy – 454-5915
 Community Services Flight Chief – 454-4062
 Complex Manager – 454-3367
 Arnold Lakeside Center (ALC) – 454-3350
 Arnold Lakeside Center catering – 454-3350
 Hap's Pizza – 454-5555

Café 100 – 454-5885
 Membership Information – 454-3367
 Information, Tickets & Travel – 454-3303
 Barber Shop – 454-6987
 Gossick Leadership Center – 454-4003
 Human Resources – 454-5481
 Marketing & Sponsorship – 454-3128
 Recycling – 454-6068

Wingo Inn – 454-3051
 Fitness Center (FC) – 454-6440
 Golf Course (GC) – 454-GOLF (4653)
 Mulligan's Coffee Bar and Grill - 454-FOOD (3663)
 Outdoor Recreation (ODR) – 454-6084
 includes Marina, FamCamp,
 Crockett Cove &
 Dogwood Ridge

June 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	2013 Member Scholarship entries due to Services Marketing July 1					1
	2	3	4	5	6	7
	<p>FC Boot Camp 6 a.m. FC Yoga 11 a.m. FC Cycling Class 11 a.m.</p>	<p>ALC Book Fair, Café 100, 9:30 a.m. – 3 p.m. FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m.</p>	<p>FC Boot Camp 6 a.m. ALC Café 100 BBQ lunch special \$6 FC Yoga 11 a.m.</p>	<p>FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m. ALC Movie Night "Oz the Great and Powerful" PG 6:30 p.m. dinner available 5-8 p.m.</p>	<p>FC Boot Camp 6 a.m. FC Yoga 11 a.m. ALC First Friday Jam 6 p.m.</p>	<p>ODR Archery Basics Class, 9 a.m., \$5, sign up by June 7, 454-6084 ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084 ODR FamCamp Guests free movie, "Parental Guidance", PG, 7:30 p.m.</p>
9	10	11	12	13	14	15
	<p>FC Boot Camp 6 a.m. FC Yoga 11 a.m. FC Cycling Class 11 a.m.</p>	<p>FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m.</p>	<p>FC Boot Camp 6 a.m. ALC Café 100 BBQ lunch special \$6 FC Yoga 11 a.m.</p>	<p>FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m. ALC Movie Night "Jack the Giant Slayer" PG-13 6:30 p.m. dinner available 5-8 p.m.</p>	<p>FC Boot Camp 6 a.m. FC Yoga 11 a.m. ALC Brushes and Bottles, \$25, 6-8 p.m., sign up by June 11, 454-3350</p>	<p>ODR Kayaking for Beginners Class, 9 a.m., \$10, sign up by June 14 ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084</p>
16	17	18	19	20	21	22
	<p>FC Boot Camp 6 a.m. FC Yoga 11 a.m. FC Cycling Class 11 a.m.</p>	<p>FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m.</p>	<p>FC Boot Camp 6 a.m. FC Golden Baton Relay, 8 a.m. ALC Café 100 BBQ lunch special \$6 FC Yoga 11 a.m.</p>	<p>FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m. ALC Movie Night "Snitch" PG-13 6:30 p.m. dinner available 5-8 p.m.</p>	<p>FC Boot Camp 6 a.m. FC Yoga 11 a.m. ALC Dart Tournament begins, 6-9 p.m., 301 & Cricket, monthly prizes, Oct. championship with grand prize</p>	<p>GC Member Guest Tournament, \$125/team, 454-GOLF ODR Intro to Hiking Class, 9 a.m., \$10, 454-6084 ODR Paintball, 9:30 a.m., \$35, 454-6084 ALC/ODR Fishing Rodeo, 2:30 p.m., Crockett Cove, ages 5-15, 454-3350 ODR FamCamp movie, "The Hobbit", 7:30 p.m.</p>
23	24	25	26	27	28	29
	<p>FC Boot Camp 6 a.m. FC Yoga 11 a.m. FC Cycling Class 11 a.m.</p>	<p>FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m.</p>	<p>FC Boot Camp 6 a.m. ALC Café 100 BBQ lunch special \$6 FC Yoga 11 a.m.</p>	<p>FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m. ALC Movie Night selection not available at time of publication, call 454-3350 or 454-3128 for schedule, 6:30 p.m. dinner available 5-8 p.m.</p>	<p>FC Boot Camp 6 a.m. FC Yoga 11 a.m. ALC Last Friday Trivia 6:30 p.m.</p>	<p>ODR Kayaking for Beginners Class, 9 a.m., \$10, sign up by June 28 ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084 ALC Membership Night \$1 Cook Your Own Steak, 5-9 p.m., \$14 non, sign up by June 18, 454-3350</p>

