



# HIGH MACH

Serving the World's Premier Flight Simulation Test Complex



Vol. 60, No. 18

Arnold AFB, Tenn.

PRSRST STD  
US POSTAGE PAID  
TULLAHOAMA TN  
PERMIT NO. 29

September 9, 2013

## VKF modernization program reaches a milestone Wind tunnel ready to pave the way for next-generation flight simulation testing

AEDC Staff Report

A team comprised of engineers, outside machinists, schedulers and other specialists at AEDC have focused their ideas, energy and time over the past four years on completing the first major modernization program on the 1950s-era von Kármán Gas Dynamics Facility (VKF).

Win Phipps, the senior test project manager for AEDC's Propulsion Wind Tunnel Test group, said, "The initial operating capability (IOC) test runs for VKF Wind Tunnel B were completed in March, with Tunnel A completed in August, and the IOC for Wind Tunnel C is scheduled for September."

Over the years, virtually every high speed flight vehicle has required testing in Tunnels A, B and C – from reentry and tactical vehicles and space capsules to the X-planes and winged vehicles.

VKF is comprised of three continuous-flow units, Supersonic Wind Tunnel A and Hypersonic Wind Tunnels B and C. The facility also includes an



Joe Syler, Aerospace Testing Alliance outside machinist, makes an adjustment to the Ares I first stage booster model in the center's von Karman Facility's Tunnel B prior to the resumption of heat transfer testing. (AEDC photo)

air processing and conditioning plant that incorporates a multi-stage air compressor system and reservoirs for high pressure air storage. The conditioned, high

pressure air is used to simulate jet flows from the models under test in the wind tunnels and also provides high-pressure air for the power ejectors in AEDC's

arc heater chambers, ballistic ranges G and S, Propulsion Wind Tunnel (PWT) and Aero-propulsion Test Unit (APTU).

Prior to the funding of the

VKF modernization program in 2007, VKF had not undergone a major upgrade, other than being

See MILESTONE, page 3

## Arnold Community Council announces annual dinner Oct. 10

By Kathy Gattis  
ATA Public Affairs

The Arnold Community Council (ACC), a community support group for AEDC, will host its annual dinner Oct. 10 at the Manchester-Coffee County Conference Center.

The guest speaker is retired Lt. Gen. David A. Deptula. After a distinguished military career, Deptula became the dean of the Mitchell Institute for Airpower Studies and is a senior scholar for the United States Air Force Academy.

Deptula spent more than 34 years in the Air Force as a pilot and later a recognized expert in conceptualizing, planning and executing national security operations from humanitarian relief to major combat operations.

He became the first U.S. Air Force Deputy Chief of Staff for Intelligence, Surveillance and Reconnaissance and was a Combined /Joint Task Force Commander twice – first in Operation Northern Watch and the second time in Operation Deep Freeze.

Deptula flew 82 combat missions as a general officer in Op-

eration Northern Watch and flew more than 3,000 hours during his career. About 400 of those hours, he was a pilot in combat, to include multiple operational fighter command assignments in the F-15 Strike Eagle.

"The annual banquet is the culmination of a great year with so many of our members working hard for Arnold Engineering Development Complex," said ACC President Steve Cope. "It is fitting that Lt. Gen. Deptula has accepted our invitation to be the keynote speaker at this premier event. His background and

experience as a fighter pilot certainly fits well with the AEDC test facility support council banquet, and we look forward having him here on October 10th."

ACC incoming president Ben Craig said he is thrilled Deptula accepted the invitation to speak at the group's annual dinner. The event is the ACC's only fundraiser and the money raised is used to support and promote AEDC.

Each year the community council sponsors and collects

See DINNER, page 4



ACC Dinner guest speaker retired Lt. Gen. David A. Deptula

## ATA awards vocational technology scholarships to personnel's dependents

By Raquel March  
ATA Public Affairs

ATA's focus on Science, Technology, Engineering and Mathematics (STEM) is opening new doors for ATA personnel's dependents by awarding scholarships in a different educational area – vocational technology.

ATA awarded three ATA Vocational Technology Scholarships with a maximum value totaling \$6,000 to Coltin Beavers, Justin Gault and Matt McAdams. Each student received \$1,000 this year and will receive \$1,000 next year if they maintain a 3.0 GPA and meet school attendance requirements.

Frankie Beavers, an em-

ployee in the ATA Test Assets and Support Division and Coltin's father, said, "I would like to thank ATA for the Scholarship. The opportunity for such reward is greatly appreciated."

Coltin is enrolled at the Tennessee College of Applied Technology (TCAT) in Shelbyville and plans to study Industrial Maintenance, as well as Justin, beginning this month.

Justin's mother, Sonia Gault, is an employee in the ATA Information Technology and Systems Division. She also expressed her appreciation for ATA awarding Justin a scholarship.

See SCHOLARSHIPS, page 7



## Air Force Test Center commander is promoted

Arnold "Arnie" Bunch Jr., Air Force Test Center commander, has his wife Caroline and his father Arnie Sr. pin on his major general rank of two stars during his promotion ceremony Aug. 23. Bunch was formally promoted to major general after being frocked to the rank in April. The ceremony was attended by family and friends along with Airmen, civilians and contractors of Team Edwards. (U.S. Air Force photo by Rebecca Amber)  
See full story on page 3.

### In This Issue....

**ATA makes donation to Tullahoma High School**  
...Page 9

September is National Preparedness Month  
...Page 2



## HIGH MACH

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

**Col. Raymond Toth**  
Commander

**Jason Austin**  
Director,  
Public Affairs



**Steve Pearson**  
General Manager,  
Aerospace Testing Alliance

**High Mach Staff:**  
Kathy Gattis, ATA Public Affairs Manager & Executive Editor  
Raquel March, Editor

*High Mach* is published by *The Tullahoma News*, a private firm in no way connected with the U.S. Air Force, Arnold Engineering Development Complex (AEDC) or Aerospace Testing Alliance (ATA), under exclusive written contract with ATA, complex support contractor, at Air Force Materiel Command's AEDC, Arnold AFB, Tenn., 37389.

Everything advertised in this publication will be made available for purchase, use or patronage without regard to race, color, religion, sex, national origin, age, marital status, physical handicap, political affiliation or any other non-merit factor of the purchaser, user or patron.

The *High Mach* office is located at 100 Kindel Drive, Suite B212, Arnold AFB, Tenn. 37389-2212. Editorial content is edited and prepared by AEDC support contractor ATA. Deadline for copy is Wednesday at close of business the week before publication.

This commercial enterprise newspaper is an allowable ATA contractor publication for personnel at AEDC.

The content of *High Mach* does not necessarily reflect the views of the Air Force, AEDC or ATA. The appearance of advertising in this publication does not constitute endorsement by the Department of Defense, the Department of the Air Force, AEDC, ATA or *The Tullahoma News* of the products or services advertised.

**For advertising information, call (931) 455-4545.**

**For general information about *High Mach*, call (931) 454-5655 or visit [www.arnold.af.mil](http://www.arnold.af.mil).**

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



### Core Values

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



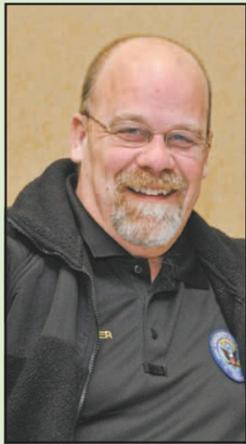
### Vision

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

# This September 'You Can be the Hero'



**Commentary by Bradley Walker**  
AEDC Contributing Writer

September is National Preparedness Month. It is a time to prepare yourself and those in your care for emergencies and disasters. If you have seen the news recently, you know that emergencies can happen unexpectedly in communities just like yours, to people like you. We have seen tornado outbreaks, river floods and flash floods, wild fires, historic earthquakes, tsunamis, and even water main breaks and power outages in U.S. cities affecting millions of people for days at a time.

National Preparedness Month is a part of the committed effort to strengthen the United States' preparedness capabilities. The national preparedness architecture encompasses the full spectrum of prevention, protection, response, and recovery efforts to prepare the United States for all hazards – whether terrorist attack or natural disaster.

Since September 11th, the US Government has taken steps to encourage all citizens to make their own survival preparations. September was chosen as National Preparedness Month, as the tragedies of September 11th highlighted to the nation the importance of being prepared.

Police, fire and rescue may not always be able to reach you quickly in an emergency or disaster. The most important step you can take in helping your local responders is being able to take care of yourself and those in your care. The more you are prepared, the quicker your community will recover. This September, prepare and plan in the event you must go for three days without electricity, water service, access to a supermarket, or local services.

Here are four steps you can take to "Be Ready":

#### Stay Informed

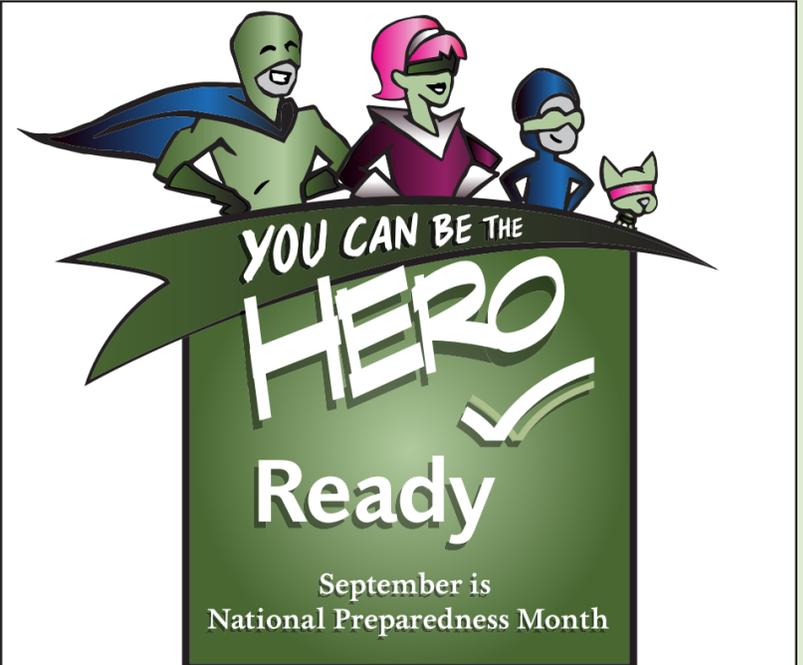
Information is available from federal, state, local, tribal, and territorial resources. The AF "Be Ready" App and TEMAs "Ready TN" App are excellent for planning and staying informed.

#### Make a Plan

Discuss, agree on, and document an emergency plan with those in your family.

#### Build a Kit

Keep enough emergency supplies - water, nonperishable food, first aid, prescriptions,



**Make a difference for yourself, your community and our nation. Do one of the following:**

- Learn your risks and responses**
- Make a family communications plan**
- Build an emergency supply kit**
- Get involved in preparedness in your community**

**Register at: [www.ready.gov/pledge](http://www.ready.gov/pledge)**



flashlight, and battery-powered radio on hand - for you and those in your care. Have you planned for the family when electricity is out and ATMs won't work?

#### Get Involved

There are many ways

to get involved especially before a disaster occurs. The whole community can participate in programs and activities to make their families, homes and places of worship safer from risks and threats. Community leaders agree that the formula for en-

surging a safer homeland consists of volunteers, a trained and informed public, and increased support of emergency response agencies during disasters.

Access [Ready.gov](http://Ready.gov) to learn what to do before, during, and after an emergency.

# What do you mean, 'Back to basics'?

**By Lt. Col. David Fazenbaker**  
10<sup>th</sup> Airlift Squadron commander

**JOINT BASE LEWIS-MCCHORD, Wash. (AFNS)** – Last September, in his first speech as the Air Force Chief of Staff, Gen. Mark A. Welsh III advocated a back-to-basics approach for the Air Force. He noted that the missions of the Air Force have not changed over time, but rather, the terms by which we identify the missions have changed.

