

Cope chosen for State Department advisory group

By Kathy Gattis
Aerospace Testing Alliance

Steve Cope, vice president for Arnold Community Council (ACC) and director of business development and marketing for Avion Solutions, Inc. in Huntsville, was recently selected for membership in the U.S. State Department's Defense Trade Advisory Group (DTAG).

"This is not only an honor for Steve and a testament to his defense industry business background, but it provides a voice for us (ACC and AEDC)," said ACC President Temple Bowling.

"The Arnold Commu-

nity Council wanted to nominate someone for membership on DTAG because we believed it would benefit AEDC by attracting business that is presently going overseas," he said.

DTAG is tasked with providing counsel to the Bureau of Political-Military Affairs.

The bureau oversees a variety of issues including defense trade, technology transfer and commercial arms sales. The goal is to protect national security without creating an unnecessary burden on those trying to do legitimate business, both within the U.S. and outside with friends and allies.

Members of DTAG are a representative cross-section of the U.S. defense industry, association, academic and foundation personnel, including technical and military experts.

"It is indeed an honor for me to be appointed by the Assistant Secretary of State to serve in this capacity," said Cope. "As I look over the titles and positions of others that serve in this capacity, I can't help but wonder how I was selected.

"This is an excellent opportunity to participate in and make recommendations to policy issues that they become law — that's exciting. Serving



Cope

for two years as the chairman of the ACC Legislative Affairs Committee prior to becoming the vice president, we sought ways to bring more testing and missions to Arnold Air Force Base.

"We (ACC) wanted to make a difference and that became one of our top priorities when we were

in Washington the past three years," said Cope. "We are making progress; however, as a member of DTAG, I believe I will be in a position to be a stronger advocate for our cause.

"In addition, my employer - Avion Solutions, Inc., an Army Aviation Support small business contractor headquartered in Huntsville, Ala., has an interest in working with foreign military sales, and this will provide me with an avenue to see firsthand how larger companies (Boeing, BAE, EADS, Raytheon, etc.) work with the State Department to help expand U.S. job opportunities into foreign

markets and grow our business."

Andrew Shapiro, assistant secretary of state for Political-Military Affairs, congratulated Cope by saying, "Your professional background, experiences and interests will enable you to be a strong contributor to the DTAG function."

Cope's term with DTAG is 2012-2014. He has been involved with the Arnold Community Council for many years as a board member and chair of the ACC Legislative Affairs team.

ACC was formed in 2000 to promote and support AEDC.

Kettle bell workout



From left, Capt. Brandon Herndon and 1st Lt. Wes Meredith, under the supervision of Kevin Duncan, AEDC Fitness Center assistant, lift kettle bell weights as part of their Crossfit program workout at the running track. (Photo by Jacqueline Cowan)

AEDC Fitness Center offers new exercise asset

By Philip Lorenz III
Aerospace Testing Alliance

The staff at AEDC's Fitness Center is excited about a new program they are offering to those who use their facilities.

Kevin Duncan, AEDC's Health and Wellness Center (HAWC) fitness assessment monitor, said the program, called Crossfit, is a strength and conditioning regimen founded in 2000 by Greg Glassman, a physical fitness coach. He developed

Crossfit specifically for law enforcement and military personnel.

"The short definition of Crossfit is that it's a constantly varied, high intensity

See CROSSFIT, page 6

Air Force general explains force structure decisions to Congress

By Tech. Sgt. Richard A. Williams Jr.
Air Force Public Affairs Agency

WASHINGTON (AFNS) – The Air Force deputy chief of staff for strategic plans and programs testified on proposed force structure changes before the House Armed Services Committee here, July 12.

Lt. Gen. Christopher Miller answered questions from members of the U.S. House of Representatives Armed Services Committee's Subcommittee on Readiness on proposed cuts and realignments of Air Force aircraft and personnel.

"In both the near term and the future, Air Force leadership is responsible for building an Air Force that advantages America and ensures success in meeting any challenge we're asked to overcome," Miller said. "Difficult choices had to be made in the budget."

The Air Force's fiscal year 2013 budget request took care to ensure the proper mix of air, space and cyberspace assets to ensure support is and will be in place to support the service's commitment to the new defense strategic guidance and is

See CONGRESS, page 7

Alcohol-based fuel used in historic A-10 test

By Minty Knighton
Team Eglin Public Affairs

EGLIN AIR FORCE BASE, Fla. – On June 28, the 40th Flight Test Squadron made history here flying the first aircraft to use a new fuel blend derived from alcohol.

"The A-10 is the first aircraft ever to fly on this fuel," said Jeff Braun, Chief for the Air Force Alternative Fuel Certification Division, at Wright Patterson AFB, Ohio.

"It flew like a usual A-10 would, without any issues," said Maj. Olivia Elliott, an A-10 pilot with the 40th Flight Test Squadron and flight evaluator for the sortie.

The fuel, known as ATJ (Alcohol-to-Jet) is the third alternative fuel to be evaluated by the Air Force for fleet-wide use as a replacement for standard petroleum-derived JP-8 aviation fuel.

See A-10, page 7

Precautionary road closure



An area of concern underneath Fourth Street at AEDC has prompted a road closure. The area is across the street from the Model Installation Building next to a raw water pit and has caused a small section of curb to sink. The road was closed July 13 as a safety precaution until an investigation is completed and repairs are made. Only a small section of Fourth Street just west of the Model Installation Building is closed, and all driveways on the street remain accessible; however, it is not possible to use Fourth Street to go from North Hap Arnold Drive to Schriever Avenue. The street is expected to reopen around Oct. 27. (Photo by Patrick Ary)

ATA voluntary reduction in force offered

ATA announced it will offer a voluntary reduction in force (VRIF) to its employees this week.

The VRIF allows interested employees to voluntarily request a layoff, often meaning the company faces fewer involuntary or forced layoffs. Budget and skill mix issues are the reasons for the VRIF.

ATA General Manager Steve Pearson, says it is too early to know if there will be an involuntary layoff later in the year.

"We are better off than we thought we would be at this point, but it is too early to declare victory," he said. "Over the next month or so as we learn more about the FY13 (Fiscal Year 2013) workload and staffing requirements, we will keep you (the ATA workforce) informed as the picture continues to clear."

ATA employs 1,850 people.

In This Issue....

AEDC Airman returns from Afghanistan
... Page 3

CSAF completes 'final flight'
... Page 9

X-47B demonstrates airworthiness
... Page 10



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
Patrick Ary, Editor
Information International Associates, Inc.,
Production Support

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.

The complex's vision: AEDC as the test complex of choice, the workplace of choice for our people and a model of environmental excellence.

**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

A message from AEDC's new commander

By Col. Raymond Toth
AEDC Commander

First off, I'd like to say how excited I am to be the first commander of the newly designated Arnold Engineering Development Complex. I look forward to leading our combined government and contractor workforce through the transition phase of Air Force Materiel Command's five-center construct as well as through the challenges facing our country as a whole over the next few years.

Theresa and I are touched by the outpouring of support from Team AEDC as well as the surrounding communities. Our local communities have astounded me by their willingness to spend time and resources to support our mission here at AEDC, and I truly look forward to

a fruitful partnership with legislators, local government officials, civic groups and the Arnold Community Council.

As a command pilot, I have bet my life on the equipment tested here at Arnold over the past 61 years. Your dedication to the mission has always enabled our warfighters to take the fight to the enemy and return home safely, as well as to train new pilots and flight test new airframes. The foundation you laid set the stage for American air and space dominance in every conflict since World War II and promises to guide us to new heights in future warfighting domains.

While most of my career was spent on the flying side of the mission, my time commanding the 46th Test Group at Holloman AFB exposed me to an



Toth

operational ground test environment much like what exists here at Arnold, so I am keenly aware of the challenges we face within the Test and Evaluation enterprise. I look forward to working closely with the other test wings of the Air Force Test Center to advocate for and strengthen ground test's role in providing unparalleled support to our nation's warfighters.

As with all newcomers, it will take Theresa and I

some time to transition to the uniqueness of Arnold, but Brig. Gen. Brewer and Deb gave us a great start, a firm foundation and a flexible action plan enabling continued test and evaluation excellence and put AEDC on a trajectory of innovative, efficient aerospace ground testing for the future. Additionally, as I've seen so far first-hand, Team AEDC has an amazing workforce which is dedicated to mission success.

My vision for AEDC is to continue the drive to become leaner, more efficient, cost-effective and transparent in our business practices. We live in a time of austere budgets, both in the Department of Defense as well as the country in general, and we must continue to develop business opportunities, both government and commercial, at AEDC. It is incumbent

on all of us to be good stewards of taxpayer dollars – we must continue to show that we add value to DOD and to the warfighter. We do this by exceeding all customer expectations in delivering sound test techniques, data delivery and analysis – making AEDC the go-to organization for aerospace ground test and evaluation.

As I make my way around the complex and the local communities, please engage with me and help me understand your role as it relates to the mission of AEDC and your thoughts on our future.

Thanks again for warmly welcoming me and my family to Middle Tennessee. I look forward to meeting our world-class workforce and ensuring our vital role as the nation's premier aerospace ground test facility continues and grows.

A shift to 'complex' and how we communicate

By Jason Austin
AEDC Public Affairs

One of Webster's definitions of "complex" is "involved or intricate." As a noun, complex refers to a whole of interconnected parts. These definitions describe well Arnold Air Force Base and the mission of the men and women who serve here. So it is ironic that our organization has been renamed the Arnold Engineering Development Complex.

However, "complex" also connotes something hard to figure out and communicate. For years people have prided themselves by say that Arnold is the best kept secret in the Air Force. Maybe the diverse and vital mission was just too unwieldy to explain. In today's austere budget environment, however, staying a secret isn't a viable option.

It is our obligation to the American taxpayer to tell

them how we're using the resources they have entrusted to us and explain how what we do is relevant to their life. You see, for some folks 'complex' means too difficult to understand – so why bother. We must explain how the tests we perform play a vital role in our national defense in easy to understand language.

When we communicate with someone about our work we are given an opportunity to be proud of what we do – after all we perform – no kidding – rocket science out here. Every day, Team AEDC influences the future of aerospace technology – whether it's the craftsmen who ensure the equipment can physically get us to the edge of the envelope; the scientist who defines how much further we can go; or the support staff who ensure both have what they need to accomplish the mission.

Ultimately, we must own the story. The vast major-

ity of the test programs we run at AEDC can be shared with the public both inside the aerospace industry and in our communities. With a little effort, we can meet both our customers' and our own communication needs while protecting sensitive and proprietary information.

To meet our obligations, seize opportunities and shape perceptions about AEDC, we must do four things:

First, the public affairs and multimedia team has already begun to prioritize work with more emphasis on test-related products. This will inevitably lead to a degradation of other services currently offered with reduced coverage of ceremonies and community events. And as always multimedia resources will only be used for official Complex-related business. Hard choices have to be made and it makes sense to focus on the Complex's

core mission.

Second, the public affairs office will begin building relationships and communicating added value to customer public relations teams. This will allow us to focus our efforts on what the customer needs and desires to communicate while ensuring we gain the recognition for our part in their project. This is where every employee who interacts with a test customer must ensure public affairs has the customers' point of contact to coordinate messaging and release of information.

Third, project managers must process all test photos and videos for public release, realizing there is a system in place to ensure we do not release classified, sensitive and proprietary information. The old adage "a picture is worth a thousand words" is more relevant in today's fast-paced news cycle. In every case where a customer's test article is

shown, the customer will be the final say in the release of a photo or video after the product has been approved for release through the test, industrial security and information protection staffs.