Hours of operation

Arnold Lakeside Center: Catering/Management offices by appointment. Operations Clerk Tuesday, Thursday and Friday 7:30 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.
Information, Tickets & Travel (ITT): Tuesday through Friday 10 a.m. – 3 p.m.
Café 100: Monday through Friday 6:30 a.m. – 1:30 p.m. **Closed May 27**
Barber Shop: by appointment – Monday, Tuesday, Thursday & Friday 8 a.m. – 4 p.m. **Closed May 27**
GLC (office located at Arnold Lakeside Center): Monday through Friday 7 a.m. – 3:30 p.m. May vary depending on bookings.
Outdoor Rec: Tuesday through Sunday 8 a.m. – 6 p.m.
Fitness Center: Monday-Friday 5 a.m.-7:30 p.m.; Saturday 8 a.m.-1 p.m.; Sunday Closed. **Open 8 a.m. – 1 p.m. May 27, no classes**
Arnold Golf Course: Pro Shop & Driving Range 7 a.m. – dusk. Driving Range open 24 hours with prepurchased 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.
Recycling: Monday through Friday 7 a.m. – 4 p.m.
Wingo Inn: Monday through Friday 7 a.m. – 6 p.m., Saturday and Sunday 8 a.m. – 4 p.m.
Non-appropriated Funds Human Resources: Monday through Friday 7:30 a.m. – 4 p.m. **Closed May 27**

BX/Commissary customer eligibility

AEDC government civilian and AEDC contractor employees have access to the following limited items at the base exchange (BX): consumable items including toiletries and over-the-counter pharmaceuticals, food items such as candy, chips, little meal items, hot dogs and soft drinks. Alcohol and cigarettes are not included as consumable items. However, only active duty and retired uniformed services personnel and their dependents are eligible to use the base commissary next to the BX. The commissary hours of operation: Tuesday, Wednesday and Friday 9 a.m.-5:30 p.m., Thursday 9 a.m.-6:30 p.m. and Saturday 8 a.m.-4:30 p.m. The BX hours of operation: Tuesday through Friday 9 a.m.-5:30 p.m., and Saturday 8 a.m.-4:30 p.m. For more information contact Christopher Floden, BX manager, at (931) 454-7153 or Patrick Jordan, Commissary manager, at (931) 454-5921.

AAFES Dividends

Dividends generated from the Army and Air Force Exchange Service (AAFES) overall earnings are a major contributor to Services non-appropriated fund (NAF) construction and renovation projects as well as equipment purchases. Services would like to thank all AAFES customers for their support. Dividends received for April 2013 totaled \$4,707.91.

BRIEFS from page H1

Arnold Lakeside Center (ALC) 454-3350

Arnold Lakeside Center will have **limited or no dining** on the following days:

- May 18 full menu available in The Landing
- May 24 full menu available in The Landing
- May 25 Express menu only available in The Landing

- June 1 full menu available in The Landing
 - June 8 closed for special event

First Friday Jam will be June 7 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. Dinner is available from 5-8 p.m.

Last Friday Trivia Contest will be May 31

and June 28. Trivia starts at 6:30 p.m. 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. For rounds 1-4 teams have two, four and six points to wager per round. Rounds 5-8 teams will have four, eight and 12 points to wager per round. Only one point value

may be used per question. For example, if you wager four points on the first question then you must choose either two or six points for the next question. Which-ever 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.

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 (FC) 454-6440

Check us out on Facebook! Arnold AFB Services Fitness Center

The Fitness Center will

host the annual **Health & Wellness Expo** May 15. The event will kick off with a run (2 laps around Fitness Center trail) at 11:15 a.m. The Expo will be from 11 a.m. to 1 p.m. with exposure and education on different dimensions of wellness. Pick up a door prize card when you arrive and while visiting the booths get the card initialed. Once the card is complete it may be entered for a chance to win prizes.

See BRIEFS, page H3

BRIEFS from page H2

**Fitness Center (FC)
454-6440**

Fit to Fight Competition will be held the first three weeks of June. Each week participants will be scored on a different workout. The workouts are not announced in advance so as to ascertain the true on-the-spot fitness of the competitor. Even though the workouts will be different each week they will be judged the same on either repetitions and/or time. After the three weeks, each participant's scores will be tallied to see who is the most Fit to Fight. T-shirts will be awarded to the top five finishers in both men's and women's categories.