Welsh outlined that, from a strategic view, in order for us to continue to do what the Air Force does best, we will have to work around budgetary pressures. In recent months, we have seen those budgetary con-

cerns come to fruition, most notably in the form of sequestration. We have felt the impact, at varying levels, of losing our civilian workforce for 20 percent of their pay periods.

In order to continue operations, we identified the minimum requirements to accomplish our mission. We've found that we must go back to basics.

So what does that actually mean?

To me, it means looking at every task I accomplish – every meeting and every process - then asking myself a simple question.

Why? Why do I accomplish that task? Why is this meeting important? Why is a particular process done a certain way? Is it

required by an Air Force instruction? Is it something your predecessor did, so you feel you have to also?

Understanding why we do things is the basis for identifying new processes and new ideas to improve the way we accomplish our mission.

The budgetary limitations Welsh spoke of are upon us and they will continue over the foreseeable future. As it always has been, it is our job to be good stewards of the resources we have. This is not about finding ways to do more with less; it is actually about finding ways to do less with less.

We do less by finding the tasks that are essential in our jobs and by amending existing processes or develop-

ing new ones to meet our requirements. We find these opportunities for improvement by continuing to be who we are and experts in what we do.

If you're an expert in your career field, continue to be that expert. If

you're just starting your Air Force career, strive to be that expert. Learn your job and how to do it the best you can. Ask the "why" questions. Go back to basics and continue to make a difference.

## 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://cs.eis.afmc.af.mil/sites/cio/1M/Pubs/AEDC/Pubs%20and%20Forms/AEDC%20Publications/Smoking\\_area\\_map.pdf](https://cs.eis.afmc.af.mil/sites/cio/1M/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.

# ATA receives certificate of ISO 9001:2008 Recertification

By Raquel March  
ATA Public Affairs

ATA was recently certified ISO 9001:2008 compliant after an audit performed by external registrar Det Norske Veritas (DNV.)

ATA received the DNV Business Assurance Management System Certificate plaque certifying that ATA has been found to conform to the Management System Standard: ISO 9001:2008. The plaque also states that the "certificate is valid for the following product or service ranges: The Development and Testing of Aerospace Applications."

"Recertification to the ISO 9001:2008 Standard means that the ATA Management System has proven inherent value over time for sustaining and improving organizational performance for operating and maintaining AEDC," said Jerry "J.T." Northcutt, ATA quality manager and management system branch manager. "Also, being ISO certified is



ATA General Manager Steve Pearson and J.T. Northcutt, an ATA quality manager and management system branch manager, display the recently received ISO 9001:2008 certificate plaque certifying that ATA has been found to conform to the Management System Standard. (Photo by Rick Goodfriend)

a requirement to provide test and development services for some of AEDC's commercial customers."

ISO 9001:2008's strategic tools reduce costs by minimizing waste and errors, increasing pro-

ductivity and also provide enhanced customer satisfaction.

The audit, performed by DNV, assessed the maintenance and compliance of ATA's established management system like policies and

procedures. An audit reveals evidence that the system is continually improving and meeting customer requirements. The audit resulted in a three-year recertification which continues through the end of ATA's current

contract with AEDC.

"Process discipline and continual improvement is a key to meeting this objective. Developing and maintaining our management system to meet ISO 9001 certification requirements has

proven time and again to enable the kind of process discipline needed by AEDC," Northcutt said.

ISO 9001:2008 is implemented by more than one million companies and organizations in more than 170 countries.

## AFTC CC formally promoted to major general

By Kenji Thulowit  
412<sup>th</sup> Test Wing Public Affairs

**EDWARDS AIR FORCE BASE, Calif.** – Team Edwards joined family and friends of Arnold W. Bunch Jr. to watch

him formally promoted to major general Aug. 23.

The promotion ceremony took place in the Base Theater and was presided over by Gen. Janet C. Wolfenbarger, Air Force Materiel Command commander.

Bunch was frocked in April and has already been wearing the major general rank device of two stars on his uniform; and he had assumed the responsibilities of a major general when he became the first Air Force Test Center commander during the Summer of 2012 following the 5-Center reorganization of AFMC. This month, Bunch officially attained the pay grade of a major general.

Wolfenbarger praised Bunch's wide range of experience in which he excelled both in and out of the flight test world and how he is more than ready to tackle the position of two-star general.

"We [the Air Force] are very careful with choosing those people with the right mix of experience, wisdom, character and leadership to fill those positions at these kinds of levels and that is absolutely the case today with Gener-

al Bunch," said Wolfenbarger.

Bunch is no stranger to Edwards AFB. A U.S. Air Force Test Pilot School graduate, Bunch returned to Edwards to serve as the 419th Flight Test Squadron commander and later as the 412th Test Wing commander.

"To the men and women of the Air Force Test Center, those in attendance and all the rest across the enterprise, 'thank you' for your support," said Bunch. "It is a privilege to work for you. I wake up every day knowing I have the best job in the Air Force and it is all because of you. Your professional conduct sets the standard that others should emulate; as you dedicate yourselves to testing systems for the warfighter and providing world-class test support. That's not just here at Edwards, you are the ones who are able to be in attendance

here today, but also for Eglin AFB, Arnold AFB and the rest of the test center enterprise. You amaze me every day. I get up smiling and go to bed smiling because you make it special. Thank you for what you do everyday to make the test center successful."

Bunch thanked his family and friends for their attendance, along with several of his Air Force Academy and Test Pilot School classmates before wrapping up the ceremony and inviting Team Edwards to a reception at Club Muroc.

General Bunch was commissioned in 1984 as a graduate of the U.S. Air Force Academy. He completed undergraduate pilot training in 1985. He completed operational assignments as an instructor, evaluator and aircraft commander for B-52 Stratofortresses. Following graduation from the Air Force Test Pilot School,

Bunch conducted developmental testing in the B-2 Spirit and B-52 and served as an instructor in each. Additionally, he has commanded at the squadron, group and wing levels. Prior to his current assignment, he was the Commander of the Air Force Security Assistance Center, Air Force Materiel Command, Wright-Patterson AFB, Ohio.

As the AFTC commander, he directs a \$31 billion enterprise of more than 18,000 military, civilian and contractor personnel across Edwards AFB, Eglin AFB, Fla., and Arnold AFB, Tenn. The AFTC provides developmental test and evaluation of experimental and research manned and unmanned air, space and cyber systems for military services, DARPA, NASA and international partners, in addition to operation of the U.S. Air Force Test Pilot School.

## Department of Defense awards contract to ATA at Arnold AFB

Office of the Assistant  
Secretary of Defense Public Affairs

**WASHINGTON** – Aerospace Testing Alliance, (a joint venture of Jacobs, Inc., Computer Sciences Corp., and General Physics Corp.) Tullahoma, Tenn., has been awarded a \$218,590,871 modification (P00307) on a cost-plus-award-fee contract (F40600-03-C-0001) for operation, maintenance, information management and support of Arnold Engineering Development Complex (AEDC). Work will be performed at Arnold Air Force Base, Tenn., and is expected to be completed by Sept. 30, 2014. No funds are obligated at time of award. AEDC/PZZ, Arnold Air Force Base, Tenn., is the contracting activity.

### MILESTONE from page 1

semi-automated in 1980. The VKF plant's main drive motors and motor controls were original equipment from when the facility first became operational in 1958.

"Our goal is to ensure the viability of the VKF plant for another 20 to 25 years of operation," Lucy said. "This team effort, led by Frank Wonder, Aerospace Testing Alliance's Flight Systems Acquisition acting section manager and Ozey Young, VKF Modernization Program Manager, increased safety with some new switchgear and we also made it more efficient by putting in new control systems and a new variable frequency starting system. These combine to decrease the operational cost of running the VKF plant."

Switchgear is the combination of electrical-disconnect switches, fuses or circuit breakers used to control, protect and isolate electrical equipment at a place like AEDC.

Lucy also spoke about

the improvements to the VKF wind tunnels.

"VKF is near completion and once the 4T improvement program completes in Fiscal Year 2014, wind tunnels A, B and C and Propulsion Wind Tunnel 4T will all have that common data acquisitions system template," he said. "So, a test customer can come in and run a test in a transonic through the supersonic-hypersonic regimes with a common data setup or common recording tool.

"This will increase productivity within A, B and C wind tunnels. We replaced the three separate VKF control rooms with a brand new common operations center. It's going to be useful to have the test customer and AEDC operators all co-located, which will improve communication."

Lucy added, "We also have a new shadowgraph Schlieren system, providing great graphical and video test data to the customers."

### VKF plant modernization

"The VKF modernization program has included modernizing and rewiring the plant main drive system motors to take advantage of the new wiring and insulation capabilities to get more horsepower out of the same physical space of the iron on those motors," Phipps said. "It did away with the starting motors through the increased horsepower of the main drives too. Electrolyte coolers that were part of the old starting system, and a maintenance headache, went away, too.

"Installing a new variable frequency starting system and getting rid of the starting motors also reduced maintenance and increased the productivity, because we used to stop every 60 hours to clean those brushes on those old starter motors. Now, we can run for 120 hours and stop to clean the brushes on the main drive.

### VKF wind tunnel modernization

Phipps said the VKF modernization program has also focused on the hypersonic wind tunnels and their components.

"We've replaced the Tunnel A oil filled actuators in the nozzle and diffuser with new electrically driven ones," Phipps said. "The oil filled ones were a maintenance headache, which required eight hours of cleaning after 24 hours of operation. The old nozzle positioning computer was the oldest one on base at the time it was replaced too. We fixed it with parts from eBay, the last time we used it. So, we're excited about the productivity and reliability gains here.

"Standardization across wind tunnels is one of the modernization program goals. For, example, the same nozzle and diffuser actuators type acquired for Tunnel A will be used in 4T too, which enhances maintenance and reduces the part types on base.

"We're upgrading the

Schlieren systems and cleaning the mirrors too. The Tunnel A, Tunnel B and Tunnel C test article control systems were refurbished just before we took the systems out of service to start this modernization.

"That plant and test cells were built in the 1950s and this is a really significant upgrade. It's probably just in time too. For example, Conventional Prompt Global Strike, High Speed Strike Weapon, High Speed Missile, Space Launch Systems, and High Performance Interceptor customers have expressed strong interest in leveraging AEDC supersonic and hypersonic capabilities."

Asked why VKF is important to the customer, Phipps said it's all about productivity.

"Tunnel A and B and C are what's called continuous flow test facilities," he said. "Although it takes a few hours to get on conditions, once the facilities are on conditions, test op-

erations could be sustained for days without interruption. A model insertion system, which is similar in all the tunnels allows you to make model changes in a tank below the test cell and go right back in the test cell immediately. Uninterrupted test times means acquiring lots of data quickly.

"That contrasts remarkably from a blow-down facility where you blow for a few seconds and get a few seconds of data, then you make a test article change, then you have to pump up again to get the next run. A customer commented that he got twice as much data in one 20-hour period in Tunnel A, as it took to get in 12 weeks of 12-hour days at a blow down facility. So, getting lots of data is what Tunnel ABC is all about."

Phipps added, "VKF Wind Tunnel A, B and C are the most productive tunnels in the world. A/B/C, collectively, have the highest data rates of any tunnels in the world."

# AEDC focuses on the human elements of maintenance and reliability

By Raquel March  
ATA Public Affairs

AEDC professionals and engineers attended workshops and a lunch and learn sponsored by the Society for Maintenance and Reliability Professionals (SMRP) Middle Tennessee Chapter and ATA. The events focused on factors least considered in maintenance and reliability such as the people.

Speaker Terrence O'Hanlon, publisher of Reliabilityweb.com and Uptime Magazine and the executive director of the Association for Maintenance Professionals (AMP), engaged engineering and technical professionals to consider three things in his presentation to implement in their processes of Maintenance and Reliability.