Finally, public affairs will work hand-in-hand with the mission area leaders to ensure we have clear and concise customer-oriented messaging. We'll leverage the imagery and video products provided by the project managers to communicate our messaging in our marketing materials, news releases, website and during our interaction with media, our customers' public relations teams, and members of Congress.

By taking these actions, we will ensure the complexity of Arnold and the nationally vital mission is understood well by our stakeholders from national leadership and industry partners to those we live amongst in our local communities.

Chief's Perspective: Analog leadership in digital times

By Chief Master Sgt. James Roy
Chief Master Sergeant of the Air Force

WASHINGTON (AFNS) – The United States Air Force is the world's most advanced air, space and cyberspace force. Most of that can be attributed to you – our outstanding Airmen – but technology also plays a huge role. Advanced tools help us maintain an advantage over our adversaries. Technology has enabled our continuing success.

However, technology also threatens to cripple us.

As electronic communication becomes more widely used, our face-to-face interaction skills are beginning to suffer. We know how to text, Skype, and FaceTime, but some of us seem reluctant to engage in a meaningful face-to-face conversation.

We value technology because it saves us time, provides conveniences and helps us to be more ef-

ficient. But we must also recognize its potential to strip us of critical human connection skills.

This high-tech challenge has a low-tech solution. We need to strike a balance; we must continue to emphasize the importance of technology – a resource we cannot and will not stop exploiting – and at the same time emphasize the importance and value of analog leadership.

Analog leadership means temporarily putting down the iPads and Android tablets, logging out of Facebook and Twitter, and switching phones to airplane mode to stop the stream of texts coming in and out. It means shutting off the technology and talking to each other.

Face-to-face. One-on-one.

Real human interaction – yes, for some of us it may be

awkward at first, but getting to know each other better is an investment that will yield incalculable returns. Stronger connections will create a foundation on which we can grow more meaningful relationships.

And then we can turn the devices back on and use them for their intended purpose: to augment and add value to our real-life relationships.

As Airmen, we have to understand how to use technology, because without it we are not as well-equipped to do our jobs. However, as human beings, we also have to understand how and when not to use technology, because when distracted by it we are not as well-equipped to relate to others.

Thank you for your service and your continued dedication to duty. I look forward to seeing you face-to-face as I travel around our great Air Force.



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://lapro.arnold.af.mil/PORTAL/images/Smoking_area_map.pdf. Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

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.

Senior Airman Eric Ball aims for the future

By Philip Lorenz III
Aerospace Testing Alliance

One of the military's most effective recruiters is often a person's older brother.

Senior Airman Eric Ball is the first to acknowledge that joining the Air Force was not on his mind, until his brother enlisted in the Air Force's security forces and told him about the work and the educational benefits.

When the Atlanta, Mich., native did decide to join the Air Force, he had his sights set on "a flying job," but learned he was partially colorblind during his medical exam.

As a result, Ball's choice of Air Force job choices "went from a lot to a little."

Determined to make a go of it regardless, Ball, AEDC's financial services technician, said, "I've always had an interest in business and finance, and so I picked this one out of five or six [other choices]."

Ball, who just returned from a six-month deployment to Afghanistan, has always aimed high.

"Academically I'm finishing my bachelors [in business management]," he said. "I'll be done in September. I'm just a few classes away and then I'll start my master's program at the beginning of the year."

He is considering pursuing his masters in business administration.

Regarding a future with the Air Force, he hasn't decided yet which path he will pursue.

"I don't know if I want to apply to go to officer training school (OTS) or get out and go in the Reserves, or get out completely and become a civilian," he said.

Ball, who has actively sought out mentors while at AEDC to help him chart a course going forward, has impressed the officers he met while at Arnold.

"Eric does a great job of interacting with [people of] all ranks and roles at AEDC, and his genuine concern for others makes him a great officer candidate," said Capt. Alex Henning, a project manager with AEDC Test



Senior Airman Eric Ball poses for a photo with an Afghani carpet merchant on Kandahar Air Base during a six-month deployment to Afghanistan, an experience Ball said was invaluable and allowed him to forge strong friendships with people from all over the world. (Photo provided)

Technology Branch. "To pursue school while working full-time isn't an easy thing to do. His commitment to higher education is a great example for others."

Ball said deploying to Afghanistan was also an educa-

tional experience but a very sobering one.

"It was my first deployment," Ball said. "It was like going from one end of the spectrum to the other. I went from basically no military here at AEDC to work-

ing with military from all over the world, working for NATO.

"You could walk down a corridor and you'd hear a conversa-

See BALL, page 4

Air Force Sustainment Center activated at Tinker AFB

Air Logistics Center becomes logistics complex

TINKER AIR FORCE BASE, Okla. – The Air Force Sustainment Center was officially activated during a ceremony here July 10. In the same ceremony, the Oklahoma City Air Logistics Center was re-designated a complex and became part of the AFSC.

Gen. Janet Wolfenbarger, commander of Air Force Materiel Command, officiated as command of the center was handed to Lt. Gen. Bruce Litchfield, who was also promoted from major general to lieutenant general in the ceremony.

As the Air Force's focal point for sustainment of all Air Force weapon systems, the center is part of an AFMC construct that consolidates the command's number of centers from 12 to five.

The center activation and re-designation was announced in November 2011 and is a major part of AFMC's response to a Congressional challenge to find efficiencies and save tax dollars. By consolidating overhead, the command will improve the way it accomplishes its mission, ultimately providing better support to the warfighter. The restructure will standardize processes and save about \$109 million annually.



In front of a crowd of hundreds of Airmen, family, former Center leadership, and state and local officials, the Oklahoma City Air Logistics Center was redesignated the Oklahoma City Air Logistics Complex and aligned under the newly activated Air Force Sustainment Center. Lt. Gen. Bruce Litchfield, AFSC commander, received his third star during the ceremony, which was presided over by Gen. Janet Wolfenbarger, Air Force Materiel Command commander. (U.S. Air Force photo/Margo Wright)

"AFSC and its people will continue to be critical to AFMC achieving its mission of providing warfighter support," General Wolfenbarger said. "The work done across all AFSC locations is important not only to the AFMC mission, but to the greater Air Force mission as well."

Under the leadership of General Litchfield, the center will consolidate oversight of the command's sustainment mission now carried out within air logistics

centers at Tinker, Robins AFB, Ga., and Hill AFB, Utah, along with the Air Force Global Logistics Support Center at Scott AFB, Ill. The three logistics centers will be re-designated as air logistics complexes. The missions at each location will continue at their respective bases, but without command staffs, thus eliminating layers of management overhead.

While saluting the rich heritage of the Oklahoma City Air Logistics Center, General Li-

tchfield said activation of the Air Force Sustainment Center unveils a new horizon "rich with opportunities and expectations."

"How we support combat airpower is what really counts," said the general. "Mission capable and ready weapons systems are what is required to fight and win our nation's wars. And that is what AFSC will deliver. Our Air Force also needs us to be more efficient

See AFSC, page 7

AFTC's priority: Efficiently delivering capabilities

By Laura Mowry
Edwards AFB Public Affairs

EDWARDS AIR FORCE BASE, Calif. – After 61 years of rich history and an unwavering commitment to provide the warfighter with the most advanced systems and technologies, the Air Force Flight Test Center, re-designated as the Air Force Test Center, will function as a cornerstone in the Air Force Materiel Command's 5-Center construct. AFTC will oversee developmental test and evaluation at Edwards, Eglin AFB, Fla. and the Arnold Engineering and Development Complex, Tenn.

This is not the first time developmental test and evaluation processes have experienced transition. Changes to the process began happening before World War II to better meet the needs of the warfighter and nation's defense.

For example, after historic aviation milestones such as the breaking of the sound barrier, the Air Force Flight Test Center was established to meet the Air Force's need for more structured flight test.

"The establishment of the Air

Force Flight Test Center in June of 1951 acknowledged that this was already the center of Air Force flight test with an experienced group of test professionals," said Dr. Stephanie Smith, AFTC historian. "This codified the center's mission of executing flight test on aircraft and aircraft systems."

The AFFTC is home to a long list of aviation accomplishments and milestones, such as Pete Knight's fastest X-15 flight at Mach 6.70.

Under AFFTC leadership, Lt. Col. N.K. Dyson completed more than 50 flights for the highly classified low-observables program, known as HAVE BLUE, which ultimately led to the development of the F-117A Nighthawk program, a revolutionary development in stealth capabilities.

In September of 1985, then Maj. Wilbert "Doug" Pearson successfully shot down the P78-1 satellite, orbiting more than 300 miles above. The precise mission required Pearson to fly an F-15 at high subsonic speeds over the Pacific Ocean, climb at a steep angle, and then launch a three-stage anti-satellite missile -- an impressive demonstration of the

AFFTC's real-world impact.

Since its inception more than six decades ago, the AFFTC has overseen the first flights of more than 150 aircraft, responded to time-sensitive needs by developing new weapons systems to be rapidly deployed to the warfighter, and continuously pushed the envelope to make aircraft and systems not only safer, but more capable, efficient and effective.

Although the history of the AFFTC is incredibly rich, developmental test and evaluation for the United States Air Force is an important mission shared by Edwards, Eglin and Arnold.

"For all of the things that have been done at Edwards over the years, you could go to Eglin and find the same story with weapons systems. Often times there's some overlap in terms of flight test. Things have been tested at Edwards and Eglin. That is why the integration of the developmental test and evaluation community is so important," said Dr. Joseph Mason, AFTC chief historian.

Recognizing the benefits of integrating AFMC's test enterprise, the Air Force Test Center was established, changing the

mission for the former Air Force Flight Test Center and broadening its focus.

"The mission has changed and our focus is now the entire test enterprise, not just Edwards. We have to focus on all parts of that enterprise equally and can't show favoritism to any one of the locations," said Brig. Gen. Arnold W. Bunch Jr., AFTC commander. "We have to look at all aspects of test from early modeling, wind tunnel or ground test, through graduation exercise with weapons drops and flight test. All of these pieces must fit together. That is the center's focus -- the whole spectrum of test activity."

Transitioning to the AFTC is a milestone in the evolution of developmental test and evaluation, as for the first time, one center will oversee AFMC's test enterprise.

Leaders believe it will allow for standardization in processes and the ability to most appropriately allocate funding, allowing for a more efficient delivery of capabilities to the warfighter. The consolidation will maximize the effectiveness of developmental

See PRIORITY, page 8

Arnold AFB pharmacy set to close

The Arnold AFB Medical Aid Station has announced the Pharmacy is set to close permanently effective Sept. 28.

TRICARE beneficiaries may use their pharmacy benefits through Express Scripts or local TRICARE network pharmacies.

Beneficiaries who use Express Scripts will be able to receive a 90-day supply of generic medication with no co-pay and a 90-day supply of brand name medication for a \$12 co-pay.

Beneficiaries may send in their prescriptions directly to Express Scripts or their provider may fax the prescriptions to Express Scripts. Information about Express-Scripts can be found at www.express-scripts.com/TRICARE. Beneficiaries may also contact Express Scripts customer service at 1-877-363-1303.

Beneficiaries who use local TRICARE network pharmacies will receive a 30-day supply of generic medication for a \$5 co-pay and a 30-day supply of brand name medication for a \$12 co-pay.

Local TRICARE network pharmacies are CVS, Kmart, Kroger, Walmart, Rite Aid, Tullahoma Drug Store, Baker Brothers Drug Company, Bradford's Pharmacy, and Marcom's Pharmacy.