Group Class Schedule: (for eligible users only)

Boot Camp – Monday, Wednesday and Friday 6-7 a.m.

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

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

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

**Outdoor Rec (ODR)
454-6084**

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

Kayaking for Beginners Class will be held at Crockett Cove May 18, June 15 and June 29 from 9 a.m. to 1 p.m. This is a beginners' introduction to learn about the kayak, equipment, emergencies and wet exits. Following the classroom time, participants will load up equipment and go down to the beach to practice entering, maneuvering, paddling and turning. A wet exit, basic self-rescue and additional strokes will also be practiced. Participants will then take a tour of the lake to practice their newfound skills. The class will be approximately four hours. Make sure you wear appropriate clothing and bring sunblock. This class is for ages 10 and up and cost is \$10 per person. There must be at least three to hold the class and maximum class size is six. Call to sign up by the day prior.

FamCamp outdoor movie nights will be May 25, June 8 and June 22. If you are camping over these weekends you can enjoy an outdoor movie for free on Saturday beginning at 7:30p.m. Bring your chairs or blankets to the open grass area behind the upper bathhouse. Free caramel popcorn will be provided. The movies are as follows:

May 25 - "Life of Pi," PG, 2 hr. 7 min. The story of a young man who survives a disaster at sea and is hurtled into an epic journey of adventure and discovery. While cast away he forms an unexpected connection with another survivor ... a fearsome Bengal tiger.

June 8 - "Parental Guidance," PG, 1 hr. 45 min. Artie and Diane agree to look after their three grandkids when their type-A helicopter parents need to leave

town for work. Problems arise when the kids' 21st-century behavior collides with Artie and Diane's old-school methods.

June 22 - "The Hobbit: An Unexpected Journey," PG-13, 2 hr. 49 min. A younger and more reluctant Hobbit, Bilbo Baggins, sets out on an "unexpected journey" to the Lonely Mountain with a spirited group of dwarves to reclaim their stolen mountain home from a dragon named Smaug.

Basics of Canoeing is a beginners' introduction course to canoeing. Come join us June 1 as we have a day on the water exploring canoeing. Meet at the Crockett Cove pavilion at 9 a.m. where guests will learn about the canoe, equipment, emergencies and wet exits. Following the class room time, participants will pair up (two people per canoe) and load equipment to go to the beach and practice entering, maneuvering, paddling and turning. A wet exit, basic self-rescue, and additional strokes will also be practiced. Participants will then take a tour of the lake to practice their new skills. The class will be approximately five hours in length. Cost is \$10 and the class is for ages 10 and older. There must be at least four to take the course and no more than ten. Sign up by May 31.

Archery Basics Class will be held June 8 for all ages. The class costs \$5 and will begin at 9 a.m. Deadline to sign up is June 7. There must be at least two 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.

Join Outdoor Rec for an **Introduction to Hiking Class** June 22 with a mid-morning hike at Old Stone Fort State Archaeological Park. The course costs \$10 and includes safety on the trails, leaving nature how it was found, a visit to the museum and history of Old Stone Fort. Leave from ODR at 9 a.m. and return at approximately 3 p.m. This class is for ages 10 and older. There must be at least five to take the class and no more than 15. Remember to wear closed toed shoes and bring water and sunscreen if needed. Sign up by June 19.

Paintball continues with regular play every Saturday. 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. 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 direc-

See BRIEFS, page H4

2013 Member Scholarship entries due by July 1

Air Force Services is conducting the Annual Club Membership Scholarship Program. Current Members First Plus individuals and their family members who have been accepted by or enrolled in an accredited college or university for entry during the fall of 2013 term as a part time or full-time student are eligible to apply for scholarships. Grandchildren are eligible if they are a dependent of the club member. Student

enrollment status may involve either undergraduate or graduate curricula. Applicant must provide a copy of their college or university acceptance letter.

Twenty-five \$1,000 scholarships and high performance Dell laptop computers will be awarded. To enter, write and submit a 500 words or less essay on the following topic: "Who or What Inspires You to Be Successful? Why?" Essays exceeding

500 words (excluding title) will be disqualified. Essays must be typed in MS Word 12-point Times New Roman font, single-spaced, with double-spacing between paragraphs. One-inch top and bottom margin and 1.25 inch left and right margin submitted on CD. The application package must include CD containing essay with participant's name, date and word count, entry form (included in the brochure or online at aclubs.

net) and current college/university acceptance letter or official transcripts.

Essays not meeting the above parameters will be disqualified. Submit entries to Services Marketing, 100 Kindel Drive Suite C321, Arnold AFB TN 37389-3321 by July 1. Final scholarship awards will be announced by Sept. 17. All nominees will be advised of scholarship selection or non-selection. Only one essay is allowed per eligible person.