O'Hanlon said that often Maintenance and Reliability focuses on the mechanical elements of a corporation instead of the people that control the mechanical elements. He began his presentation with a way to incorporate people into the reliability process.

Due to a previous illness, O'Hanlon was forced to take a leave from his leadership role while personnel at his company began to temporarily lead themselves. Upon his return to lead the company, he found that the person-

nel didn't want him to lead but instead wanted to lead themselves. The personnel, however, did express they wanted his overall leadership for the company.

"They said they wanted to do it (lead themselves) and I said 'you don't know anything about reliability' and so we began to develop a system so they could know," O'Hanlon said. "They said 'we can learn it, we can know about it, we hear you talking about it and we go to the (reliability) conferences.' We set out to develop a system so that people could know it."

That system, called Uptime Elements™, guides on how reliability occurs. Uptime Elements is a series of domains with elements including Reliability Engineering for Maintenance, Asset Condition Management, Work Execution Management and Leadership for Reliability.

Part of his presentation focused on embedding sustainable leadership and culture. Personnel should be trained in elements that keep the mission on track because reliability or maintenance decisions may be influenced by what upper level management believes is critical to the mission's operation.

"Prior to the lunch and learn session, several



Speaker Terrence O'Hanlon, publisher of Reliabilityweb.com and Uptime Magazine and the executive director of the Association for Maintenance Professionals (AMP), speaks to a group of professionals at UTISI for a Maintenance and Reliability Lunch and Learn hosted by the Society for Maintenance and Reliability Professionals (SMRP) Middle Tennessee Chapter and ATA. (Image by Dakin Seligman)

workshops were held at AEDC in which Air Force and ATA systems, project and maintenance engineers and managers were in attendance for the first day's session," said Ramesh Gulati, in the ATA Test Assets and Support Division. "The second day's session was presented to AEDC asset owners and capital investment project managers.

"We try to bring the best speakers from the industry to educate our

AEDC folks in industry best practices, two to four times a year. In addition, it gives us an opportunity to network with our industrial neighbors in this area to share our experiences and lessons learned."

O'Hanlon's visit concluded with a third and final session at UTISI as a Lunch and Learn. More than 90 people, including those from AEDC, Nissan, Honda, Condition Monitoring and Reliability Solutions, were in attendance

as well as others from industries in the surrounding area.

Lynn Moran, SMRP Middle Tennessee Chapter chairperson, thought O'Hanlon provided key elements that the participants could take with them to implement in their Maintenance and Reliability areas.

"I think the speaker provided an overview of what's happening in the reliability and asset management area," Moran

said. "He also provided his views on how to deal with and what's important in the reliability culture, integrity and safety."

SMRP is a nonprofit professional society formed by practitioners, with a mission to serve leaders in advancing Reliability and Physical Asset Management. SMRP provides value for individual practitioners as well as companies practicing and sustaining Maintenance and Reliability best practices.

## DINNER from page 1

donations for the Veterans Picnic; makes a donation to the AEDC Children's Christmas Party, provides gifts for the Complex's annual military award winners; donates to Honor Flight and sponsors recep-

tions for visiting dignitaries.

The group also travels to Washington, D.C. each year to promote AEDC. About 20-25 ACC members schedule appointments with the Tennessee

Congressional delegation and key test and evaluation and ground testing officials at the Pentagon to discuss issues facing AEDC.

Members of the council each pay for their trip expenses out-of-pocket.

In July, ACC sponsored a regional job fair after

ATA announced it expected a significant reduction in force.

If you are interested in attending the ACC's annual event, table sponsorships are \$700 for a gold and \$350 for silver; individual seats are \$75 per person. Companies and

organizations who sponsor at the gold level will receive 10 seats at the event at a reserved table with the sponsor name; 10 ACC individual memberships for one year and recognition in the program, the dinner slide show and on the ACC website.

Silver sponsors will receive five reserved seats at the dinner, five ACC memberships for one year and recognition in the program, dinner slide show and on the ACC web site.

Individual attendees will get one seat in the general seating area along with a membership to ACC for one year.

All members are invited to ACC meetings held each month and other special events throughout the year.

To sponsor a table or individual seats at the ACC's annual event, email 2013dinner@arnoldcommunitycouncil.com or call Ben Craig (931) 639-0694; Steve Cope (931) 212-4093; Temple Bowling (931) 455-3234; Harry Brittain (931) 247-5417.

The social begins at 5:30 p.m. with dinner at 6 p.m. and the official program at 7 p.m.



# Airmen perform first F-35A weapons load verification



Master Sgt. Karen Griffin and Tech. Sgt. Russ Fontaine maneuver the guided-bomb-unit-31 into position to be loaded onto an F-35A Lightning II Aug. 27, 2013, at Eglin Air Force Base, Fla. This marked the first time Airmen have loaded weapons onto the new joint strike fighter here. Each step and procedure was analyzed to ensure it was correct or needed to be changed. The weapons load procedures perfected by the 33rd Maintenance Group Airmen will be taught to maintenance students in the future. Griffin and Fontaine are assigned to the 33rd Maintenance Group. (U.S. Air Force photo/Samuel King Jr.)

By Lt. j.g. Lisa Lill  
33<sup>rd</sup> Fighter Wing Public Affairs

**EGLIN AIR FORCE BASE, Fla. (AFNS)** – After months of preparation the weapons troop standardization load crew, or SLC, from the 33rd Maintenance Group

performed the first munitions load verification on the F-35A Lightning II here Aug. 27.

“Over the next couple of days, our 33d Fighter Wing maintenance professionals, alongside representatives from the F-35 Program Office and Air Combat Command,

will validate weapons loading procedures. This involves loading and unloading laser-guided and GPS-guided bombs, and air-to-air missiles into the weapons bays of the aircraft and ensuring the instructions we provide our load crews are accurate and effective - one more

step towards F-35 initial war fighting capability,” explained Lt. Col. Ron Huzzard, the deputy commander of the 33rd MXG.

The SLC has been practicing this load verification using a series of tabletop exercises for several months. This marked the first hands-on load verification for the crew.

“Watching our weapons troops verify loading procedures was like getting a glimpse into the future. Ultimately, this will be the work that is performed down range when it counts, and we are laying that foundation here at Eglin,” said Navy Capt. Lance Massey II, the commander of the 33rd MXG. “The stealth capability on the F-35 is beyond incredible, but the weapons capability rounds out the whole purpose of the joint strike fighter.”

The procedure was overseen by Chief Master Sgt. Christopher Wilbur, the wing weapons manager at the 33rd MXG.

“The Airmen walked through the technical instructions to verify the data is accurate and make adjustments as necessary,” Wilbur said about the verification load exercise.

The three-person SLC included Master Sgt. Karen Griffin, Tech. Sgt. Russell Fontaine and Staff Sgt. Steven Dash. Working as a cohesive team, the trio carefully performed several iterations of loading and unloading four different munitions. Once the procedures are verified SLC members will train the weapon troops.

“Getting this step verified in ALIS (the automated logistics information system) for the F-35A is important, so we can move forward and get our 60-plus maintainers trained and working,” Griffin said.

# F-22 training on the bayou

By Maj. John Deloney  
43rd Fighter Squadron

## TYNDALL AIR FORCE BASE, Fla. –

With a higher demand for expertly trained 5th generation F-22 Raptor pilots and less budget and resources, members of the 43rd Fighter Squadron and 43rd Aircraft Maintenance Unit formed a training mission to mirror possible real world situations without sacrificing quality to the students or combat commanders.

"I am proud of our Tyndall Airmen for the plan they have developed to accomplish our mission," said Lt. Col.

Travis Koch, 43rd FS commander. "Even in tough fiscal times, we are able to pool our resources, maximize our training opportunities and get the job done."

Team Tyndall personnel will travel to Naval Air Station Joint Reserve Base New Orleans with the purpose of maximizing flying and air combat training for six F-22 students in late August. The training mission will accomplish 40 syllabus items in eight days, which place students ahead of their proposed timeline and send new F-22 pilots to their operational units on time.

The 325th Fighter Wing trains and projects unrivaled combat power by providing F-22 pilots for the combat air force. The Air Force requires 38 F-22 Basic-Course graduates in 2013 and 2014.

This requirement presented a resource challenge to the 43rd FS and the 43rd AMU.

Normally, during the students' final air combat tactics phase of training, the required adversary support are brought to Tyndall. This support maximizes near real-world training versus fourth-generation aircraft and graduates students in a timely

manner. However, with budget constraints, finding a flying adversary able to deploy to Tyndall has become more and more difficult.

Team Tyndall will now travel to those training support assets.

"In our austere financial environment, resources to accomplish our mission have dwindled. In order to achieve success, we created a great plan to give our students the best training while being good stewards of our assets. This model ensures the Air Force will receive the best trained pilots on time," said Maj. John Hensz,

43rd FS assistant director of operations.

To graduate students on time, the squadron needs 240 Raptor direct support adversary training flights, which is 160 flights short of Tyndall's self-support capability. Pilots and maintainers developed this mission to make up the difference.

The plan takes eight F-22s and 124 personnel to JRB New Orleans to accomplish the mission.

The trip offers the ability to train with the New Orleans Air National Guard F-15C F-18s Hornets creating

a joint environment realistic to today's battlefield. Montgomery Air National Guard F-16s Fighting Falcons and Eglin Air Force Base's F-15C, F-16 and F-35 Lightning aircraft will fly in both advisory and ally roles. In addition, a dedicated air refueling tanker will further maximize flying training.

"The ability for us to accomplish our objective of graduating capable F-22 on-time pilots is a direct reflection of the teamwork and commitment by everyone in the 325th Fighter Wing," said Maj. Bill Creeden, the 43rd FS operations officer.

## SCHOLARSHIPS from page 1



Coltin Beavers (second from left) accepts a \$1,000 ATA Vocational Technology Scholarship from ATA Deputy General Manager Phil Stich (left). Coltin is joined by his father and ATA employee Frankie Beavers (third from left) and mother Tammy Beavers. (Photo by Jacqueline Cowan)

"We are very excited that Justin received the ATA Vocational Trade School scholarship and appreciate it greatly," Sonia said. "He is excited about starting his trade school program."

Matt is also enrolled at the TCAT and he began his classes in May and completed his first term in the Industrial Maintenance Program last month.

Aaron McAdams, Matt's father and an employee in the ATA Mission Support Division, said he and his son are thankful that ATA is providing the scholarship.

"Matt commented to me and my wife that he was honored and this gives him more incentive to do his best every day at school," Aaron said. "By helping provide assistance to further his education Matthew is going to strive even more to do his best and further his education."

The ATA Vocational Technology Scholarship Program was created to support post-secondary in-

dustrial education related to ATA's mission and operations. Three scholarships will be awarded annually.

"ATA employs a workforce of men and women who are experienced and skilled in mechanical, electrical and industrial systems and crafts," said ATA General Manager Steve Pearson. "Their knowledge, skills, and abilities are critical to successful facility and test support. This program supports vocational training toward that level of expertise, whether students eventually work here or at other industrial complexes."

Students applying for the scholarships must major in industrial full-time programs such as Drafting and CAD; Heating, Ventilation, Air Conditioning and Refrigeration (HVAC); Industrial Electricity; Industrial Maintenance; Welding; Machine Tool Technology; Aviation Maintenance Technology; or Mechatronics. Other industrial full-time programs with comparable curricula

may be authorized on a pre-approved basis.

Dependents of ATA personnel interested in applying for scholarships may apply beginning March 2014.

"Students applied by submitting an application packet to the ATA Vocational Technology Scholarship committee," said Teri Black, in the ATA Performance Management Division. "As part of the application process, students were also required to answer two essay questions related to future plans and work safety."

To be eligible for the scholarship, the applicant must be a dependent of an employee. A dependent may include a natural child, stepchild, legally adopted child, child acquired by adoption, or a child for whom legal guardianship has been awarded to the spouse of an ATA employee.