The pharmacy staff at Arnold AFB cannot transfer prescriptions to local pharmacies or Express Scripts. If you currently have a prescription with the pharmacy you will need to have your provider write you a new prescription in order to use Express Scripts or one of the local pharmacies.

Additional information and assistance is available at the Medical Aid Station. Please contact Tech. Sgt. Danielle Morris (931) 454-3829 or Alan Jones, (931) 454-3994.

AEDC's Technical Library hosting lunch and learn with Dr. Doug Garrard

By Philip Lorenz III
Aerospace Testing Alliance

The Arnold Engineering Development Complex's (AEDC) Technical Library is hosting a lunch and learn presentation on AEDC's Aerodynamic and Propulsion Test Unit (APTU) at 11 a.m., Aug. 17.

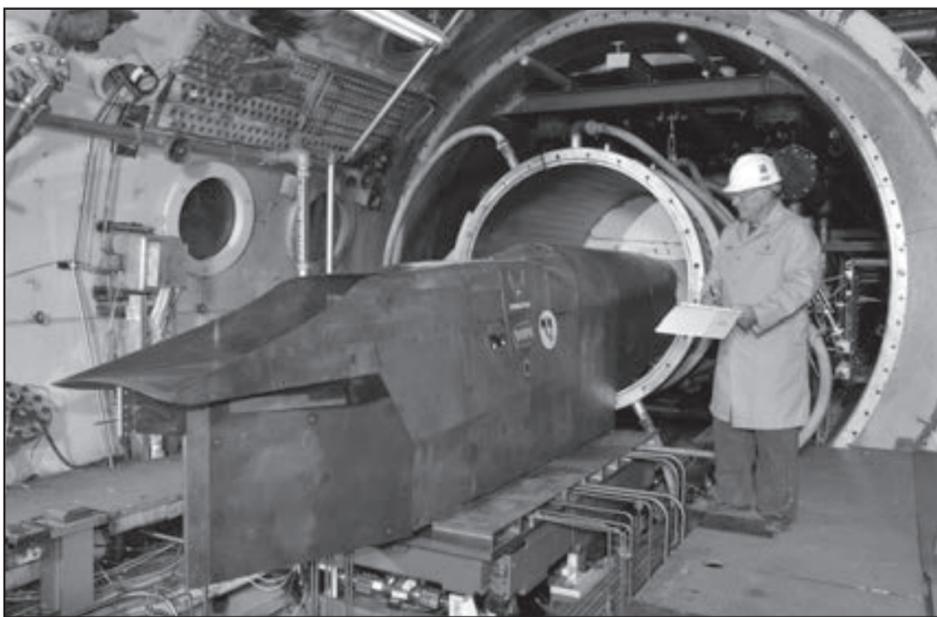
The guest speaker will be Dr. Doug Garrard, Aerospace Testing Alliance's APTU program architect and lead analysis engineer.

"APTU has some impressive capabilities for really interesting test programs that bring customers to AEDC, but a non-engineer may not know what the fuss is

about," said Fred Rascoe, Information International Associates (IIa) Inc., lead at AEDC's technical library. "He will talk about the importance of APTU without using too much engineering and technical jargon.

"This is a great opportunity for non-engineers to find out more about the test mission they are supporting."

Since space at the Technical Library is limited to about 20 attendees, Rascoe advises those interested in attending to contact him at 454-7220 or by email at fred.rascoe@arnold.af.mil or Linda Love at 454-7604 or by email at linda.love@arnold.af.mil.



Aerospace Testing Alliance Outside Machinist Everett Fulmer inspects the Defense Advanced Research Projects Agency's Falcon Combined-cycle Engine Technology (FaCET) scramjet test article in the Arnold Engineering Development Complex's Aerodynamic and Propulsion Test Unit (APTU) test cell prior to a test on Jan. 15, 2009. Dr. Doug Garrard, Aerospace Testing Alliance's APTU program architect and lead analysis engineer, will be the Technology Library's featured guest speaker on APTU's capabilities Aug. 17, starting at 11 a.m. (Photo by Rick Goodfriend)

BALL from page 3

tion over here in French, a conversation over here in Romanian, and another language somewhere else down the hall – it was eye-opening at first."

Ball worked at Kandahar Airfield in the contracting and finance office for NATO.

"If there was any contract on base that was NATO's money, then it came through our office, like anything that needed to be built or if you needed anything on base to support the mission it came through our office," he said, adding that projects they funded including the building of roads and seasonal challenges.

"We did a flood mitigation project just off base," he said. "It was pretty good because I was there during flood season, and the base flooded four or five times while I was there. Any morale events that we had on base, we

funded all of those."

Ball personally was one of the coalition troops who helped teach the children of the local Afghans on base.

"We had a school on base [with] about 75 kids there and we taught them reading, writing and English," he said. "They would come on base while their parents were selling things at the bazaar and we'd help tutor them, and that was where I felt like I was making an impact, even if it was small. I still felt pretty good about it."

One person who Ball worked with and befriended at Kandahar was Maj. Liviu Iusan, who was the Chief of the Office of the Financial Comptroller with the Romanian Army for the Ministry of Defense.

"Professionally, it was a pleasure to work with Airman Ball, a very competent and dedicated fel-

low, capable to pursue the organization's goals and his personal goals," Iusan said. "I have appreciated a lot his capacity to overcome the austere situation on the ground and his wish to move forward and to study for the next step of his career, sometimes late in the night.

"Personally working with him was very useful for me. He managed somehow to convince me to join him and go to [the] gym, not without a long struggle, as I was almost all day busy with working. After few weeks I became addicted, and I still go to gym almost daily, which is more than useful for my physical condition and morale."

Ball said regardless of where he was during the deployment, there were reminders of why coalition forces were present.

"They would fire rockets at us, probably four-five

times a week, sometimes less, sometimes more depending on the month," he said. "When you would hear the explosions it was weird to think that somebody out there [is] trying to take your life, except it's kind of [in] an indirect way because they're not shooting directly at you with a gun. But their goal is to take your life."

A more somber reminder came when Ball and others would take a bathroom break.

"I worked right on the flight-line, my building was actually the last building that the U.S. took over when we invaded Kandahar in 2001," he said. "It was the Taliban's last stand building and the U.S. dropped a bomb in the middle of it and that flushed out the rest of the Taliban.

"Now we use it for offices and stuff like that. Our building didn't have

any plumbing, so I would walk out to go to the port-a-john outside and there would be a ceremony going on where they were taking some of the fallen Americans [being transported] back to [the states]. You're going out there to go to the bathroom and all the sudden you see flag-draped caskets being loaded onto a plane. That was a pretty harsh reminder of where you were and what was going on."

One of the most enduring experiences was the friendships he forged with other coalition forces, but this was something that happened after considerable initial trepidation.

"When I got there, I said how could I ever get used to this place, this is awful," he recalled. "I was around more people from other countries than I probably was Americans. The best thing is that now I have friends from all

over the world. Once it got close to me leaving I wondered to myself, 'How am going to adjust back to life in the U.S., this is my life now.'"

Regarding his time at AEDC, Ball said the highlight has been the people he has met here.

"[I'd have to say it has] probably been the mentorship from all of the junior officers because they're more like my peer group," he said.

Ball said about three years ago they gave him a hard time about not going to college.

"That's why I started going to school," he said. "Just bouncing things off them and the mentorship from the officers has been something that probably not many other junior ranking airmen will [experience] in their careers. It's been a big benefit. They took me under their wing and it's been good."

CROSSFIT *from page 1*

functional movement workout,” he said. “Functional movements are just that, exercise movements that mimic tasks someone makes in their particular line of work. Originally this could have been a medic or soldier with a field pack carrying a wounded comrade off of the battlefield, or a downed pilot carrying survival gear to evade capture in difficult terrain.”

According to the Crossfit company’s website, “the program is not sport-specific but done correctly promotes broad and general overall physical fitness with a focus on cardiovascular and respiratory endurance, stamina, strength, flexibility, power, speed, agility, balance, coordination and accuracy.”

Duncan added, “Functional movements are important because they enable us to move large loads over long distances and do so quickly. That’s pretty much what Crossfit is.”

He emphasized that the Crossfit program is designed to allow people, regardless of their age, physical condition and ability, to adjust the workout to a level they can handle.

“You kind of set your own intensity,” Duncan said.

Ron Stephenson, sports and fitness director at AEDC’s Fitness Center, said, “These programs are generally referred to as extreme exercise programs (ECP’s).

The program is intense, but with proper supervision we can offer most exercise enthusiasts without moderate to serious joint limitations the opportunity to see major changes in muscle activation as well as increases in metabolic profile without significant risks.

“It’s no exaggeration to say that this program has been and continues to be used by tactical operations teams, military special operations units, champion martial artists, and hundreds of professional athletes worldwide. Our primary mission is to ensure our active duty personnel are physically fit for world-wide deployment and Crossfit is a major tool we offer to ensure deployment capability.”

Lance Baxter, chief of AEDC’s technology branch, discovered and started using Crossfit while he was deployed to Iraq.

“Mr. Waltermire and I are training together three mornings a week using the Crossfit program,” Baxter said. “I started when I arrived in Iraq, mostly because the person I was replacing had been doing it and I just was following his routine, but also I wanted to try to get in better shape in general.

“I am in better shape and have been more able to stick with a routine exercise program with Crossfit than I have with any other exercise plan before.”



From left, Capt. Brandon Herndon and 1st Lt. Wes Meredith, under the supervision of Kevin Duncan, AEDC Fitness Center assistant, go through a full-body exercise called a “burpee” as part of their Crossfit program workout recently at the running track on base. (Photo by Jacqueline Cowan)

Capt. Brandon Herndon, assistant director of operations for AEDC’s Space and Missile Ground Test Complex, learned about Crossfit from 1st Lt. Wesley Meredith, a developmental engineer with Arnold’s Space and Missile Ground Test Complex.

Bart Stewart, Multispectral Signature Modeling and Analysis Capability manager at the Space and Missile Test Complex, also uses Crossfit on base.

Jessica Herman, AEDC Air Force Analysis Branch’s deputy said she

learned about Crossfit from Meredith and Stewart.

“I have only been able to make it to a few Crossfit sessions so far due to my schedule,” she said. “I tried Crossfit for the first time a few months ago on their recommendation. I like the variety and intensity of the program, and hope to be able to attend more regularly in the future.”

Duncan explained how Crossfit first came to his attention.

“1st Lt. Wesley Meredith has been training for rugby and he wanted to start doing

Crossfit. So, I talked to my boss about taking a Crossfit certification course to start it here and went to that the beginning of March.

“So far, I’ve been working with Wes and Bart Stewart. Every now and then we’ll have a few more people show up to do Crossfit with us.”

Duncan acknowledged that the Fitness Center only has a limited quantity of Crossfit equipment, but he said it lays the foundation for a thorough workout.

“What we have provides the user with different

forms of resistance which mimics just about any movement one may need to rely on when deployed,” he said. “For example; an individual may be required to carry two 40 pound ammo cans in a crouched run for up to 100 yards.

“We can have that individual crouch-run with two 40 pound kettle bells for the same distance and by varying the resting interval between run sets, that individual can produce more power to accomplish the task in a real-world setting.”

Jeremy Winters named paratriathlon national champion

By Consetta Woosley
Aerospace Testing Alliance

Jeremy Winters has one word he lives his life by: perseverance.