Miss AEDC Pageant returns to ALC May 18

Arnold Lakeside Center will host a Miss AEDC Pageant for ages 1-18 May 18. The event is open to the public and will be held from 10:30 a.m. to 6 p.m.

Cost to enter is \$25 and each division winner will receive a crown, sash and flowers. Second, third and fourth place winners in each division will receive flowers.

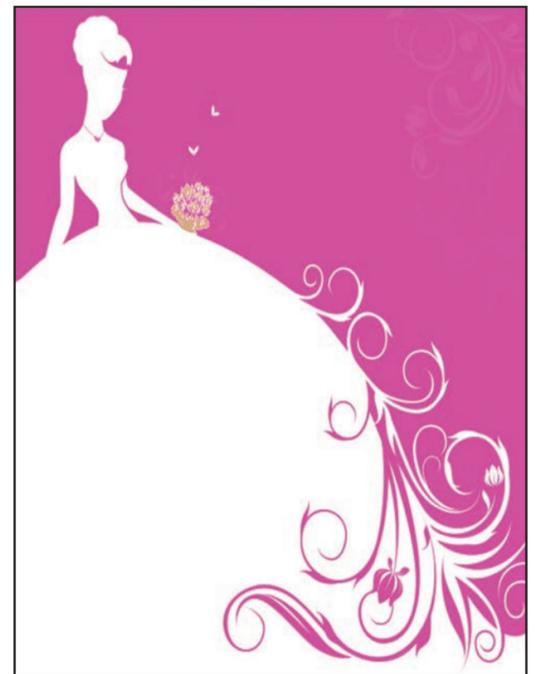
There will also be a People's Choice winner who will receive a goody bag and sash. Any attending may vote for the People's Choice winner for only \$1 per vote.

There will be four divisions this year which include Tiny Miss AEDC for ages 1-3, Little Miss

AEDC for ages 4-7, Pre-teen Miss AEDC for ages 8-11, Junior Miss AEDC for ages 12-15 and Miss AEDC for ages 16-18. Each participant is allowed one person backstage to assist in getting ready but they must return to the front before the pageant begins.

Participants should arrive no later than 30 minutes prior to start time with hair and makeup complete. A box lunch will be available for \$8 and includes ham or turkey sandwich, chips, cookie and drink.

Deadline to enter the pageant is May 13. Call 454-3350 for more information and to request registration forms.



June Movie Schedule

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

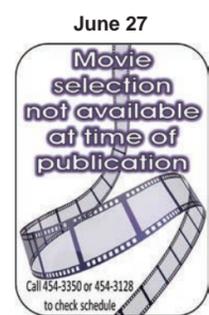


June 6 – "Oz the Great and Powerful," rated PG (2 hr. 10 min.) starring James Franco, Michelle Williams, Mila Kunis and Rachel Weisz. A small-time magician is swept away to an enchanted land and is forced into a power struggle between three witches.

June 13 – "Jack the Giant Slayer," PG-13 (1 hr. 54 min.) starring Nicholas Hoult, Ewan McGregor, and Stanley Tucci. The ancient war between humans and a race of giants is reignited when Jack, a young farmhand fighting for a kingdom and the love of a princess, opens a gateway between the two worlds.

June 20 – "Snitch," PG-13 (1 hr. 52 min.) starring Dwayne Johnson, Jon Bernthal, and Susan Sarandon. A father goes undercover for the DEA in order to free his son who was imprisoned after being set up in a drug deal.

June 27 – Movie selection not available at time of publication. Call 454-3350 or 454-3128 for schedule.



The Green Scene
brought to you by Services Recycling Program

Waste & Recycling Facts



The average American office worker uses about 500 disposable cups every year.

Every year, Americans throw away enough paper and plastic cups, forks and spoons to circle the equator 300 times.

The average office worker in the US uses 10,000 sheets of copy paper each year.

Office workers in the US generate approximately 2 pounds of paper and paperboard products every day.

The average American employee consumes 2.5 cans of soda each day at work.