For more information about the ATA Vocational Technology Scholarship contact Black at 454-7170.



Justin Gault (second from left) accepts a \$1,000 ATA Vocational Technology Scholarship from ATA Deputy General Manager Phil Stich (left). Justin is joined by his mother and ATA employee Sonia Gault (third from left) and father Ronnie Gault. (Photo by Jacqueline Cowan)



Matt McAdams (second from left) accepts a \$1,000 ATA Vocational Technology Scholarship from ATA Deputy General Manager Phil Stich (left). Matt is joined by his father and ATA employee Aaron McAdams (right) and mother Shanniah McAdams. (Photo by Jacqueline Cowan)

## AEDC team conducts AMT testing on F-22 Raptor engine



Scott Slabaugh, ATA project engineer on the test, inspects the F119 in AEDC's sea level turbine engine test cell after an accelerated mission (AMT) test run. (Photo by Rick Goodfriend)

## Tinker ramps up repair of fighter's F119 engines

By Mike Ray  
Tinker Public Affairs

**TINKER AIR FORCE BASE, Okla.** – The 76th Propulsion Maintenance Group is amplifying its F119 jet engine repair capabilities.

“We are ramping up repairs of the F119 modules, and more parts will be routed to the component repair cells,” F119 Program Manager Brian Thompson said recently.

The F119 propels the F-22 Raptor; the fighter is powered by dual F119 turbofan jet engines. The F-22 entered service in

the Air Force eight years ago.

The Raptor's engines are scheduled for programmed depot maintenance upon reaching 4,325 total accumulated cycles, Mr. Thompson said. (A cycle spans the period from when the throttle is shifted from down to full military power and back down again.) Raptor engines have begun reaching the TAC threshold, he said.

The first F119 engine sent to Tinker was completed last December, the Oklahoma City Air Logistics Complex received two of the engines

this year and expects two more before the year is out, Mr. Thompson said.

PDM takes 13 to 14 months to complete, he said. This includes total teardown of the modules and their various components.

The F119 has five modules – fan, gearbox, core, low-pressure turbine, and nozzle – that are disassembled and repaired here. The modules, in turn, have 405 components, Mr. Thompson said. “We route these to our back shops or elsewhere for repairs.” Some of the component repair work is proprietary and, consequently, is performed by the engine manufacturer, Pratt & Whitney, or by some particular contractor.

F119 workload at the



Aircraft mechanics Ira McFadden, left, of the 548th Propulsion Maintenance Squadron, and Mike Blackmore of the 76th Propulsion Maintenance Group torque the diffuser on an F119 jet engine. The diffuser is where the jet fuel is atomized, or reduced to a fine spray. (U.S. Air Force photo by Mike Ray)

OC-ALC is projected to double in the years ahead, Mr. Thompson

said: eight engines in FY2014, 16 in FY2015, and 32 in FY2016.

“We have 23 mechanics working on these engines” in the heavy maintenance center and by FY2017 the 76th PMXG will have 75 to 80 mechanics working on F119 engines, Mr. Thompson said. “And that’s just the front shops” disassembling the modules, he added; it does not include scores of mechanics who will be needed in the back shops to repair the various components removed from the modules.

In a related matter, 76th PMXG mechanics have been performing some Raptor airframe repairs for the past year.

F-22 Airframe Mounted Nozzle Side-wall repair capabilities on liners and structures were transferred from the supplier, Pratt & Whitney, to the Oklahoma City Air Logistics Complex, over a 30-month transition period that concluded in August 2012. This has brought an estimated 37,000 hours of repair work annually to Tinker mechanics.

## ATA makes donation to Tullahoma High School due to blood donation



Mark Brandon (left), an Aerospace Testing Alliance (ATA) Instrumentation and Diagnostics Manager, and Leslie Myers (center), a Comprehensive Occupational Resources (CORE) registered nurse (RN) for ATA, present a check to Tullahoma High School (THS) Executive Principal Mike Landis. Brandon was one of 96 AEDC employees who volunteered to donate blood to the Red Cross during the August 19 – 23 blood drive at AEDC. To help promote the blood drive, names of ATA personnel who signed up to donate blood were submitted for a random drawing for a \$500 donation in the person's name to the school of their choice. Brandon's name was drawn and he requested the donation be made to Tullahoma High School. According to Myers, coordinator of the blood drives, this is a 35 percent improvement from the last Red Cross visit in March. ATA General Manager Steve Pearson has announced that ATA will also provide the same \$500 incentive program for Blood Assurance's visit Oct. 22-25. (Photo by Jacqueline Cowan)

## Milestones

### 40 YEARS

Philip Jacobs, ATA

### 35 YEARS

William Cathcart, ATA  
Douglas Hamilton, ATA

### 30 YEARS

Willie Bryant, ATA  
Ramesh Gulati, ATA  
Angela Gunn, ATA  
Nita Hargrove, ATA  
Charles Lester, ATA  
Robert Russ, ATA  
Sabrina Williams, ATA

### 25 YEARS

Bobby Dunbar, ATA

Joel Reynolds Jr., ATA  
Nelson Tate, ATA  
Donald York, ATA

### 20 YEARS

Troy Blevins, ATA  
Geoffrey Griffin, ATA  
Thomas Hall, ATA  
Juergen Joellenbeck, ATA  
Jacky Young, ATA

### 15 YEARS

Bobbie Arnold, ATA  
Jason Klepper, ATA

### 10 YEARS

Trence Hitchcock, ATA

Jonathan Lister, ATA  
Brian Pittman, ATA  
Catherine Plunkett, ATA  
Robert Stevens, AF  
Thomas Sweeney, ATA

### 5 YEARS

John Fisher II, ATA

### INBOUND MILITARY

Col. James Krajewski

### OUTBOUND MILITARY

Capt. Timothy Calver  
Lt. Col. Leland Davis  
Capt. Drew Miller

### RETIREMENTS

Terry Cartwright, ATA  
Ronnie Hall, ATA  
John Ledbetter, ATA  
Master Sgt. Randall Lusk

### NEW HIRES

Michelle Frame, ATA  
Sonja Hayes, AF  
Ray Kelly, ATA  
Daniel Lee, AF  
Patrick Leccese, AF  
Michelle Licata, AF

### PROMOTIONS

Eric Brumley, ATA  
David Garrett, ATA  
Christina Norman, ATA



Cathcart



Hamilton

## 40th FTS expands A-10 fuel limitations in combat

By Samuel King Jr.  
Team Eglin Public Affairs

**EGLIN AIR FORCE BASE, Fla.** – The dreaded fuel light, either blinking or glowing red indicating low on gas, becomes a constant reminder that a stoppage of the drive, trip or mission is imminent. The A-10 section of the 40th Flight Test Squadron is testing the expansion of the Thunderbolt II's fuel capability to prolong its flight time, remain in the fight and keep that fuel light off a while longer.

In 2012, Air Combat Command requested testing, via the Air Force Seek Eagle Office here, to possibly expand the A-10 carriage limits of its 600-gallon fuel tank with all existing fuel tank configurations such as various weapon loads.

"Currently, the A-10 doesn't carry an external fuel store into combat," said Maj. Olivia Elliott, the test pilot for the expansion. "The present flight limitations on the Sargent Fletcher tank restrict it from being flown in a combat environment."

Flight testing was accomplished on the SF tank in 1997, but it was never evaluated for combat requirements. The goal for the 40th FTS team was to



An A-10C Thunderbolt II from the 40th Flight Test Squadron, moves down the runway at Eglin Air Force Base, Fla. The aircraft is loaded up with weaponry to test the combat carriage limits of the Sargent Fletcher external fuel tank. The A-10 flight personnel are testing to ensure the A-10 can carry the tank into a combat environment safely. If proven to be safe to carry, the tank will add up to 60 minutes of flight time to its combat sortie. (U.S. Air Force photo/Samuel King Jr.)

determine if the aircraft could safely reach those combat flight limits carrying the tank, thus carrying more fuel into battle.

"By expanding the fuel carriage limits, A-10C units can carry the 600-gallon tank into combat expanding loiter time by 45-60 minutes and pushing back tanker support," said Elliott. "This will allow the aircraft to remain in flight during a

combat situation longer, provide lengthier periods of armed over-watch for ground missions, as well as limit the amount of time spent air-to-air refueling during a combat sortie."

In more than 30 missions, the tank was pushed to greater airspeeds, Mach levels and higher symmetrical (pulling Gs without rolling) and asymmetrical (rolling and pulling Gs) limits to simulate a pos-

sible combat setting.

At first, missions focused on gathering data to set the baseline for the aircraft's handling characteristics. Then other missions focused on different aircraft load configurations to ensure sound flight capability.

"The scenarios were engineered to check a variety of weapons on the A-10 and clear the tank to the expanded limits with

most combat weapons loaded on the aircraft," said Capt. Rojas, of the 40th FTS.

There have been no anomalies seen to date in the testing, according to Elliott. "The flying qualities of the aircraft show slightly reduced stability in the yaw axis; but during handling quality evaluations, there has been no decrease in aircraft tracking performance," she

said.

With only a few missions left to fly, the test team will begin the report write-up. The 40th passes on their findings to Seek Eagle. AFSEO will determine if a flight clearance can be issued. If it is, the Air Force Special Projects Office will update the A-10s flight clearance to include the expanded tank limits and the tank will be able to be used in combat.

# National Reconnaissance Office Mission successfully launches on world's largest rocket

**VANDENBERG AIR FORCE BASE, Calif.** – A United Launch Alliance (ULA) Delta IV Heavy rocket carrying a payload for the National Reconnaissance Office (NRO) lifted off from Space Launch Complex-6 at 11:30 a.m. Aug. 28. Designated NROL-65, the mission is in support of national defense. This is ULA's eighth launch in 2013, the 24<sup>th</sup> Delta IV mission and the second Delta IV Heavy launch from Vandenberg Air Force Base.

"We are truly honored to deliver this critical asset to orbit," said Jim Sponnick, ULA vice president, Atlas and Delta Programs. "The ULA Delta IV Heavy is currently the world's largest rocket, providing the nation with reliable, proven, heavy lift capability for our country's national security payloads from both the east and west coasts. I congratulate the combined NRO, Air Force, ULA, and supplier team on today's successful launch of the NROL-65

mission."

This mission was launched aboard a Delta IV Heavy configuration Evolved Expendable Launch Vehicle (EELV), which featured a center common booster core along with two strap-on common booster cores. Each common booster core was powered by an RS-68 Liquid Hydrogen/Liquid Oxygen engine producing 663,000 pounds of thrust. A single RS10 Liquid Hydrogen/Liquid Oxygen engine powered the second stage. The booster and upper stage engines are both built by Aerojet Rocketdyne. The payload was encased by a five-meter diameter (16.7-foot diameter), 65-foot, metallic tri-sector payload fairing. ULA constructed the Delta IV Heavy launch vehicle in Decatur, Ala.

ULA's next launch is the Atlas V AEHF-3 mission for the United States Air Force scheduled on Sept. 18, from Space Launch Complex-41 at Cape Canaveral Air Force



**A United Launch Alliance (ULA) Delta IV Heavy rocket carrying a payload for the National Reconnaissance Office (NRO) lifts off from Space Launch Complex-6 Aug. 28 at Vandenberg Air Force Base, Calif. (Photo courtesy of United Launch Alliance)**

Station, Fla.

The EELV program was established by the U.S. Air Force to provide

assured access to space for Department of Defense and other government payloads. The commer-

cially developed EELV Program supports the full range of government mission requirements, while

delivering on schedule and providing significant cost savings over the heritage launch systems.

## AF tuition assistance application window delayed for FY14

**WASHINGTON (AFNS)** – Airmen applying for tuition assistance in fiscal 2014 will see several changes in both eligibility for and administration of the program.

Due to these changes, the application window for classes beginning on or after Oct. 1 will not open until Sept. 9 to allow for system updates.