Winters, the son of Joe and Patricia Winters, was recently named the Men’s Paratriathlon (Tri 6) National Champion. Jeremy, who is legally blind, competed in the USA Paratriathlon National Championship in Austin, Texas, in May.

“It was a long road for him,” says Patricia, Jeremy’s mother and a technical specialist in Aerospace Testing Alliance’s (ATA) Integrated Test and Evaluation Department. “But once Jeremy sets his mind to do something, you can rest assured he will work hard until he accomplishes his goal.”

Jeremy, 39, was diagnosed with the degenerative eye disease Cone-Rod Dystrophy (CRD) at age 10. CRD is an inherited progressive disease that causes deterioration of the cone and rod photoreceptor cells and often results in blindness.

“Losing his vision slowly each year helped him adjust to a different way of seeing as he grew older,” Patricia said. “Jeremy was involved in several contact

sports at a young age, and little things that occurred during the games caught our attention that something just wasn’t right.

“Jeremy is a very positive person which I contribute a lot to his dad, Joe,” Patricia said. “When he could no longer see well enough to play contact sports his dad helped him turn to track, which Jeremy really enjoys. Joe drove Jeremy back and forth to Nashville during Jeremy’s junior and senior year of high school to participate in Amateur Athletic Union (AAU) track. It was a great, positive experience for Jeremy.”

While there is no cure for CRD, Jeremy does not let his visual impairment keep him from reaching his goals ... one of which was teaching. Jeremy received his doctorate from the University of Tennessee, Knoxville and is a math education professor at Middle Tennessee State University (MTSU).

“I love my job, because the professors I work with are so supportive,” Jeremy said. “In fact, another professor in our group, Dr. Kathy Burrell, also has the same eye problem and she has been a great mentor.”

MTSU provides Jeremy with

an Americans with Disabilities Act (ADA) graduate assistant and closed-circuit television that changes normal print into over-size lettering, which allows him to perform his job.

Jeremy and his wife, Kristen, and their three children moved closer to campus when Jeremy could no longer drive. Several times a week Jeremy walks to school and then changes into his running clothes to run home.

“I get my exercise in before I ever reach home, which allows me time to play with my kids,” Jeremy said. “I ran all through high school and college so I run at the same time I practiced every day, so it doesn’t seem that unfamiliar to me.”

The idea of Jeremy participating in the USA Paratriathlon National Championship came from Melissa Miller, an engineer in ATA’s Information Technology & Systems Department.

“Melissa is very involved in marathons and triathlons and coordinates the annual Mach Tenn race here at AEDC,” Patricia said. “She helped Jeremy and his sister, Allison, participate in their first event by allowing them to

See **WINTERS**, page 8



Jeremy Winters, left, tethered to his guide, Justin Kulers, completes the 5-kilometer run as part of the USA Paratriathlon National Championship in Austin, Texas. Jeremy placed first in his division making him the Men’s Paratriathlon (Tri 6) National Champion. (Photo provided)

CONGRESS from page 1

fiscally in line with the Budget Control Act, Miller said.

He reiterated Air Force decisions were strategy driven and work was done to balance the force to ensure proper deployment-to-home-station dwell ratios for the active and reserve component better aligned with Department of Defense deployment guidelines.

“[For] an active-duty Airmen, the standard is

to deploy one period deployed for every two non-deployed,” Miller said. “Guard and Reserve; one period deployed for five non-deployed. And so the active duty force is expected to perform at a higher rate of deployment.”

When reduction decisions were made, Miller said, Air National Guard and Air Force Reserve leadership were involved in deciding where adjustments needed to be made in re-

gards to realigning assets.

“We are a total force, and we are deeply, irrevocably and successfully integrated. We are committed to staying that way,” Miller said. “We are also committed to building an Air Force that continues to reflect air, space and cyber capabilities that fundamentally depend on the effective employment of appropriately organized, trained and equipped active, Guard and Reserve Airmen.”

AFSC from page 3

and we will do that too.”

General Litchfield acknowledged the work required to prepare for today’s activation and expressed his appreciation for how leadership and planning teams across the enterprise worked together.

“Because of the planning effort, I am confident that we are in better shape to manage our mission under the new sustainment center then we were 30 minutes ago.”

Summarizing that mission, the general simply said: “We generate Airpower.”

Establishment of the AFSC at Tinker and the Air Force Life Cycle Management Center at Wright-Patterson AFB, Ohio, along with the re-designation of the Air Force Test Center at Edwards, AFB, Calif., are the first major steps of a transition phase during which center frameworks will be built and units

will be assigned, leading up to initial operational capability on Oct. 1. Full operational capability is planned for mid-2013.

The sustainment, life cycle management and test centers will be joined by the present Air Force Research Laboratory at Wright-Patterson and the Air Force Nuclear Weapons Center at Kirtland AFB, N.M., to complete AFMC’s five-center lineup.

Historic A-10 flight

An A-10C Thunderbolt II flies over the Gulf Coast June 29 marking the second flight of an aircraft powered solely by an alcohol-derived jet fuel blend. ATJ, or Alcohol to Jet, is a cellulosic-based fuel. It can be derived using wood, paper, grass, anything that is a cell-based material. The sugars extracted from these materials are fermented into alcohols, which are then hydro-processed into the aviation-grade kerosenes used for aviation fuel. (U.S. Air Force photo/Staff Sgt. Joely Santiago)

A-10 from page 1

Before ATJ, other alternative fuels included a synthetic paraffinic kerosene derived from coal and natural gas and a bio-mass fuel derived from plant-oils and animal fats known as Hydroprocessed Renewable Jet.

ATJ is a cellulosic-based fuel. It can be derived using wood, paper, grass, anything that is a cell-based material. The sugars extracted from these materials are fermented into alcohols, which are then hydro-processed into the aviation-grade kerosenes used for aviation fuel.

The Fischer-Tropsch SPK blend has been fully certified by the Air Force for operational use throughout the Air Force. All testing of the bio-mass HRJ has been completed and formal coordination is underway to certify it

as an approved fuel agent.

Like ATJ, the bio-mass fuel was first tested by 40th FLTS in 2010, using the same A-10 test platform.

“The A-10 is an excellent platform for testing the new fuel due in part to its segregated fuel system,” said Capt. Joseph Rojas, A-10 test engineer. “The system allows one engine to run off a fuel supply that is completely segregated from the other engine. This allows us to fly with one engine on the new fuel and the other on traditional fuel. If engine operation is normal, as with the ATJ blend, then we progress to flying with both engines on the new fuel.”

The A-10 ATJ fuel test went through similar ground and flight tests, using a mixture of the alternative fuel and the standard Air Force JP-8.

Ground-based testing included monitoring engine performance and ensuring all data correlated favorably to both the technical requirements and JP-8 fuel specification. Flight tests included analyzing aircraft performance during controlled accelerations and climbs and operational maneuvering.

The Air Force has recently approved fleet-wide certification efforts of the ATJ fuel blend. Once the AFCD completes all air and ground testing, the ATJ will be approved as an official alternative fuel source for Air Force use.

“Eventually, it is possible that aircraft will see JP-8 consisting of all these alternatives,” said Braun. “You won’t be able to determine the difference and you won’t care, because all perform as JP-8.”

In pairs



A pair of F-22 Raptors pulls away and flies behind a KC-135 Stratotanker after receiving fuel off of the East Coast July 10. The 1st Fighter Wing at Joint Base Langley-Eustis, Va., received their first two Raptors in January 2005 and the wing's 27th Fighter Squadron was designated as fully operational in December 2005. The Raptors belong to the 27th FS and the KC-135 belongs to the 756th Air Refueling Squadron at Joint Base Andrews, Md. (U.S. Air Force photo/Master Sgt. Jeremy Lock)

SecAF Donley speaks to Airmen at Spangdahlem AB

By Staff Sgt. Daryl Kneer
52nd Fighter Wing Public Affairs

SPANGDAHLEM AIR BASE, Germany (AFNS) – The Air Force's top civilian leader met 52nd Fighter Wing leaders and service members here July 13.

Secretary of the Air Force Michael Donley visited the base as part of a familiarization tour and to speak with Airmen about the unique capabilities Spangdahlem Air Base provides to the European theater of operations.

"Our Air Force and our country need you to be great at what you do every single day," Donley said during an Airmen's Call. "You're demonstrating that here at Spangdahlem. You deserve to be proud of your important work here, and we are certainly proud of you."

"Thank you all for your service to the United States Air Force," said the secretary.

During his visit, Donley toured base facilities, listened to a mission briefing from the 52nd Fighter Wing commander, Col. David Julazadeh, and ate lunch with more than 50 wing Airmen.

At the lunch, the secretary said he regretted not being able to personally speak with each Airman at the base, but that group settings enabled him to publicly recognize service members for their leadership abilities and contributions to mission success.

It is an exciting time to be an Airman in the Air Force, Donley said, and while there are challenges – fiscal constraints, height-

ened operations tempo, force reshaping – he is proud to serve with the nation's finest.

He explained that Air Force senior leaders monitor and develop the big picture, strategic vision and the way ahead for the entire force, but that it was the Airmen at the major command, wing and unit levels who are the real testament to America's airpower.

"It's about the Airmen who accomplish the mission 24 hours a day, seven days a week," he said. "We appreciate the work they do day in and day out."

Donley also spoke about the future of fighter operations, saying the force is continually looking for ways to modernize capabilities to maintain and sustain world-class military power. At the

PRIORITY from page 3

test and evaluation, which should benefit the warfighter, as well as the taxpayer.

"This is an opportunity to look across these very professional organizations and identify best practices in business operations, customer interaction and warfighter support. We will apply those processes across all locations where feasible so we're more efficient and effective. We intend to improve our performance and what we're delivering to the program offices and in the end, what AFMC is delivering to the warfighter," said Bunch.

"AFFTC has done a remarkable job supporting warfighters. We have taken Global Hawks that were in developmental test and when called upon before they were ever finished, deployed testers and contractors down range to support operations. All other locations have done similar things to support the warfighter. The overall impact to the warfighter should be more timely and efficient

test execution," he continued.

Although the journey of transitioning will not happen overnight, Bunch looks forward to working with the men and women throughout AFMC's test enterprise to put best practices forward and continue the traditions of excellence together.

"I look forward to working with the men and women of the test center to set this off on the right foot so we are successful. This, I believe and many believe, is really a great step to provide better support to the warfighter," said Bunch. "Our focus is no longer limited to one location. It's that diversity of mission, culture, and successes that I believe will merge us into a more efficient and effective organization."

Although change can be difficult, the transition provides a unique opportunity for members of the AFFTC to share knowledge, resources, and processes that better serve the nation and create an impressive legacy for the new organization.



Secretary of the Air Force Michael Donley speaks to 52nd Fighter Wing Airmen during an Airmen's Call at Spangdahlem Air Base, Germany, July 13. During his visit, the secretary learned about the mission of the 52nd FW and the unique capabilities the base provides to the European theater of operations. (U.S. Air Force photo/Senior Airman Matthew B. Fredericks)

same time, the force must balance those capabilities among cyber, space and aerospace realms, he said.

Five to 10 years from now, the Air Force will be even stronger, said Donley. He explained that the

service's senior leaders made a decision at the strategic level to reduce the size of the force but still retain specific, relevant capabilities for any current or future contingency while also leaving room

for modernization. The path to having a smaller, smarter and more capable Defense Department branch relies upon the development and education of junior Airmen, added the secretary.

WINTERS from page 6

ride close together on their bikes so Allison could be his guide. After that Melissa researched rules and races so that he could continue to participate in racing events."