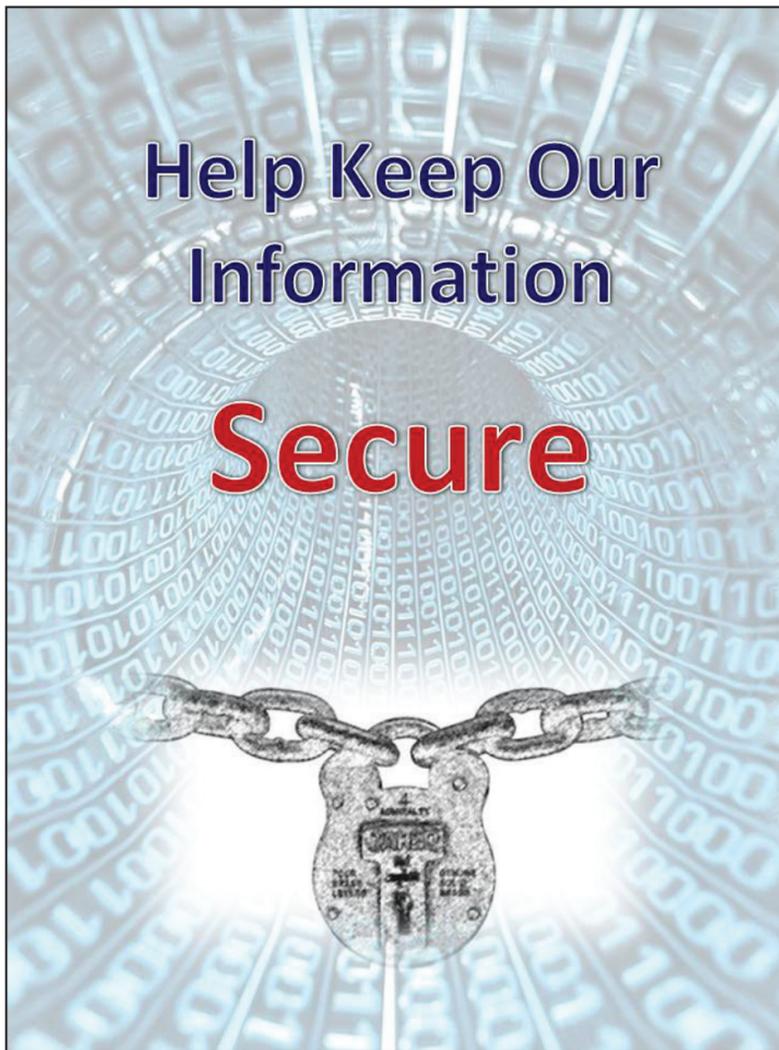
Aluminum can be recycled forever with no loss of quality



Thank You from **The Green Team**
Robbie Evans (manager), Doug Richards, Matt Gluck
931-454-6068



The Services insert to the High Mach is designed to inform our customers of events and specials in Services activities. All program dates, times and prices are subject to change.



BRIEFS from page H3

**Outdoor Rec (ODR)
454-6084**

tion 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 2,000. Call 454-6084 for more information about the paintball program or to sign up for these events.

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, barbecue 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 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 slots available in the RV storage yard. Each slot is 30 feet long and 10 feet 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 feet long and 12 feet 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 feet long by 10 feet wide by 13 feet in height, 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-foot 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 accommodate up to 60 people. This equipment must be facilitated by an Outdoor Rec staff member and is not available for rent for 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.

Reservation Policy: FamCamp, Crockett Cove and Dogwood Ridge reservations may be made 45 days in advance for active duty and reserve military, 40 days for retired military, and 30 days for all other qualified personnel. Boat reservations may be made 15 days in advance for active duty and 10 days for other eligible individuals. All reservations are made through the Outdoor Recreation by stopping by or calling 454-6084.

**Wingo Inn
454-3051**

Check us out on Facebook! Arnold AFB Services 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.

**Gossick Leadership Center (GLC)
454-4003**

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

Office located at Arnold Lakeside 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 454-4003.

AS AN AIR FORCE CIVILIAN, WHERE CAN I FIND HELP?

We all face challenges, but we don't have to face them alone.

IF YOU NEED HELP WITH... TRY THESE AGENCIES & THEIR RESOURCES

Health & wellness planning	AFMC Wellness Support Center	www.afmcwellness.com
Health screenings & education	Civilian Health Promotion Services	(931) 454-6440
Work, personal or family issues	Employee Assistance Program	(800) 222-0364
Mental health & substance abuse	Centerstone	(931) 461-1300
Unplanned pregnancy	Crisis Pregnancy Assistance Center	(931) 728-6440
Suicide prevention	National Suicide Prevention Lifeline	(800) 273-8255
Sexual assault & victim advocacy	Sexual Assault Response Coordinator	(931) 581-7494
Crime victim advocacy	Victim Witness Assistance Program	(931) 454-4657

Reduce, Reuse & Recycle