This program is applicable to Guard and Reserve only when they are activated.

The cornerstone of the Air Force's FY14 program will be supervisor involvement. Airmen who apply for TA will be required to obtain supervisor approval for all requests. Supervisors may deny requests for

Airmen in any level of upgrade training, if the Airman will be TDY or will be PCSing during the academic term, if the Airman is enrolled in PME or for any other factors the supervisor determines would impede the Airman's ability to complete the course.

Requests for TA for foreign language courses

will only be approved if they are part of a degree or are on the approved language shortage list. TA will not be approved for Airmen seeking a degree at the same level as they currently hold, with a few exceptions in support of certain graduate foreign language/affairs programs, cyber law master's degrees and multiple Community College of the Air Force degrees for Airmen who hold multiple enlisted Air Force specialty codes.

"Air Force leaders worked very hard to develop a TA program that provides the best opportunities for Airmen and meets Air Force needs. Higher education continues to be a cornerstone of Airmen's development at all levels," said Kimberly Yates, the Air Force Voluntary Education chief. The Air Force instruction

for voluntary education will be rewritten to reflect these changes.

Failing to meet Air Force standards will impact an Airman's eligibility. TA requests from Airmen who have unfavorable information files, failed/overdue physical fitness testing, received referral performance reports or are on a control roster will automatically be denied.

The fundamental financial benefits of TA are unchanged. Airmen who are approved to receive TA may receive up to \$4,500 per fiscal year and a maximum of \$250 per semester hour including tuition and allowable fees.

"The changes to TA in FY14 require Airmen and their supervisors to more actively engage in managing academic pursuits and goals," said Russell Frasz, the director of Force De-

velopment. "This will help leaders ensure Airmen take advantage of academic opportunities while balancing their goals with mission requirements."

The Air Force Virtual Education Center will undergo significant modifications to accommodate these changes, which has driven a delay in the opening of the application window for FY14 courses from Aug. 1 until Sept. 9.

"The delay will help us test the system and ensure it is user friendly and will work smoothly for Airmen," Yates said. For the first time, Airmen in the field are involved in testing the updated system and providing feedback to make it as user friendly as possible.

Airmen should contact their base education office for more details or for assistance in applying.

## AF e-Learning offers free self-development 24/7

*AFMC Manpower, Personnel and Services*

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio** – AF e-Learning is a robust, on-line, self-development tool that is free and available to active duty and government civilian Air Force employees 24/7. It contains a large, searchable collection of free on-line courses, books, simulations, and other e-learning resources for your self-development – whenever and wherever you have the need and time. Below are just a few of the features accessible via AF e-Learning:

- **Thousands of on-line courses:** Choose one of the many short courses accessible from your desktop 24/7 to maximize your time while advancing your self-development.
- **Books 24x7,** an on-line library of searchable content: Read a book and recommend to a colleague or set up feeds to notify you when new books arrive plus much more.
- **Mobile "On the Go" options:** Download certain content to your smart phone, Kindle, or iPad.
- **Leadership Knowledge Center portal:** Use one of the topical learning roadmaps with links to related books, articles, courses, video challenges, simulations, and professional sites such as:
  - The Center for Creative Leadership
  - Harvard Business School
  - Hale Chief Executive Leadership Institute
  - Wharton Center for Leadership and Change Management
  - Leadership Now
  - Forbes

These resources are free and available on-demand from any Common Access Card-enabled computer through the Air Force Portal. From the Portal home page, go to Top Portal Links and select Education/Training/Force Development.

# California ANG deploys Predator to support firefighters

By Donna Miles  
*American Forces Press Service*

**WASHINGTON (AFNS)** – With wildfires continuing to rage around Yosemite National Park, the California National Guard has deployed a remotely piloted aircraft that improves the incident commander’s ability to monitor conditions on the ground.

Defense Secretary Chuck Hagel approved the use of an MQ-1 Predator to support firefighters battling the Rim Fire that has expanded to more than 160,000 acres, Air Force Lt. Col. Thomas Keegan, California National Guard public affairs officer, reported.

The California Air National Guard’s 163rd Reconnaissance Wing deployed the Predator yesterday, and it is being flown in direct support of the incident commander under the command and control of

Army Maj. Gen. David S. Baldwin, California’s adjutant general, Keegan said.

The aircraft, flying from the Southern California Logistics Airport in Victorville for up to 22 hours without landing, will capture and deliver real-time 24/7 information on remote portions of the wildfire.

“The impact of this will be significant,” Keegan said. “It will identify where fire activity is located and how it is moving, as well as where it has been controlled.”

The aircraft also will identify safe routes of retreat for firefighters on the scene and verify new fire created by lightning strikes or floating embers. This, Keegan explained, will help the incident commander stay on top of the changing situation on the ground and make the best use of available resources.

Keegan emphasized that the images will be used only to support firefighting

operations.

The aircraft’s pilots, located at March Air Reserve Base in Riverside, Calif., will remain in constant contact with Federal Aviation Administration air traffic controllers from takeoff to landing and fly over unpopulated areas whenever possible, he said. The flight path generally will be limited to 30 nautical miles of the Rim Fire area, and whenever it flies outside the restricted airspace for the fire, a manned plane will escort it.

Meanwhile, nearly a dozen aircraft and crews from the California Air and Army National Guard are battling wildfires across Northern California.

California Army Guard helicopter crews and California Air Guard air tanker crews are working in coordination with the California Department of Forestry and Fire Protection and U.S. Forest Service firefighting crews to battle the Ameri-

can, Swedes and Rim fires, Keegan reported.

In addition to two UH-60 Black Hawk helicopters supporting operations at the Rim Fire, three Black Hawks are battling the American Fire and two Black Hawks and one CH-47 Chinook helicopter are flying in support of the Swedes Fire, Keegan said.

Another Black Hawk – with a specialized crew and a hoist for extracting injured personnel from rugged terrain – is staged in Redding, Calif., on call for medical evacuation support throughout Northern California.

At the Rim Fire alone, the helicopter crews have completed 905 drops, releasing more than 450,000 gallons of water and fire retardant since the crews were activated Aug. 17, Keegan said.

In addition, Air National Guard crews are using two C-130J Hercules air tankers to fight the

Rim Fire. Both aircraft are equipped with the Modular Airborne Firefighting Systems II and are capable of discharging 3,000 gallons of water or retardant in less than five seconds. Since their activation Aug. 13, the air tankers have completed 122 drops, releasing more than 333,000 gallons of retardant, Keegan said.

“In times of crisis, it is imperative we pull together as a united front against the threat of wildfires in our state,” Baldwin said, noting that the California Guard regularly trains for the mission.

“Working together in a climate of cooperation with (state officials), our soldiers and Airmen are committed to preserving the lives and property of our neighbors who are threatened by this emergency,” he said.

The Rim Fire is not the first in which California has used remotely piloted aircraft technology to support firefighting. In 2007,

NASA piloted a similar unmanned aircraft in response to a request from the California Office of Emergency Services and the National Interagency Fire Center.

Those flights were conducted during daytime hours, complemented by nighttime imaging flights from NIFC’s Cessna Citation and an Air Force Global Hawk, both equipped with an earlier-generation infrared camera. Pilots in a ground control station at NASA Dryden controlled the flights via satellite links.

NASA conducted additional remotely piloted aircraft missions in 2008, to monitor wildfires in Southern California, and in 2009, to assess fire damage in Angeles National Forest.

The current mission, officials said, is the longest sustained mission by an unmanned aircraft in California in support of firefighters.



# Training system brings fight to F-16 pilots



Two U.S. Air Force F-16 Fighting Falcons from the 35th Fighter Wing conduct Suppression of Enemy Air Defense training over Misawa Air Base, Japan, Feb. 14, 2013. Pilots at Misawa received a Joint Deployable Electronic Warfare Range to be placed at Draughton Range, an area located only 10 nautical miles north of the base where pilots are authorized to drop live ordnance during training. (Photo by Jake Melampy)

By Senior Airman Derek VanHorn  
35th Fighter Wing Public Affairs

**MISAWA AIR BASE, Japan (AFNS)** – Ground-breaking advancements to F-16 Fighting Falcon warfare training here arrived during the week of Aug. 12 through 16 in the form of a Joint Deployable Electronic Warfare Range, or JDEWR.

The JDEWR is a weapon system that provides tactical-level training to participants in live training events. It's implemented as a threat capable of submitting ground threat defenses for bilateral and joint missions and exercises for

United States Air Force, Japan Air Self-Defense Force and Navy aircraft stationed here, according to Lt. Col. Kevin Jones, 35th Operations Support Squadron director of operations.

The mission of the 35th Fighter Wing is the Suppression of Enemy Air Defenses – known as the Wild Weasels – and focuses largely on the neutralization of enemy Surface to Air missile sites. In the past, Wild Weasels have had to fly to Red Flag exercises over Eielson Air Force Base, Alaska, which use the JDEWR system, to get the most accurate training possible for their SEAD mission.

“As a SEAD wing, we need to be able to detect, locate, engage and kill enemy SAMs, anti-aircraft artillery and their associated radars,” said Capt. Matthew Karmondy, an F-16 pilot in the 14th Fighter Squadron who has flown in multiple Red Flag exercises. “The more our training matches reality, the better we’ll be when the balloon goes up and we are called on to neutralize enemy threats.”

Karmondy said once a SAM is located, the next step is how to best neutralize that threat, whether it be through avoidance, electronic jamming or kinetic means such as bombs, missiles or guns. Pilots were previously

forced to simulate these attacks, and one of the realities was that the aspect of realistic feedback from the ground always fell short. Now, with this new system, pilots can fight back realistically, utilizing all aspects within the cockpit.

“That’s exactly what the JDEWR allows us to do - train like we will fight in major combat operations,” Karmondy said. “Short of putting missiles and bullets in the air, the JDEWR fights back. It’s a hugely important asset.”

Capt. Travis Smith, 35

OSS electronic warfare officer, said the JDEWR can simulate up to seven different target systems simultaneously in its current configuration.

“It’s rapidly re-deployable as well, so we could have vastly different set ups for the pilots to fly against from exercise to exercise in our own backyard,” Smith added.

Before the JDEWR’s arrival, Jones said “We didn’t get to see a real threat on the radar looking at us – nothing triggered our radar warning receiver. But now the ar-

rival of the JDEWR gives the ability to actually get a spike and act accordingly to that threat.”

Having the equipment here for a realistic threat environment also postures Misawa to potentially host large scale exercises in the future, boosting value in regional training with other military assets.

“Joint and bilateral training is significant in that it’s just the reality of how we are going to go to war in today’s day and age,” Jones said.

See **TRAINING**, page 14

# National commission reviews AF 'life-cycle' manpower costs

By Col Bob Thompson  
AF Reserve Public Affairs

**WASHINGTON (AFNS)** – With a shrinking defense budget, increasingly consumed by manpower-associated costs, the Air Force of the future may be determined by how much we can afford, according to the Air Force Reserve's top officer. He stressed that finding how much an Airman's career costs through their "life-cycle" of active and reserve service is important.

The "National Commission on the Structure of the Air Force" interviewed senior defense leaders past and present on Aug. 27, to review the «fully-burdened life-cycle manpower costs» of active duty, Air National Guard and Air Force Reserve Airmen.

"The Air Force Reserve supports the Reserve Forces Policy Board findings that the cost of a Reserve Com-

ponent member is about one-third that of their Active Component counterpart," said Lt. Gen. James F. Jackson, chief of Air Force Reserve and commander of Air Force Reserve Command.

Appointed by the FY13 National Defense Authorization Act, the commission is reviewing the Air Force's structure to determine if and how it should be changed to meet future missions and funding challenges. The commission's report and recommendations are due to the president by Feb. 1, 2014.