Jeremy is also very thankful for Melissa's assistance.

"Melissa has helped in so many ways," Jeremy said. "I wanted to contact her first when I came home to let her know how the

race went and to thank her for putting me in contact with the right people."

The 750-meter swim, 20-kilometer bike, 5-kilometer run race required the contestants to prequalify with a successful completion of a sprint distance triathlon in two hours or an Olympic distance triathlon in four hours.

Jeremy's division (Tri 6: Visually impaired) required each participant to

have a handler or guide of the same sex present throughout the race. The guide serves as the athlete's eyes for the race. Participants were also required to use a tandem bicycle and be tethered to their guide while also wearing black-out shades during the run so that everyone's sight would be the same – totally blind.

"I knew I wanted to compete in the race," Jeremy said. "But I just wasn't

sure who would be willing to be my guide."

Jeremy asked a close friend and his daughter's soccer coach of six years, Justin Kulers, to be his guide for the race.

"With some convincing, Justin decided he would do it and started training with me for the race," Jeremy said.

Kulers had only competed in a triathlon as an individual, so he and Jeremy had work ahead of them to complete the race as a duo. As a duo, both needed to perform at the same level.

"It took a while for us to get in sync with each other's pace, because he has to constantly communi-

cate to me during the whole race," Jeremy said. "The most difficult part of the race is when I get around crowds, because I can't hear Justin's commands when we are running and riding the tandem bike."

Jeremy and Kulers completed the triathlon in 1 hour and 24 minutes, making Jeremy the Men's Tri 6 National Champion.

Also competing that day were veterans from across the country who reaffirmed that despite loss of limbs there is no loss of living life to the fullest.

"I was so inspired with other athletes who served our country and were there competing with loss of

arms and legs," Jeremy said. "You can always take other people's accomplishments and use them as a source of inspiration."

Jeremy also automatically won a spot on the Paratriathlon National Team which will compete in the ITU Paratriathlon World Championship in Auckland, New Zealand, Oct. 22.

"I'm looking forward to the world championship," Jeremy said. "I have more training ahead of me but I take everything day by day and keep God as my head Coach. Life is full of challenges for everybody, but overcoming them is what makes you successful."

CSAF's 'fini flight' a ride of remembrance

By Tech. Sgt. Samuel King Jr.
919th Special Operations Wing Public Affairs

HURLBURT FIELD, Fla. (AFNS) – When Air Force Chief of Staff Gen. Norton Schwartz climbed aboard the MC-130E Combat Talon I here July 12, for his last flight as an active duty officer, he immediately began to reminisce on his flying career with special operations and the C-130 Hercules community.

“This is more than a little sentimental for me to be back in this seat again,” the general said. “It’s a special privilege to complete my flying career on this aircraft.”

During a visit to Hurlburt Field to meet with Airmen and Air Force Special Operations Command leadership, Schwartz joined an MC-130E crew on a local training sortie, which served as Schwartz’s “fini flight” in the Air Force.

The MC-130E he flew, No. 64-0568, belongs to the 919th Special Operations Wing, an Air Force Reserve wing at Duke Field, Fla.

Schwartz, who piloted No. 568 on a memorable but arduous mission in 1982, said the aircraft holds a special place in his heart. Before boarding, he stopped and saluted the aircraft, which along with the general is also scheduled for retirement.

Many of the flight crew for the mission had either flown with him or served under him during his special operations tours. The flight engineer, Chief Master Sgt. Tyler Outten, flew with him when he commanded the 36th Tactical Airlift Squadron at McChord Air Force Base, Wash., in 1987.

“It’s very special to have you here for this final flight,

Tyler,” Schwartz said over the radio before the take-off. “It’s amazing thinking about those fun times. Who would’ve thought we’d have ended up the way we did?”

Outten said he was thrilled to engineer one more flight for his former commander.

“It was an honor and a privilege to fly the general’s fini flight,” Outten said. “I consider him one of the most respected men to wear the uniform. He has been an overarching influence to me and many other Airmen over the years. He’s a class act.”

Between an airdrop and an aerial refueling of a CV-22 Osprey over the Gulf of Mexico, Schwartz and the crew shared stories and memories over the radio, remembering the “good ol’ days.” The general said jokingly that it had “been awhile” since he had seen that Combat Talon control panel he knew so well.

Lt. Col. Thomas Miller, the co-pilot for the flight, said Schwartz knocked the rust off quickly and got down to the mission at hand.

“In his early years, General Schwartz was highly regarded as an outstanding Combat Talon pilot, and he was able to regain those same flying skills within a matter of minutes,” Miller said. “I was very impressed with his ability to adapt to mission changes. It was a true honor for all of us to share that last flight with him.”

The training flight ended with three touch-and-goes before returning to the Hurlburt Field runway where Schwartz’s wife Suzie and a group of well-wishers waited. Upon exiting the



Air Force Chief of Staff Gen. Norton Schwartz gets “hosed down” by his wife Suzie following his last flight as an active duty officer at Hurlburt Field, Fla., July 12, 2012. Schwartz flew with the MC-130E Combat Talon I crew, below, on a local training sortie during the mission. It also served as Schwartz’s “fini flight” in the Air Force. (Top photo by Staff Sgt. David Salanitri; bottom photo by Tech. Sgt. Samuel King Jr.)

Combat Talon, Schwartz received the ceremonial “hose down” before greeting his old friends and colleagues, many of whom still live in the local area.

Even though he had just completed the last flight hours of his 39-year Air Force career, afterward the general was all smiles.

“To have the opportunity to join this outstanding crew on their training sortie, for one last flight while in the Air Force, was truly special,” Schwartz said. “They are true professionals dedicated to their country, and like all our Airmen, I will always be proud to have served alongside them.”

Schwartz’s retirement ceremony will be held Aug. 10 at Joint Base Andrews, Md.



X-47B demonstrates airworthiness

Team Edwards support continues

By Laura Mowry
Edwards AFB Public Affairs

EDWARDS AIR FORCE BASE, Calif. – With the support of Team Edwards, the United States Navy came one step closer to seamlessly integrating the X-47B Unmanned Combat Air System demonstrator into aircraft carrier operations. The first test phase, which validated the X-47B's airworthiness, wrapped up May 15 after more than two years of testing.

Flight testing at Edwards was so successful, that the aircraft was able to begin carrier suitability testing before making the journey on a flat-bed truck to Naval Air Station Patuxent River, Md., where beginning this summer, the second phase of testing will be carried out.

"The Air Force Flight Test Center was clearly a major partner to Northrop Grumman and the Navy," said Brooks McKinney, Northrop Grumman public relations senior manager. "It was a great team; a very solid, positive team with everyone focused on getting the aircraft into the best shape and flying as often as possible."

Edwards will continue to shape the X-47B program, as the base will send support personnel to assist in the next phase of testing.

"The Air Force X-47 team did a wonderful job hosting the program and even lent a hand in the actual test results by providing some world-class maintenance and logistics test and evaluation support," said Lt. Col. Landon Henderson, Global Vigilance Combined Test Force director. "The Navy was so impressed by our Air Force testers they actually drafted them to help out with the program. The Air Force is assigning logistics test and evaluation troops full time to Pax [River]

and pulling them in from the 412th Maintenance Group here at Edwards."

During the program's time at Edwards, which spanned from January 2010 to May 2012, the CTF was responsible for project management oversight on behalf of the 412th Test Wing and made sure that the test program was successfully integrated into the Edwards community.

According to Tighe Parmenter, who is the Manager of Business Development for the UCAS-D program, the X-47B flew 23 times at Edwards in various aircraft configurations and flawlessly navigated the ranges of the flight envelope. Another accomplishment for the program while at Edwards was demonstrating effective command and control, which allowed for the reclassification of the X-47B from "unproven" to "experimental."

The remote location of Edwards and its 308,000 acres of land provided the ideal location, resources and infrastructure for the X-47B aircraft's airworthiness test phase. Of particular importance was the unique surface of the 44-acre Rodgers Dry Lake Bed, which provided the Navy's program with a safety net, in the event the aircraft experienced an in-flight emergency and was forced to land.

"Edwards was ideal due to the runway and lakebed landing surface arrangement, which has helped many programs perform first flights. The length and width of the main base runways, as well as the ample landing surfaces on the lakebed, provided a lot of options for recovery of the air vehicles in case it ran into trouble, which they never did," said Henderson.

According to Henderson, when the X-47B took off, it was imme-



The U.S. Navy's X-47B Unmanned Combat Air System demonstrator flies over Edwards Air Force Base, Calif., during a routine test mission. The UCAS-D program conducted the airworthiness test phase for the X-47B at Edwards, which came to a successful conclusion May 15, 2012, after more than two years of testing. Team Edwards will continue to support the program, as the 412th Maintenance Group will send personnel to Naval Air Station Patuxent River, Md., to continue supporting the aircraft carrier suitability test phase. (U.S. Air Force photo/Chris Neill)

diately able to enter its assigned airspace free from other traffic. Not only did this deconfliction reduce risks to other ongoing test programs, but it also allowed the team to build confidence in the vehicle's capability to perform as expected.

The U.S. Navy's UCAS-D program, which originally began as a program under the Defense Advanced Research Project Agency, seeks to prove that an autonomous aerial vehicle can seamlessly integrate into the highly structured, rapid and demanding operations onboard an aircraft carrier.

Carrier operations require precision, calculated lightning-fast decisions, and the ability to communicate by sending and receiving visual cues to successfully carry out the mission – a unique challenge for the UCAS-D program.

With successful completion of the airworthiness test phase at Edwards, the X-47B program took a giant step forward in making that integration possible.

"We became confident in the

airplane's performance and began doing carrier suitability work. We emulated how testing would go at Pax River and the ship," said Parmenter. "The aircraft performed touch-and-go's and heavy-weight landings. It also turned downwind, turned in pattern and came back around to do a landing, which may seem fairly benign but it's rather unusual for unmanned aerial systems."

According to Parmenter, once the X-47B gets new software it will begin preparing for two upcoming carrier demonstrations scheduled for December of this year and April of 2013. During these, the X-47B will validate its ability to land on the moving flight deck of a carrier and seamlessly blend in to the environment dominated by visual cues.

"The carrier environment is currently driven by hand signals and voice communications. The UCAS-D team must translate that visual world into unambiguous digital instructions so there is precision communication at all times between the aircraft and ship, and is prepared to respond

correctly to all situations," said McKinney.

Additionally, an autonomous aerial refueling demonstration is scheduled for 2014.

With only 11 aircraft carriers in the United States Navy inventory, aerial refueling would give them the capability to go just about anywhere in the world. Also, the tailless, fighter-sized X-47 is capable of carrying a payload of up to 4,500 pounds giving the Navy a potential strike capability.

"The Navy wants to make sure the airplane will work with the aircraft carrier – it has to work right the first time. The design must be carrier compliant and be absolutely integrated seamlessly to the aircraft carrier environment. No special rules; same rules of engagement; rhythm of the flight deck; space limitations; landing; getting in line and taking off," said Parmenter. "This aircraft really represents a much more autonomous vehicle. It establishes a whole new confidence level and really advances the technology."

Air Force museum to receive NASA's Crew Compartment Trainer

By Rob Bardua

National Museum of the U.S. Air Force

HOUSTON (AFNS) – After many months of intensive planning, the first steps have been put in motion to move NASA's first Shuttle Crew Compartment Trainer from Johnson Space Center to the National Museum of the U.S. Air Force.

CCT-1, which was one of three trainers built to train astronauts for space missions, is scheduled to arrive at the museum, which is located at Wright-Patterson Air Force Base, Ohio, later this summer.

For more than 30 years, CCT-1 was housed in Johnson Space Center's Space Vehicle Mockup Facility in Houston. It was used to train crews from STS-1 through STS-135 as a high-fidelity representation of the Space Shuttle Orbiter crew station for on-orbit crew training and engineering evaluations. Using the trainer, astronauts learned how to operate many of the orbiter sub-systems in more than 20 different classes.

In order to prepare the more than 24,000-pound trainer for flight to the museum, engineers first needed to design a specialized adapter to allow it to be transported on NASA's Super Guppy aircraft. Ac-

ording to Jill MacGregor, the Space Vehicle Mockup Facility mockup manager, planning to move an object that wasn't designed to be moved again after it had arrived at Johnson Space Center has proven quite challenging.

"Really the most difficult part of moving the CCT-1 is coordinating all of the different parties involved," said MacGregor. "You've got folks from Johnson Space Center transportation who are going to box-up all of the small items; you've got JSC Riggers who do all of the lifting and the truck moves; you have aircraft loadmasters and engineers who have to be involved with how to orient the trainer into the aircraft, how to chain it down and how to analyze all of the loads to make sure it flies safely."

The shipping process began with the removal of all of the items from the inside of CCT-1, which will be shipped to the museum separately. The trainer was then recently shrink-wrapped to protect it from the elements. Current plans call for CCT-1 to be loaded onto a truck soon and stored in the nearby Light Manufacturing Facility. From



The NASA Crew Compartment Trainer is shrink-wrapped by NASA officials in Houston on July 9, 2012, in preparation for its move from the Johnson Space Center to the National Museum of the U.S. Air Force. The museum is located at Wright-Patterson Air Force Base, Ohio. (NASA photo)

there, the CCT-1 will be transported to Ellington Field Joint Reserve Base in Texas in preparation for its flight to Ohio. At that time, it will be mounted to the adapter and flown to the museum.

"CCT-1 was designed to turn vertical and it has some structure on the bottom that is not even, so that makes it a challenge to put it on a truck and drive it up to Ellington Field while keeping

it low enough to the ground to avoid hitting trees along the way," MacGregor said. "And all of the moves have to be done in the middle of the night because of traffic concerns."

After arrival, museum and NASA technicians will offload the trainer, reassemble the interior and place it on interim display in the Cold War Gallery. Later, CCT-1 will be moved to a new Space Gallery in the

museum's planned fourth building.

According to retired Lt. Gen. Jack Hudson, the director of the National Museum of the U.S. Air Force, the CCT-1 will be a great addition to the museum because the Air Force has been a major partner with NASA in space.

"CCT-1 will really help us tell the story of the Air Force in space, and by doing that it will motivate,

educate and inspire our youth toward the Air Force as well as in careers in science, technology, engineering and math," said Hudson.

According to Hudson, plans call for the museum to build a mock-up of the payload bay and when the CCT-1 exhibit is completed, it will allow the public to have a look into the

See NASA, page 13

F-35 stores testing at Edwards AFB



F-35 tail number AF-1 underwent stores static ejection testing at the F-22 Combined Test Force recently. The aircraft is carefully positioned over a pit filled with foam, and instrumented inert weapons are released from the aircraft. This type of testing, also known as pit testing, allows the engineers to evaluate how the aircraft is physically affected by the release of the weapon, as well as the how the onboard stores management computers work. Pit testing is a pre-requisite to in-flight weapons release testing. The F-35 CTF tested both a Joint Direct Attack Munition (JDAM) and an Advanced Medium-Range Air-to-Air Missile (AMRAAM). AF-1 drops a 2,000-pound JDAM for stores static ejection testing. The dot stickers on the aircraft and weapon are part of a complex camera system that accurately measures and models the aircraft's motion. A series of high speed cameras surround the F-35 and photograph each store release. (U.S. Air Force photo/Paul Weatherman)

White House launches SAVE Award competition

WASHINGTON (AFNS) – The White House's fourth annual Securing Americans Value and Efficiency Award competition launched July 10 as part of the Obama administration's ongoing effort to modernize government.

The SAVE Award will run July 10-24.

In 2009, the president established the SAVE Award to seek cost-cutting ideas directly from federal employees.

According to Deputy Secretary of Defense Ashton Carter, federal employees have submitted more than 75,000 cost-cutting ideas over the past two years, and those ideas are making a difference.

"Already, agencies are saving hundreds of millions of dollars, rooting out redundancy and waste, and making government more efficient, effective and ac-

countable to the American people," Carter said.

Dr. Jamie Morin, the acting undersecretary of the Air Force, in an email to all Airmen, added that he thanks the many Airmen who participated in prior years, and encourages all Airmen to take time to consider and submit their good ideas this year.

Employees with ideas about how their agency can save money and perform better should submit them through the SAVE Award website, www.whitehouse.gov/save-award.

The winner will be invited to the White House to present his or her idea to President Obama, and other ideas will be included in the president's next budget submission.

Any questions about the SAVE Award should be directed to DoD-SAVEAward@osd.mil.

Little Rock gets electronic flight bags, saves paper, money

By Staff Sgt. Jacob Barreiro
19th Airlift Wing Public Affairs

LITTLE ROCK AIR FORCE BASE, Ark. (AFNS) – Airmen at Little Rock Air Force Base, Ark., received 721 iPads to be used as electronic flight bags for C-130 Hercules aircrews July 2, as part of Air Mobility Command's effort to reduce paper waste and costs by replacing flight bags and loads of paperwork they hold with the electronic tablets.

This marks the beginning of a six-month trial period of the devices, which aircrew members will use to store publications and other paperwork electronically, rather than carrying them onboard in a flight bag. The tablets are scheduled to become ubiquitous across the base by December.

Moving from a paper-based electronic flight publication system to an

electronically-based system cannot only improve operational efficiency and safety, it can save the Department of Defense significant time and money.

"A publication bag can weigh anywhere from 60-80 pounds," said Master Sgt. Brandon Bowers, 19th Operations Group evaluator flight engineer. "Just one of them costs more than an iPad. The tablets will give us more information with less weight, while saving money and conserving resources."

Every aircrew member will eventually have one of these tablets for duty, if everything goes as planned, but right now the base is just a leading wing for the testing phase of the plan, and unforeseen circumstances could impede progress.

The tablets were pre-

sented months after the Air Force awarded a \$9.6 million contract, giving them the option to buy as many as 18,000 tablets if they choose to.

The savings from printing flight documents and distributing are estimated by Mobility Air Forces at approximately \$5 million annually. The National Geospatial-Intelligence Agency and the Air Force Materiel Command are responsible for printing and distribution of the required paper aeronautical documents needed by Air Force flying crews.

According to Letitia Long, the NGA director, the Air Force is the agency's largest account holder, with a total annual budget for flight paper of \$20-24 million. By moving to an electronic format, a significant annual savings for the DOD Enterprise can be realized.



Col. Brian Robinson, left, receives the first iPad at Little Rock Air Force Base Ark., July 2. iPads are part of Air Mobility Command's effort to reduce paper waste and costs by replacing flight bags and the loads of paperwork they hold, with the electronic tablets. Robinson is the 19th Airlift Wing commander. (U.S. Air Force photo/Airman 1st Class Rusty Frank)

Space Safety Division enables full-spectrum combat space capabilities through mishap prevention

By Maj. Justin White
Air Force Safety Center

KIRTLAND AIR FORCE BASE, N.M. – When it comes to safety in the Air Force, much of the focus on mishap prevention goes into preventing and investigating slips, trips and falls. Ground safety applies to every member, regardless of their primary duty, and all can benefit from practicing prescribed safety methods in their everyday lives.

However, many vital Department of Defense missions have recently come to rely heavily on a variety of capabilities provided by Air Force satellites. To help protect those assets, the Air Force Safety Center stood up the Space Safety Division in 2004. Given the U.S. public's high reliance on satellites for navigation, the high cost and relatively long timeline to build and launch satellites, it's vital that the American taxpayer and warfighter get as much useful life from these assets as possible.

The primary mission of the Space Safety Division is to enable full-spectrum combat space capabilities through mishap prevention. As the lead for Air Force space safety, the division is responsible for overseeing the safe development, operation and maintenance of Air Force space assets, to include ground-based systems. This includes coordination of space safety principles and policies among national and international space-faring entities.

But even with the best safety practices, mishaps occur from time to time. And when they happen with space assets, a significant amount of government time and taxpayer dollars are lost. In the last 10 years, there have been only three Class A space mishaps – mishaps that have direct costs exceeding \$2 million and/or directly caused a fatality. While none of those mishaps contributed to any

deaths, they cost more than \$24 million combined.

Space mishaps also create capability gaps caused by not having the satellite on orbit for use. Whether the lost capability is communication, surveillance or navigation, there are troops in the field counting on using these space assets. Hence, in addition to costing dollars, space mishaps greatly degrade all missions that had planned to use that satellite.

One very real hazard to satellites is space debris. With more and more countries getting into the space-faring arena, it's only natural that greater numbers of satellites and pieces of space debris have remained on orbit. There are currently more than 22,000 items at least the size of a softball being tracked. Sometimes owners of two live satellites can deconflict their operations to prevent a possible collision. But when two pieces of debris or dead satellites are headed for each other, there is little that can be done. When collisions create more debris, there's even more potential for hazards.

With the wide variety of hazards to satellites and other space systems, the Space Safety Division focuses on mishap prevention through a variety of ways. For example, the division teaches a space-centric portion of the Board President, Chief of Safety and Mishap Investigation Non-Aviation courses conducted at the safety center. This training provides space professionals the tools needed to prevent mishaps and, in the event of a mishap, identify what happened and why it happened.

The division is also the office of primary responsibility for Air Force Instruction 91-217, Space Safety and Mishap Prevention Program, and performs all necessary reviews, updates and re-writes. In order

See **SPACE**, page 14



Maj. Justin White, deputy chief, Space Safety Division, Air Force Safety Center, takes a look at reentered space debris from a Delta II rocket motor recovered in Thailand in 2005. The division is responsible for enabling full-spectrum combat space capabilities via mishap prevention. The potential for a space mishap increases as more debris is added to the 22,000-plus pieces that are tracked. (U.S. Air Force photo)

NASA from page 12

cockpit and mid-deck areas of a shuttle and learn how astronauts trained for their missions.

"Visitors will actually be able to walk up inside the payload bay mockup and see everything up close, and also really get an idea what the crew station was like, how big it was and how it was designed," Hudson said.

The new Space Gallery, where the CCT-1 will eventually reside, is a part of a multi-phase, long-term expansion plan and will house the museum's growing space collection.

The gallery will include a Titan IV space launch vehicle, Mercury, Gemini and Apollo spacecraft, and many recently retired NASA artifacts such as a nose cap assembly, landing gear strut and a variety of astronaut equipment.

In addition, a range of satellites and related items will showcase the Air Force's vast reconnaissance, early warning, communications and other space-based capabilities.

The Air Force Museum

Foundation, an IRS 501(c)(3) organization chartered to assist the National Museum of the United States Air Force with the development and expansion of facilities, is in the process of raising the funds to meet the growing requirements of the museum.

Currently, \$38.9 million has been secured by the Foundation for the fourth building project, which is expected to cost an estimated \$48.7 million.

The fourth building will house the Space Gallery, Presidential Aircraft Gallery and Global Reach Gallery, which will feature cargo and tanker aircraft.