Numerous studies have analyzed manpower costs, but the Department of Defense and various think tanks have yet to agree. If the commission can help establish the right cost model, they will be able to recommend to Congress the most cost-effective and operationally efficient ratio of Active and Reserve

Component forces.

"Reserve Component manpower costs are about 34 percent of an active duty officer and 37 percent for an active duty enlisted member annually," Jackson said based on a computer program called the «Individual Cost Assessment Model.» «The earlier the member affiliates with the Reserve Component, the lower the overall life-cycle cost," he said.

The model captures the cost of career events: recruitment, training events, permanent change of station moves, deployments, promotions, transitions between Reserve categories, changes in component affiliations such as active duty to Air Force Reserve or Air National Guard, separations and retirements.

Also, the model accounts for base pay, housing and subsistence, medical and retirement costs, training costs, moving

costs, and other compensations, entitlements and benefits. The Individual Cost Assessment Model captures the initial accession and training costs of an active duty member who may transition to the Air Force Reserve, retaining that initial investment for the nation.

«We need to move toward an agreement on manpower costs," said Jackson. «This will allow for an «apples to apples» comparison and establish common ground, moving the discussion forward to shape the Air Force's future structure.»

Also, the commission asked Jackson to provide insight into which day-to-day missions of the Air Force could potentially be shifted to the Air Reserve Component.

«The Air Force Reserve maintains a diverse portfolio of capability in all 13 Air Force Core Functions," Jackson said. «Future mission set mi-

gration could include rapidly-evolving areas such as space; cyberspace; intelligence, surveillance and reconnaissance; as well as more traditional mission sets such as Rapid Global Mobility and Global Precision Attack.»

Jackson was asked his opinion on merging the Reserve and National Guard.

"All three components, Active Duty, Air Force Reserve, and Air National Guard, are crucial to our nation," he said. "We have different [administrative control] lines and authorities, however that is okay. All three bring something to our nation's defense and that diversity serves the nation well as we have seen most recently as readiness cuts went into effect due the sequestration.»

The commission is led by the Honorable Dennis M. McCarthy, a retired Marine Corps lieutenant

general and the previous assistant secretary of Defense for Reserve Affairs at the Pentagon. The vice chair is the Honorable Erin Conaton, a former undersecretary of Defense for Personnel and Readiness and previous undersecretary of the Air Force.

«As the Air Force looks to the future, one thing is clear," said the general. «Our men and women wish to continue serving and putting their combat-tested, operational experience to use. The Citizen Airmen of your Air Reserve are ready and continue to play a key role in the Total Force of today and the future Air Force in 2023.»

He cited recent surveys by the Defense Manpower Data Center which confirm that the vast majority of reservists and guardsmen wish to continue to serve and that their employers still strongly support them.

## TRAINING from page 13

The Japan Ground Self-Defense Force has provided noteworthy assistance to Wild Weasels in recent months by opening up their SAM sites for training, albeit their availability was often limited, Karmody said.

The arrival of the JDEWR makes Misawa and its surrounding airspace a top-of-the-line training forum available 24/7.

The JDEWR is the first of its kind to be placed in Japan and will be based at Misawa's Draughon Range, an area located only 10 nautical miles north of the base where

pilots are authorized to drop live ordnance during training.

Jones said Draughon Range is "one of the best kept secrets in the Air Force," lauding its ability to provide both tactical and conventional targets, while also being the only air-to-ground range in Northern Japan.

"It's great to see pilots learn on Draughon Range by practicing their attacks and growing as pilots," said Capt. Greg Balzhiser, 13th Fighter Squadron F-16 pilot. "You can actually see the results on the ground right in front of

you rather than having to simulate the results of an attack."

35 FW pilots generally fly in two airspaces – the Charlie airspace, a massive area located along the entire northwest coast of Japan, and the Bravo airspace to the east, which encompasses the valuable Gaicho airspace.

The Gaicho airspace was made available earlier this year and has played a large role in the comprehensive and innovative efforts of Misawa AB to become globally recognized in extensive fighter jet training. Gaicho air-

space feeds off the east side of Draughon Range and expands the airspace approximately 50 miles over the Pacific Ocean to bridge the gap between Bravo airspace, providing pilots significant more space to engage in variations of combat training scenarios.

1st Lt. Dustin Carey, 13 FS F-16 pilot, said it's some of the best airspace in the world, and adding the JDEWR to the mix allows pilots to explore the full range of tactics in warfare.

"The JDEWR is absolutely imperative," Carey

said. "We're the world's greatest Wild Weasels, and now that we have the emitter we'll be able to train exactly like we fight which is absolutely incredible."

Smith said the diversity of training won't stop with the JDEWR, and systems such as fidelity simulators, different modes within the jet, and even commercial, off-the-shelf hardware are used to practice against.

"We're constantly looking at the mission set and thinking about ways to augment training so that the 35th Operations Group will be more than

ready for the fight," said Smith.

The JDEWR will be operated by contractors within Pacific Air Forces that have wide-ranging experience with Large Force Employment training, namely Red Flag, and in time will be training others to take over the operations here.

Jones said this prospect was made possible by determined coordination between 5th Air Force, PACAF and U.S. Forces Japan, and that base officials are working a plan to make this a permanent fixture here.

# Continuous bomber presence exemplifies Global Vigilance, Global Reach, Global Power

By Staff Sgt. Katherine Holt  
2<sup>nd</sup> Bomb Wing Public Affairs

**BARKSDALE AIR FORCE BASE, La.** (AFNS) – Barksdale aviators, maintainers and B-52H Stratofortress aircraft deployed to Andersen Air Force Base, Guam, the last week of August to demonstrate the United States' continued commitment to stability and security in the Asia-Pacific region.

Air Force Global Strike Command's deployment of bombers to Andersen AFB not only showcases the command's ability to conduct its mission, but also exemplifies commitment to providing global vigilance, reach and power.

"Our main mission is to deter and assure," said Capt. Michael Lopez, 20th Bomb Squadron pilot. "We are there to provide support to our allies in the region and to provide combat capability, if needed, for the Pacific Air Forces and Pacific Command."

Movement of U.S. Air Force bombers into the Western Pacific has been ongoing since March 2004,

as the U.S. Pacific Command regularly adjusts its force posture to maintain a prudent deterrent capability within the region.

"As we know, the United States has done a strategic pivot toward the Pacific," said Lt. Col. Scott Maytan, 20th BS commander. "Strategic continuous bomber presence is part of that. It is a way for B-52s to augment military forces that we have in the theater."

The continuous bomber presence showcases the 2nd Bomb Wing's ability to operate aircraft within the Pacific and support exercises, operations, and contingencies as required.

"We own 50 percent of the responsibility for this, it is shared across the B-52 community, so that's a big piece for the 2nd BW to support," Maytan said. "It's a full spectrum effort – we've got aircrew, airplanes, maintenance support and other operations support personnel that go out to make sure we are able to do the mission just like we would do it with the resources we have here at home."

The Air Force's nuclear and conventional preci-



Airmen from the 2nd Aircraft Maintenance Squadron prepare to launch a B-52H Stratofortress on Barksdale Air Force Base, La., Aug. 26. Aircrew and their crew chiefs deployed to Andersen AFB, Guam, to support the continuous bomber presence in the Pacific. The crew chiefs deployed to provide maintenance support for the B-52. (Photo by Senior Airman Micaiah Anthony)

sion strike forces can credibly threaten and effectively conduct global strike by holding any target at risk and if necessary, disabling or destroying it promptly – the key to Global Vigilance, Global Reach and Global Power.

"What we do day to day with this presence mission is show our ability to fly our airplanes around the Pacific theater and support whatever contingencies we might be asked to do," Maytan said. "The continuous

bomber presence maintains long-range strike capability in theater, so our national decision makers have assets that they can use should they ever need to."

CBP also allows bombers the opportunity to integrate into joint and coalition training exercises in the Pacific.

"We are going to go out there and continuously sharpen our skills," Lopez said. "We will have local training missions to continue training on all of our dif-

ferent combat capabilities. In addition, we will also be out there working with our partners training with them in different exercises throughout the region."

Aircrews also plan to take advantage of being in close proximity to other U.S. services, along with the opportunity to work on aviation and combat concepts.

"It is a great opportunity for us when we go out there and work with all different players in the region," Lopez

said. "Going out there we get to integrate with them to assure the Pacific."

Though they have been to Guam numerous times, Lopez says every time is a little different than the last, and they never lose the enthusiasm.

"We are excited to go out there to provide this force capability from here...to the Pacific," he said. "We are there to provide the security that is needed; and if called upon, use the firepower we provide to the nation."



Capt. Matthew Gray (right) and 1st Lt. Reed Elsbernd fly a B-52H Stratofortress over Fort Polk, La., during a Green Flag East training exercise, Aug. 21. These airmen and their machine are assigned to the 20th Bomb Squadron at Barksdale, AFB, La. (Air Force photo by SSgt. Jonathan Snyder)

## Technicians coengineer cost-saver with a spin

By Staff Sgt. Brandon Shapiro  
6<sup>th</sup> Air Mobility Wing Public Affairs

**MACDILL AIR FORCE BASE, Fla.** (AFNS) – As two aircraft metals technicians pondered the awkward and lengthy four-part paint process of the KC-135 Stratotanker's main landing wheel they said they had a eureka moment.

Staff Sergeants Alex Aguayo and Michael Rogers, aircraft metals technicians with the 6th Maintenance Squadron, co-engineered a way to centrifugally mount a KC-135's nose and main landing wheel on a rotating base to allow the entire part to be painted in a single step.

"As we watched how a wheel was painted during

a routine corrosion preventative process, we both knew that there had to be a better way," Aguayo said. "Only being able to paint one side at a time, with 13 hours of cure in-between, is just not effective."

Knowing that the wheel would need a 360-degree plane of rotation for even and efficient paint application, the two started with the construction of a heavy-duty, ball-bearing mounted turntable.

Once the turntable prototype met their strength and operational standards, they moved on to the second most important part -- the wheel mounting stand.

"We observed the paint process (of the wheel) and knew then, that the part needed to be up and off the ground," Aguayo said. "A solid, yet functional stand,

needed to be implemented."

The two crafted an angular, tri-point mounting bracket to hold the wheel and welded a base that was sturdy enough so that they could double the proficiency by adding a second wheel workstation, or WWS.

After hours of planning and multiple prototypes, the new WWS was finally complete.

"This is the kind of thing we do all the time," Aguayo said and chuckled. "We think up designs that can simplify a process and we build them. I'm just glad that we could do our part to save the Air Force money, by reducing man-hours."

When the first WWS rolled off the assembly line and over to the paint



Airman 1st Class Eric Martinez uses a newly designed wheel workstation to paint a KC-135 Stratotanker wheel, Aug 27 at MacDill Air Force Base, Fla. The implementation of the WWS reduced the paint process time by 26 hours per set. Martinez is a structures technician with the 6th Maintenance Squadron. (Photo by Staff Sgt. Brandon Shapiro)

crew, it was received with arms wide open.

"The stand is amazing, it works great," Staff Sgt. Braden Foley, a aircraft structural technician with the 6th MXS. "Before the WWS we were stuck

painting one side at a time, now we paint both sides and have cut out 13 hours of cure time. The process has been cut in half."

Because of the success that the WWS is having at MacDill AFB, other KC-

135 bases have taken a vested interest in Aguayo and Rogers design. It is quite possible, officials said, that the WWS could become a newly-benchmarked painting aid Air Force-wide.



Arnold Golf Course  
454-GOLF, 454-FOOD

Check us out on Facebook! Arnold AFB Services Golf Course

**2013 Tournament Schedule**  
Oct. 5, Season Ending Tournament

**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 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 7 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.

**Mulligan's Grill** is open 10:30 a.m. to 2 p.m. Monday through Friday and 7 a.m. to 2 p.m. Saturday and Sunday. Call ahead orders for dine in or carry out, 454-FOOD (3663).