According to MacGregor, museum visitors should be excited about acquiring the trainer as their newest space artifact.

"I think the folks in Dayton should be thrilled to have this trainer," said MacGregor. "It's been invaluable to the space shuttle program, and so it's neat that you are going to have it there for the public to see."

SPACE from page 13

to achieve buy in from their customers, they gather recommendations for edits from the space acquisition, launch, operations and research units, as they will ultimately have to follow this regulation.

Finally, with consistent interaction and periodic staff assistance visits, the division develops rapport with field units and guides them to safely execute their mission.

When a mishap occurs, the Space Safety Division provides independent guidance to the investigation board in accordance with Air Force Manual 91-222, Space Safety Investigation and Reports. Then,

the Air Force Safety Automated System database tracks all mishap findings and recommendations, ideally preventing future occurrences of similar accidents. The division works with the mishap organization to ensure they fix any deficiencies that may have contributed to the mishap.

Space mishaps are relatively rare, but very expensive in terms of dollars, time and capabilities lost. It's important that the Space Safety Division provide independent oversight of the space mission, while ensuring the safest possible use of space assets from cradle to grave.

Manpower, services agencies consolidate with personnel

By Debbie Gildea

Air Force Personnel Center Public Affairs

JOINTBASE SAN ANTONIO-RANDOLPH, Texas (AFNS) – During a formal ceremony held here today, Air Force Deputy Chief of Staff for Manpower, Personnel and Services Lt. Gen. Darrell D. Jones inactivated the Air Force Manpower and Air Force Services agencies, designating them as directorates of the Air Force Personnel Center.

The ceremony, formal recognition of the June 1 tri-agency consolidation, prominently featured the symbolic furling and unfurling of the AFPC flag as

well, said ceremony project officer Capt. Lesley Lilly.

“Although AFPC was not inactivated, it was important to illustrate that the center did not simply absorb manpower and services,” said Lilly. “The symbolic gesture illustrated that this is the consolidation of three unique organizations whose common denominator is the service they provided – and will continue to provide – to Air Force personnel. From here, an entirely new unit exists to serve Airmen.”

The decision to consolidate, announced in November, was one of several

efficiency efforts initiated by the Air Force secretary and chief of staff. Although there a fewer members now than the three-agency total prior to consolidation, this will enable the center to provide a full range of products and services for human resource management more efficiently with lower overhead cost, she explained.

“We’ll be able to efficiently, effectively serve Airmen in part because we have merged common mission functions where it makes sense,” said Maj. Gen. A.J. Stewart, AFPC commander. “But that is just one small piece of

the process. We’ve been working the plans for this merger since well before the November announcement, and once we enter full operational capability next summer, we will be structurally and functionally transformed.”

While the need to operate more efficiently was the impetus of the consolidation decision, meeting Airmen’s needs will continue to be a driving factor as AFPC works toward FOC, Stewart said.

“We are all about serving Air Force personnel, and we will continue to

See AFPC, page 15

AFPC from page 14

provide Airmen with the stellar service they have come to expect,” he said. “Airmen must focus on mission accomplishment, and to ensure they are able to do that without distraction, we must focus on caring for Airmen. We feed them, provide recreation, assess functions to determine manning needs, manage their records, assign them where they are needed and where they will best be able to grow and flourish, and we develop them into leaders.”

In spite of growing anticipation, however, solemn introspection was evident today as ceremony participants reflected on and honored agency histories and contributions to the service.

Commanded by Stewart, AFPC was initially a field extension of the Air Force Director of Personnel, established in 1963. Functional changes over the past 50 years included becoming a separate agency in 1965, merging with the manpower function in 1978 and merging with the civilian personnel center in 1995. The center managed all civilian force integration activities, from accessions to retirements and every career function between, as well as active duty military assignments and deployments, promotions, separations, records, retirements, benefits and more.

Directed by Col. Kent

White, AFMA has enjoyed a long, evolving relationship with the personnel center. Grafted to the center in 1978, manpower was originally the Air Force Management Engineering Agency. Separated from AFPC in 1986, the unit became a separate operating agency reporting directly to Air Force headquarters. A 1995 merger with the Air Force Quality Institute resulted in the Air Force Center for Quality and Management Innovation, which became the Air Force Manpower and Innovation Agency in 1999. Mission refinement and refocus resulted in the 2003 change to the Air Force Manpower Agency, which included five squadrons and two flights devoted to developing clear, data-driven manpower requirements for Air Force organizations.

Directed by Col. Thomas Joyce, AFSVA is the most recently formed agency of the three, but has roots that reach back to the Revolutionary War. Services originated as a consolidation of the morale, welfare and recreation and services programs. MWR included such functions as library services, troop canteens and sports, while services focused on billeting and food facilities rooted in the supply and civil engineer fields. In 1991 Morale, Welfare and Recreation was established as a center and later designated as a field operating agency. Ser-



Airmen from the new Air Force Personnel Center stand in formation during the Air Force personnel, manpower and services inactivation and consolidation ceremony July 17 at Joint Base San Antonio – Randolph. Air Force Deputy Chief of Staff for Manpower, Personnel and Services Lt. Gen. Darrell D. Jones inactivated the Air Force manpower and Air Force services agencies, designating them as AFPC directorates. (U.S. Air Force photo/Ben Faske)

VICES was incorporated in 1992, and the organization was renamed the Morale, Welfare, Recreation and Services Agency. In 1994 it assumed its most recent moniker – the Air Force Services Agency – reflecting its mission of service for Airmen.

Acknowledging the significance and sense of sadness inherent in such

a ceremony, Stewart rallied the troops when he reminded them of the trail they would blaze.

“The magnitude of today’s ceremony cannot be overstated,” Stewart said. “We are not just witnessing history. We are making history. The men and women of this new agency are pioneers in the transformation of defense systems. The

Air Force, the Department of Defense and the nation watch to see the outcome of this effort. We have pledged to selflessly serve with innovation. We have pledged to become more efficient with innovation and technology and to be good stewards of our precious resources. We have promised the people of this nation that we will care

judiciously for our Airmen - their sons and daughters, mothers, fathers, sisters and brothers. We will not let them down, and the efficient, fit fighting units of tomorrow will be our legacy.”

For more information about Air Force personnel issues, visit the myPers website at <https://mypers.af.mil>.

**Arnold Golf Course
454-GOLF, 454-FOOD**

Check us out on Facebook! Arnold AFB Services Golf Course

Arnold Golf Course will host the **Club Championship** for course members Aug. 25-26 with an 8 a.m. shotgun start both days. Play will be individual stroke for 36 holes. Entry fee is \$40 and includes lunch on Sunday. Cart is not included. Sign up in the Pro Shop by Aug. 23.

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

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

Mulligan's Coffee Bar & Grill is open 10:30 a.m.-2 p.m. Monday through Friday and 8 a.m.-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 Aug. 3 beginning at 6 p.m. Come to play, listen, dance and enjoy. Join in with the band to play an instrument or sing. Or take over and do your own performance.

Weekend dining room specials (all include two sides and salad bar): All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

Friday 4-9 p.m.
Aug. 3: Chicken parmesan sandwich, \$5.95 member, \$7.95 nonmember.

Aug. 10: Shrimp and catfish, \$10.95 member, \$12.95 nonmember.

Aug. 17: Casino Night Buffet, London broil, stuffed chicken, garlic mashed potatoes, rice, balsamic grilled vegetables, green beans salad, rolls and assorted desserts, \$19 members, \$21 nonmember, reservations required.

Aug. 24: Prime rib for two, \$29.95 member, \$31.95 nonmember.

Aug. 31: Monterey chicken, \$10.95 member, \$12.95 nonmember.

Saturday 5-9 p.m.
Express Menu only every Saturday.

Last Friday Trivia Contest is 6:30 p.m. Aug. 31. Teams can 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. Questions in random categories will be given and points accumulated. Prizes for top finishers.

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

**Family Member/Youth Programs (FaMY)
454-3277**

Check us out on Facebook! Arnold AFB Services Youth Programs

Camp Adventure continues. Camp Adventure is a summer day camp run by skilled professionals through the University of Northern Iowa. Camp is 7:30 a.m.-4:30 p.m. Monday through Friday.

See **SERVICES**, page H2

Tops in Blue to perform at Motlow College gym Aug. 13

Services is hosting Tops in Blue for a 7 p.m. public performance at Motlow State Community College gym.

Doors will open at 6:30 p.m., and seating is first come first available. No tickets are required for this show.

"Listen" is Tops In Blue's celebration of giving audiences the best in family entertainment. The 2012 tour invites the audience to listen to the music of life through the sounds we hear every day. It features the dynamic rhythms of The Doobie Brothers, Earth, Wind & Fire, Whitney Houston and Maroon 5.

This year's tour also showcases the great country music of Darius Rucker, Carrie Underwood, Lady Antebellum and The Zac Brown Band.

Of course, no Tops In Blue show would be complete without the great patriotic music that honors our nation and its heroes.

Add the high-energy precision chore-



ography and dazzling visual impact Tops In Blue is known for, and every member of the audience will be singing along and dancing in their seats.



ALC plans trip to General Jackson in Nashville

Arnold Lakeside Center will be taking a trip to Nashville for a midday cruise on the General Jackson Aug. 18.

The General Jackson is the world's grandest showboat that offers delicious meals and world-

class entertainment while cruising the majestic Cumberland River in Nashville.

Meet at the ALC at 9:30 a.m. The cruise will begin boarding at 11:15 a.m., departing at noon and returning at 2:30 p.m.

Shotgun Red return for another season aboard the General Jackson Showboat! This popular duo will bring their jaw-droppin', gut-

bustin' show to the stage, offering one of the most animated and entertainingly interactive shows to cruise the

Cumberland River, complete with a mouth-watering, Southern-style buffet prepared by the boat's own sous chef.

This trip is for all ages and cost is \$70 for adults and \$50 for ages 2-13. Signup deadline is Aug. 10. Cost will

be \$75 if signed up Aug. 10-13. There must be at least six to take the trip and maximum participation is 15.

Remember to bring money for souvenirs. Call 454-3303 for more information and to sign up.

Casino Night comes back to ALC Aug. 17

The ever-popular Casino Night returns to Arnold Lakeside Center for ages 18 and older.

A dinner buffet will be served from 6-9 p.m. and includes London broil, stuffed chicken, garlic mashed potatoes, rice, balsamic grilled vegetables, green beans, salad, rolls and assorted desserts.

Gaming will be from 7-10 p.m. and includes craps, roulette, blackjack and wheel of fortune.

Participants are given play money to try their hand at these games to increase their dollars, which will then be used at a prize auction beginning at 10:15 p.m.

Reservations are required for the buffet by Aug. 6. Cost for the buffet is \$19 for members and \$21 for nonmembers.

Call 454-3350 for reservations or more information.



Jewelry Fair comes to Café 100 Aug. 10

Welcome back to Café 100 for a jewelry fair 8 a.m.-2 p.m. Aug. 10 in the A&E building, Café 100. All jewelry prices are below \$20 and there will be door prize drawings for free jewelry. Pretty Discoveries also carries belts and handbags.



Battlefield Day Aug. 15 at A&E track

Battlefield Day is set for Aug. 15 beginning at 11 a.m.

This event will be a field day at the running track behind the A&E building consisting of a four-person, 400-meter relay (one lap each), 60-meter sprint, tire hammer and toss and tug of war.

The tire hammer and toss consists of hitting a tractor tire 20 full swings then flipping it as many times as possible in 30 seconds.

Services prizes will be given to the winners in each event.