Arnold  
Lakeside Center  
454-3350

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

**First Friday Jam** will be held at 6 p.m. Oct. 4. 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.

**Brushes and Bottles** will be held 6-8 p.m. at the GLC Oct. 15. 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. A different design will be done each month. 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 Oct. 11. Class size is a maximum of fifteen. Call 454-3350 to sign up or for more information.

Arnold Lakeside Center **Dart Tournament** finale Oct. 18. There will be a continuing points system gathered throughout the duration of the tournament, with point totals going toward the final seeding for the championship tournament. Points will be as follows: 1<sup>st</sup> place – 8 points, 2<sup>nd</sup> place – 7 points, 3<sup>rd</sup> – 6 points, 4<sup>th</sup> – 5 points, 5<sup>th</sup> – 4 points, 6<sup>th</sup> – 3 points, 7<sup>th</sup> – 2 points and 8<sup>th</sup> – 1 point. Services Bucks will be awarded to 1<sup>st</sup> and 2<sup>nd</sup> 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.

Arnold Lakeside Center will host a **Members Only Texas Hold 'Em Tournament** ends Oct. 12. Play will begin at 6 p.m. in The Landing bar. There is no cost to enter but all players must be age 18 or older. Players will be divided evenly among tables

## Cool 100 Walk/Run Begins in October 1st

Lace up your tennis shoes and get ready to log in your miles starting in October.

Using the honor system, participants who complete 100 miles before the end of December will receive a free t-shirt. Whether you prefer to use the track behind the A&E building, the trail behind the Fitness Center, or a treadmill at the Fitness Center or your home, all miles logged during this time frame may be applied to your total.

Mileage may be turned in daily or weekly to Kevin Duncan at the FC. Call 454-6440, or stop by the FC to sign-up and remember to give your shirt size.

## Fitness Center to hold 5 Card Draw October 23

Those interested in testing their luck are invited to complete the trail behind the Fitness Center anytime during the day on October 23. Participants will pick up sealed cards along the trail and return them to the FC to be opened and recorded. The top 3 hands of the day will receive a prize. Call 454-6440 for more information or if you have any questions.

## 2nd Annual Fright Fest at Crockett Cove Oct. 26

Outdoor Recreation has planned a Fright Fest at Crockett Cove for Oct. 26 beginning at 6 p.m. All ages are invited to come in costume for a bonfire where we will roast hot dogs and make s'mores.

The costume contest winners will be announced at 6:30 p.m. Remember this is a family event so costumes should be suitable for all ages. Following the costume contest, there will be a Halloween movie on the outdoor screen so bring your blankets and chairs. For those who dare to make a trek through the woods, there will be a spooky trail starting at 8 p.m. Please note that there may be some scary elements along the trail that may not be suitable for younger children.

Cost for the entire evening of fun is only \$7 for ages 13 and over. Age 12 and under may attend for free. Soda and water will be provided. Call 454-6084 to sign up for this event by Oct. 23.

## Fitness Center Launches New System, Makes Changes in October

If you visit the FC you may notice some changes the facility is implementing starting in October. New at the facility, is a Fitness on Request kiosk.

The kiosk provides virtual instructors leading exercises in areas such as Vibe Dance, Fusion Mind Body, Fit for Duty, Rev Cycling, TKO Kickboxing, Stomp Step and Kinetics. Not only will the kiosk be leading some of the group fitness classes, it is also available for use to groups of up to 10-12 individuals. You're encouraged to gather your friends or officemates to come to the FC to check out the new equipment!

Regularly scheduled classes will also receive a makeover starting in October. Group classes will take place as follows; Cycling-M/F 11 a.m.-12 p.m., led by Fitness on Request kiosk, W 11 a.m.-12 p.m., led by instructor; Yoga- M/W 11 a.m.-12 p.m., led by instructor; Interval Class-M/W/F 6 a.m.-6:45 a.m., T/Th 3:45 p.m.-4:30 p.m., all led by FC staff. Call 454-6440 if you have any questions, or stop by and see a member of the FC staff.

## Chili Cook off Returning Oct. 18 with added BBQ Cook Off



The annual chili cook off is returning to the Arnold Lakeside Center Oct. 18 with a new spin.

In addition to chili, teams may also compete in a pulled pork BBQ cook off. Teams entering the event will need to provide all of their own supplies to prepare their entry, where cooking begins at 9 a.m. Additionally, they should plan to make enough to provide samples as well as enough for final judging, taking place at 3:45 p.m. Entries made off-site will not be eligible for competition.

The ALC requires a list of all ingredients prior to the start of the event. All ingredients must be purchased or obtained from an approved, reliable source for

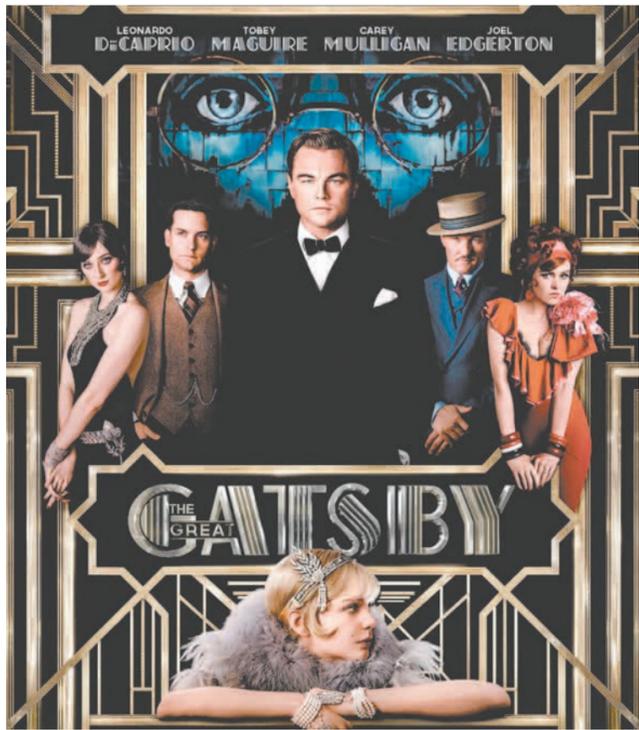
health and food safety reasons.

Teams need to be self-sufficient and make all necessary arrangements for electrical (if required), tables, chairs, utensils, containers, ingredients, etc. Power may or may not be available to contestants, so teams need to plan accordingly.

Cash prizes will be awarded in both contests, \$100 for 1st place and \$75 for second. 8ft tables are available to rent from the ALC or ODR (454-6084) for \$4 each and must be reserved in advance to ensure availability.

Costumes and booth decorations are encouraged, but not required. Official rule sheet is available upon request. Call 454-3303 to register your team by Oct. 15.

## Gatsby Style Party Coming to the Arnold Lakeside Center October 19



Calling all flappers and fellows- pull out your finest 20s attire and join us for a party worthy of Jay Gatsby himself. Beginning at 6 p.m. attendees will be greeted with champagne to enjoy a cocktail social and hors d'oeuvres.

Just before 7:30 p.m. dinner will be served in the ballroom, complete with Caesar salad, sliced ham, baby carrots, a mashed potato bar, and Daisy Fay's favorite- lemon cake. At 7:30, "The Great Gatsby," starring Leonardo DiCaprio, will begin and

guests will travel back to the days of prohibition and grand parties. Completing the event, ALC staff will announce the best dressed male and best dressed female. Other specialty drinks of the era will be available for purchase, as well as tea and soft drinks.

The cost to take part in this memorable event is \$23 member/\$25 non-member. Gather your group and reserve your spots by calling 454-3350 by Oct. 11. Costumes are encouraged but not required. We look forward to seeing you there!



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 Holly Jones

This Services supplement is published by *The Tullahoma News*, a private firm in no way connected with the U.S. Air Force, under exclusive written contract with Aerospace Testing Alliance (ATA). This supplement is an authorized publication for members of the U.S. military services. Contents of this supplement are not necessarily the views of, or endorsed by, the U.S. Government, the Department of Defense, the Department of the Air Force or ATA.

Services is an exclusive area available to all AEDC personnel, active duty, retired military, National Guard, Reserve military and others as approved by the commander. Services activities include Wingo Inn (lodging), Arnold Lakeside Center (Club, Community Center, Information, Tickets & Travel) (ITT), Barber Shop, Café 100), Outdoor Rec (Marina, FamCamp, Crockett Cove, Dogwood Ridge), Golf Course and Fitness Center. Those mentioned above are eligible to use any Services activity during regular operating hours unless it is specified as a "members only" event. Membership is a personal choice. However, only members are entitled to discounts and other benefits associated with membership.

## Services Division Phone Numbers

**Area code 931 DSN 340**

Services Chief 454-7779 Services Deputy 454-5915 Community Services Flight Chief 454-4062 Café 100 454-5885 Arnold Lakeside Center (ALC) 454-3350 Arnold Lakeside catering 454-3350 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 454-6440 Golf Course 454-GOLF (4653) Mulligan's Coffee Bar & Grill 454-FOOD (3663) Outdoor Rec (ODR) 454-6084 includes Marina, FamCamp, Crockett Cove & Dogwood Ridge
---	--

# October 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		<b>1</b> FC Cool 100 Walk/Run begins FC Interval Class 3:45 p.m. ALC AEDC Woman's Club luncheon	<b>2</b> FC Interval Class 6 a.m. ALC Café 100 BBQ lunch special \$6 FC Yoga 11 a.m. FC Cycling Class 11 a.m.	<b>3</b> FC Interval Class 3:45 p.m. ALC Movie Night "Despicable Me 2" PG-13, 6:30 p.m., dinner available 5-8 p.m. FC Interval Class 6 a.m.	<b>4</b> ALC First Friday Jam 6 p.m. FC Cycling Class 11 a.m.	<b>5</b> FC Paintball Tournament ODR Archery Basics Class, 9 a.m., \$5
<b>6</b>	<b>7</b> FC Interval Class 6 a.m. FC Yoga 11 a.m. FC Cycling Class 11 a.m.	<b>8</b> FC Interval Class 3:45 p.m.	<b>9</b> FC Interval Class 6 a.m. ALC Café 100 BBQ lunch special \$6 FC Yoga 11 a.m. FC Cycling Class 11 a.m.	<b>10</b> FC Interval Class 3:45 p.m. ALC Movie Night "Pacific Rim" PG-13, 6:30 p.m., dinner available 5-8 p.m.	<b>11</b> FC Interval Class 6 a.m. FC Cycling Class 11 a.m.	<b>12</b> FC Paintball Tournament
<b>13</b> ODR Kayaking for Beginners Class, 9 a.m., \$10	<b>14</b> FC Interval Class 6 a.m. FC Yoga 11 a.m. FC Cycling Class 11 a.m.	<b>15</b> FC Interval Class 3:45 p.m. ALC Brushes and Bottles, \$25, 6-8 p.m., sign up by Aug. 6, 454-3350	<b>16</b> FC Interval Class 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m. ALC Café 100 BBQ lunch special \$6	<b>17</b> FC Interval Class 3:45 p.m. ALC Movie Night "The Lone Ranger" PG-13, 6:30 p.m., dinner available 5-8 p.m.	<b>18</b> FC Interval Class 6 a.m. FC Cycling Class 11 a.m. ALC Chili/BBQ Cook-off	<b>19</b> FC Paintball Tournament ODR Intermediate Archery Class, 9 a.m., \$5
<b>20</b> ODR Fall Lake Tour, 12 p.m., \$7	<b>21</b> FC Interval Class 6 a.m. FC Yoga 11 a.m. FC Cycling Class 11 a.m.	<b>22</b> FC Interval Class 3:45 p.m.	<b>23</b> FC Interval Class 6 a.m. FC Cycling Class 11 a.m. ALC Café 100 BBQ lunch special \$6 FC Yoga 11 a.m. FC 5 Card Draw	<b>24</b> FC Interval Class 3:45 p.m. ALC Movie Night "Man of Steel" PG-13, 6:30 p.m., dinner available 5-8 p.m.	<b>25</b> FC Interval Class 6 a.m. FC Cycling Class 11 a.m. ALC Last Friday Trivia, 6:30	<b>26</b> FC Paintball Tournament ODR Fright Fest, 6 p.m., \$7 ages 13+
<b>27</b>	<b>28</b> FC Interval Class 6 a.m. FC Yoga 11 a.m. FC Cycling Class 11 a.m.	<b>29</b> FC Interval Class 3:45 p.m.	<b>30</b> FC Interval Class 6 a.m. FC Yoga 11 a.m. ALC Café 100 BBQ lunch special \$6	<b>31</b> FC Interval Class 3:45 p.m. ALC Movie Night "Monsters University" PG-13, 6:30 p.m., dinner available 5-8 p.m.		

### Hours of operation

**Arnold Lakeside Center:** Catering/Management offices by appointment. Operations Clerk Monday- 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 5-9 p.m.; Social Hour Friday 4-6 p.m., Movie Night Thursday 6:30 p.m. **CLOSED Oct. 14**  
**Information, Tickets & Travel (ITT):** Tuesday through Friday 10 a.m. – 3 p.m. **CLOSED Oct. 14**  
**Café 100:** Monday through Friday 6:30 a.m. – 1 p.m. Lunch starting at 10:30 a.m. **CLOSED Oct. 14**  
**Barber Shop:** by appointment – Monday, Tuesday, Thursday & Friday 8 a.m. – 4 p.m. **CLOSED Oct. 14**  
**GLC (office located at Arnold Lakeside Center):** Monday through Friday 7:30 a.m. – 4 p.m. May vary depending on bookings.  
**Outdoor Rec:** Tuesday through Sunday 8 a.m. – 6 p.m. FamCamp Store Friday through Sunday 12-4 p.m. Also open Monday when in conjunction with a holiday weekend.  
**Fitness Center:** Monday-Friday 5 a.m.-7:30p.m.; Saturday 8 a.m.-1 p.m.; Sunday Closed. **Oct. 14: Open 8 a.m.-1p.m., no classes.**  
**Arnold Golf Course:** Pro Shop & Driving Range 7 a.m. – 7:30 p.m. Closed during inclement weather. Driving Range open 24 hours with prepurchased key card. Mulligan's Grill Monday through Friday 10:30 a.m. – 2 p.m., Saturday and Sunday 7 a.m. – 2 p.m.  
**Recycling:** Monday through Friday 6 a.m. – 2:30 p.m.  
**Wingo Inn:** Monday through Friday 7 a.m. – 6 p.m., Saturday and Sunday 8 a.m. – 4 p.m.  
**Nonappropriated Funds Human Resources:** Monday through Friday 7:30 a.m. – 4 p.m

### 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 nonappropriated 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 August 2013 totaled \$5,922.91.

### BRIEFS from page H1

in random draw placement each week. The number of tables will be determined by the number of participants each week. Tables will be responsible for the deal at each table. A dedicated dealer will be provided for the championship table. As players are eliminated, the number of remaining players will be redistributed throughout the night to make as many even-number tables of players per game until the final eight. Placement points will be determined by finishing ranking

each week once the player pool gets down to the final eight players of the night. Players eliminated before final eight will not receive points. Point placement is as follows: eighth place: 1 point, seventh place: 2 points, sixth place: 3 points, fifth place: 4 points, fourth place: 5 points, third place: 6 points, second place: 7 points, first place: 8 points. A running seven-week tally of total weekly points will determine the ranking order to decide who plays in the final championship round.

The Championship Table will be made up of the top 8 players plus any ties from the seven-week standings. Winning a single week does not guarantee a seat at the Championship Table. Seats are decided by point ranking only. Play will be single elimination. Prizes will be given to top two winners each week. Grand prizes will be given to the top three finishers in the championship. There will also be a perfect attendance finals table for anyone who did not get into the champion-

ship table but attended each of the seven week events. Prizes will be awarded to the top three finishers at the perfect attendance finals. Dinner is available every Saturday from 5-9 p.m.

**Last Friday Trivia Contest** will be Oct. 25. 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 twelve points to wager per round. Only one points 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. Whichever value is left must be used for the final question in that round.

After the eighth round, teams may wager up to their total points earned for the final question. Prizes are awarded for top finishers.

**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. **CLOSED Oct. 14.**

**BRIEFS from page H2**

**Fitness Center  
454-6440**

Check us out on Facebook! Arnold AFB Services Fitness Center

**Paintball tournament** sponsored by the Fitness Center at the Outdoor Recreation paintball course. Five man teams will compete each Saturday in October beginning at 9 a.m. and lasting until 12 p.m. Masks, paintball gun, paintballs and Co2 is provided. Winning team will receive t-shirts. Call the FC at 454-6440 to register your team.

**\* Group Class Schedule:** (for eligible users only)

**Cycling** - Monday, Wednesday, Friday 11a.m.-12 p.m.

**Yoga** - Monday and Wednesday 11 a.m.-12 p.m.

**Interval Training** - Monday, Wednesday and Friday 6-6:45 a.m. /Tuesday and Thursday 3:45-4:30 p.m.

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

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

**Did you know ODR now has disc golf?** Disc golf is a flying disc game in which individual players throw a flying disc at a target. Much like golf, the object of the game is to traverse a course from beginning to end in the fewest number of throws of the disc. The ODR course targets are portable so course location may change. Initial plans are to begin in the softball outfield behind the ODR building. Players may play for free with their own discs or rent discs from ODR for \$1 each. There are different sizes and weights of discs much like different clubs in golf to better serve the needs of the target desired. For more information on disc golf call ODR at 454-6084.

**Archery Basics Class** will be held at the Outdoor Recreation building at 9 a.m. on Oct. 5. Individuals will learn how to properly hold a bow, correct shooting technique and archery history. There must be at least two to hold the class and maximum class size is 12. The cost is \$5 and open to all ages. Call ODR to reserve your spot by Oct. 4.

**Kayaking for Beginners** is an introduction course to kayaking. Come join us Oct. 13 as we have a day on the water exploring kayaking. Meet at the Crockett Cove pavilion at 9 a.m. where guests will learn about the kayak, equipment, emergencies, and wet exits. Following the class room time, participants will 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 four hours in length. Cost is \$10 and the class is for ages ten and older. There must be at least three to take the course and no more than 5. Sign up by Oct. 11 by calling 454-6084.

**Intermediate Archery Class Oct. 19** This class will further develop the skills learned in basics of archery. The intermediate level class will focus on aim, draw and shoot. The cost is \$5, and it is recommended that everyone bring one tub sock with them to cut and make an arm guard, as the class will consist of repetitive shooting. Call 454-6084 to sign-up by Oct. 18.

**Fall Lake tour returns Oct. 20** where participants will be given a private tour of Woods Reservoir and the beautiful fall colors that take over the natural scenery. Hop aboard the SS Stewart behind the Arnold Lakeside Center at 12 p.m. sharp to take part in this two hour, tranquil boat ride. Suitable for ages 10+, cost is \$7 and seats are limited. Call 454-6084 to reserve your seat.

**Extended Stays available at FamCamp.** The FamCamp is a wooded area off of Northshore Road on the banks of Woods Reservoir with tent and RV camping. Amenities include bathhouse with shower, barbeque grills, fire rings, lantern hangers, boat launch pad, picnic and beach area, covered pavilion as well as washer/dryer service and boat docking service. There are 18 tent sites and 36 RV sites, 15 of which are pull-through. All RV sites are equipped with 30 and 50 amp 115V service. Daily rates for RV camping are \$20 during the summer and \$15 during the winter (Nov.-Apr.). Did you know that you can stay for up to three months at FamCamp? Monthly rates are \$450 during the summer 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 ft. long and 10 ft. wide and rents for \$25 per month or \$250 per year. The covered boat storage has 9 slots open. The boat storage slots are 40 ft. long and 12 ft. wide and rents for \$45 per month or \$450 per year. Both storage yards require proof of registration and insurance of item placing in storage along with a signed contract based on length of stay. Access to the storage yard will be granted at the time the contract is signed. Call for more details or to reserve your slot.

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

**Teambuilding Facilitation now available through Outdoor Rec.** Book your team building event at least two weeks in advance and customize your activities to include leadership, communication, trust, conflict resolution and more. Our kit has 289 activities and can serve up to 120 participants. Large group challenges can 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  
454-4003**

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

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

See BRIEFS, page H4

**October Movie Schedule**

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



**Oct. 3** – “Despicable Me 2,” rated PG (1 hr. 38 min.) starring Steve Carell, Kristen Wiig and Benjamin Pratt. Gru is recruited by the Anti-Villain League to help deal with a powerful new super criminal.



**Oct. 10** - “Pacific Rim,” rated PG-13 (2 hr. 11 min.) starring Idris Elba, Charlie Hunnam and Rinko Kikuchi. As a war between humankind and monstrous sea creatures wages on, a former pilot and trainee are paired up to drive a seemingly obsolete special weapon in a desperate effort to save the world from the apocalypse.



**Oct. 17** – “The Lone Ranger,” rated PG-13 (2 hr. 29 min.) starring Johnny Depp, Armie Hammer and William Fichtner. Native American warrior Tonto recounts the untold tales that transformed John Reid, a man of the law, into a legend of justice.

**Oct. 24** – “Man of Steel,” rated PG-13 (2 hr. 23 min.) starring Henry Cavill, Amy Adams and Michael Shannon. A young itinerant worker is forced to confront his secret extraterrestrial heritage when Earth is invaded by members of his race.



**Oct. 31**- Special edition movie night, showing “Monsters University,” rated G (1 hr. 44 min.) starring Billy Crystal, John Goodman and Steve Buscemi. A look at the relationship between Mike and Sulley during their days at Monsters University – when they weren’t necessarily the best of friends. In celebration of Halloween, this movie night will have special door prizes up for grabs, as well as candy for the kids.



Movies are shown at the Arnold Lakeside Center

**The Green Scene**  
*brought to you by Services Recycling Program*

**80%**  
**of what Americans  
throw away is recyclable**  
*Please Recycle*



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

**AEDC Woman's Club**

393-2552



Pictured, left to right. Patti Mathis, Liz Jolliffe, Anne Wonder and Cecilia Schlagheck studying information about German Fairy Tales.

The agenda for the October 1 meeting of the AEDC Woman's Club will be a presentation by Dr. James Davidheiser of the German Department at the University of the South at Sewanee. Dr. Davidheiser's topic will be "Why are Fairy Tales so Popular Today and Why are They so Scary?"

Dr. Davidheiser is well suited for such a presentation. He received his formal education at La Salle University and the University of Pittsburgh. In addition to the University of the South, Dr. Davidheiser has taught at the University of Pittsburgh and the University of Del-

aware. He has also taught in Germany at The University of Bamberg and The University of Mainz. He has been a member of and an officer in many distinguished organizations in the United States and Europe focused on teaching German.

Dr. Davidheiser is well prepared to speak about German fairytales, having authored several learned articles and two textbooks on the subject. This should be a very informative and entertaining program. It will be interesting to find out if the fairytales he selects have any connection to Halloween!!!

The Social Hour of the

meeting starts at 9:30 at the Lakeside Center, with the business meeting and Program at 10:00. Hope to see you there!

Reservations and cancellations for the October 1st meeting must be made no later than noon, Wednesday, September 25. You make reservations or cancellations by contacting Liz Jolliffe at 931-393-2552 or [jajolliffe@aol.com](mailto:jajolliffe@aol.com); Jane Ricci at 931-636-4152 or [dickanjane@comcast.net](mailto:dickanjane@comcast.net).

*This is a private organization which is not part of the Department of Defense or any of its components and it has no governmental status.*

Help Keep Our Information

**Secure**



**DON'T FORGET TO FEED THE BIN!**