T-shirts will be given to the first 30 to sign up.

Call 454-6440 for more details or to sign up.

Luau and Fishing Derby coming up

A Luau and Fishing Derby is coming Sept. 22 to the ALC beach.

Mark your calendars for this fun-filled event complete with Outdoor Rec inflatables.

Fishing will begin at 2 p.m., inflatables and games starting at 4 p.m., luau at 5:30 p.m. with dinner at 6 p.m.

Fishing is for ages 5-15 and everyone is invited to come for the fun and luau.

Watch for more details coming soon.



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

Services information written and provided by Tanya Heggard

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 Division 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, Outdoor Recreation (Marina, FamCamp, Crockett Cove), Golf Course, Family Member/Youth Programs 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 remains 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
 Complex Manager – 454-3367
 Arnold Lakeside Center (ALC) – 454-3350
 Arnold Lakeside Center catering – 454-3350
 Gossick Leadership Center – 454-4003

Hap's Pizza – 454-5555
 Café 100 – 454-5885
 Membership Information – 454-3367
 Information Tickets, Travel – 454-3303
 Fitness Center (FC) – 454-6440
 Outdoor Recreation (ODR) – 454-6084
 FamCamp – 454-6084
 Marina – 454-6084

Recycling – 454-6068
 Family Member/Youth Programs – 454-3277
 Human Resources – 454-5481
 Marketing & Sponsorship – 454-3128
 Barber Shop – 454-6987
 Wingo Inn – 454-3051
 Golf Course (GC) – 454-GOLF (4653) or 454-7076
 Mulligan's Coffee Bar and Grill - 454-FOOD (3663)

August 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>Tops In Blue to perform at Motlow College gym Aug. 13</p> <p>Casino Night is back Aug. 17. See ALC section for details.</p>			1 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	2 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "The Lucky One" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	3 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Chicken Parmesan Sandwich, \$5.95 member, \$7.95 non, 4-9 p.m. ALC First Friday Jam 6 p.m.	4 ODR Kayaking Class, 9 a.m., \$10, 454-6084 ALC Express Menu only, 5-9 p.m.
5 ODR FamCamp lake boat tour, \$5, campers only, 10 a.m.	6 FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	7 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	8 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	9 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "The Three Stooges" PG dinner 5-8 p.m. movie 6:30 p.m.	10 FC Boot Camp 6 a.m. FamY Jewelry Fair, 8 a.m., Café 100 FC Piloga 11 a.m. ALC Shrimp and Catfish, \$10.95 member, \$12.95 non, 4-9 p.m.	11 ODR Archery Basics Class, 9 a.m., \$3, ages 10+, sign up, 454-6084 ALC Express Menu only, 5-9 p.m. ODR FamCamp outdoor movie for campers, "Top Gun", 7:30 p.m.
12	13 FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m. ALC Tops in Blue, 7 p.m., Motlow College gym	14 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	15 FC Boot Camp 6 a.m. FC Pilates 11 a.m. FC Battlefield Day, A&E track, 11 a.m.	16 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Think Like a Man" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	17 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Casino Night, buffet \$19 mbr, \$21 non, 6 p.m. RSVP for dinner 454-3350	18 ODR Kayaking Class, 9 a.m., \$10, 454-6084 ALC General Jackson Midday Cruise, \$70, \$50 age 2-13, lunch & show, sign up by Aug. 10, 454-3303 ALC Express Menu only, 5-9 p.m.
19 ODR FamCamp lake boat tour, \$5, campers only, 10 a.m.	20 FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	21 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	22 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	23 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Battleship" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	24 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Prime Rib for Two, \$29.95 member, \$31.95 non, 4-9 p.m.	25 GC Club Championship, 8 a.m., \$40, 454-GOLF ODR Archery Basics Class, 9 a.m., \$3, ages 10+, sign up, 454-6084 ALC Express Menu only, 5-9 p.m. ODR FamCamp outdoor movie for campers, "Dark Shadows", 7:30 p.m.
26	27 FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	28 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	29 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	30 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "The Avengers" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	31 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Monterey Chicken, \$10.95 member, \$12.95 non, 4-9 p.m. ALC Trivia Night, 6:30 p.m.	

Hours of operation

Arnold Lakeside Center: Catering/Management offices by appointment. Cashier Monday through Friday 7 a.m.-3:30 p.m. Dinner: Arnold Express Menu or Hap's Pizza only Thursday 5-8 p.m., dinner or Arnold Express Menus and Hap's Pizza Friday 4-9 p.m. and Saturday 5-9 p.m.; Main Bar Thursday 5-8 p.m., Friday 3:30-10 p.m. and Saturday 5-10 p.m.; Social Hour Friday 4-6 p.m., Movie Night Thursday 6:30 p.m.

Information, Tickets & Travel (ITT): Tuesday through Friday 10 a.m.-3 p.m.

Café 100: Monday through Friday 6:30 a.m.-1:30 p.m.

Barber Shop: by appointment – Monday, Tuesday, Thursday & Friday 8 a.m.-4 p.m.

GLC: Monday through Friday 7 a.m.-3:30 p.m. May vary depending on bookings.

Family Member/Youth Programs: Tuesday through Friday 10 a.m.-5 p.m., Saturday 12-5 p.m.

Outdoor Rec: Tuesday through Sunday 8 a.m.-6 p.m. FamCamp Store: Friday through Sunday 12-4 p.m.

Fitness Center: Monday-Friday 5 a.m.-9 p.m.; Saturday 8 a.m.-4 p.m.

Arnold Golf Course: Pro Shop & Driving Range 7 a.m.- dusk. Driving Range open 24 hours with prepurchased key card. Mulligan's Coffee Bar & Grill Monday through Friday 10:30 a.m.-2 p.m., Saturday and Sunday 8 a.m.-2 p.m.

Recycling: Monday through Friday 7 a.m.-4 p.m.

Wingo Inn: Monday through Friday 7 a.m.-6 p.m., Saturday and Sunday 8 a.m.-4 p.m.

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 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 Chris Floden, BX manager, at (931) 454-7153 or Jeff Lillard, Commissary manager, at (931) 454-3545.

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 June 2012 totaled \$5,310.44.

SERVICES from H1

This program is for ages 5-12, and children may attend by the week through Aug. 3. Each week is set to a theme with activities and field trips planned to coincide with that theme. Morning and afternoon snacks will be provided, but parents must supply their child with a sack lunch daily. Outdoor and swimming activities are planned throughout the week, weather permitting, so it is recommended that each child bring an extra pair of clothing, swimsuit, towel and sunscreen daily. Closed toe shoes must be worn at all times during camp. Children may be dropped off no earlier than 7:15 a.m. each morning, and any child not picked up by 4:30 p.m. will be transitioned to Open Recreation and must be picked up no later than 5:30 p.m. or an additional fee of \$10 will be applied. Weekly fees are based on total household income ranging from \$55 to \$137 per week. To enroll your child, complete the application form and provide a copy of your leave and earnings statement or W2 to determine applicable fees. Other documentation required includes AF Form 1181, Youth Registration, and AF Form 1055, Medication Permission Slip (if applicable). Registration is required in advance and a separate application is required for each child attending. The remaining weekly themes, activities and field trips are listed below. Contact Youth Programs at 454-3277 for more information and to register.

Camp Adventure weekly themes and activities:
Week 8: 23-27 July, Slam Jammin' Sports

Celebration
 Batter up! Camp A athletes and coaches are off to a super start as we kick off a slam jammin' sports celebration! Join the track team to run for your personal best ... take a step up to the plate and work on super soccer skills. Everyone is a player in the All-Star line up! So get geared up to star in spectacular sports of all sorts and a week of spirit, sports and celebration!

Swim: Tuesday & Thursday
Field Trip: Friday, Tullahoma Bowling Lanes

Week 9: 30 July – 3 Aug., Earth Friendly

See SERVICES, page H3

SERVICES from H2

Extravaganza

Join our Earth Friendly Extravaganza! The Lorax is here to speak for the trees which everyone, everyone, everyone on Earth needs! Come play in the shade with the Brown Barbaloots, sing with the Swomee Swans and eat Truffula Fruits. Teach the Once-ler a lesson for once and for all. Hurry before the last Truffula Tree falls!

Swim: Tuesday & Thursday

**Fitness Center
454-6440**

Check us out on Facebook! Arnold AFB Services Fitness Center

Do you know what the **colored flag outside the Fitness Center** means? It is a safety rating for exercising outdoors based on the Wet Bulb Globe Temperature (WBGT) Index. In an effort to help prevent serious heat-related illnesses during hot weather, the U.S. military developed the WBGT Index in the 1960s. The WBGT index consists of a combination of reading from three sources giving dry, humid, and radiant heat indications. These three readings are combined in a standard formula, providing a more accurate reading of environmental heat stress. Special devices, like the one we have outside at the Fitness Center, are used to measure these readings. Note these readings are not in degrees Celsius or Fahrenheit. Below is a Flag color reading with specific WBGT from the American College of Sports Medicine:

Green Flag- Unrestricted physical activity may be performed (WBGT- less than 65). Low Risk of heat exhaustion and heat stroke.

Yellow Flag- Vigorous physical activity should be limited to those people who have been exercising in similar heat for a minimum of 10 days or more (WBGT- 65-73). Moderate risk of heat exhaustion and heat stroke.

Red Flag- Vigorous physical activity is advised only for persons who have been working out in similar heat for a period of 30 days or more (WBGT- 74-82). High risk of heat exhaustion and heat stroke.

Black Flag- Vigorous outdoor exercise, regardless of conditioning or heat acclimatization is not advisable (WBGT- more than 82). Very high risk of heat exhaustion and heat stroke.

The **running trail behind the Fitness Center** is now only accessible to badged employees. Recent base security measures have eliminated the use of running trail badges for

Fitness Center customers. The turnstile connecting the Wattendorf entrance to the mission area may only be opened by swiping an AEDC security issued badge. We apologize for any inconvenience but must follow and maintain Force Protection Conditions.

Group Class Schedule:

Boot Camp Monday, Wednesday and Friday 6-7 a.m. on the basketball court

Yoga Monday 11 a.m.-12 p.m. on the basketball court

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

Zumba Tuesday and Thursday 4:15-5:15 p.m. upstairs

Karate Tuesday and Thursday 3-5 p.m. on the basketball court

Pilates Wednesday 11a.m.-12 p.m. on the basketball court

Piloga Friday 11 a.m.-12 p.m. on the basketball court

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

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

Basics of Lake Kayaking Class will be held 9 a.m.-1 p.m. Aug. 4, 18 and Sept. 1.. This class will give you basics needed for kayaking on our brand new sit-a-top kayaks. Learn how to sit properly in the kayak, how to do proper strokes, self and assisted rescue procedures, turning methods, proper entry into the kayak and more. This training will help familiarize you with kayaking and give you the necessary tools to be safe and have fun. Make sure you wear appropriate clothing and bring sunblock, because we will be getting in the lake during this class. Participants may bring their own kayak if they have one. The class is scheduled for two hours (depending on the amount of participants and questions) and then we will take a tour of the lake. This class is for ages 12 and up and cost is \$10 per person. There must be at least three to hold the class and maximum class size is 10. Call to sign up two days prior to event.

Paintball is suspended for July and August due to summer heat. Look for it to return in September.

Archery Basics Class will be Aug. 11, 25 and Sept. 8 for ages 10 and older. The class costs \$3 and will begin at 9 a.m. Deadline to sign up is three days before each class. There must be at least three to take the course and no more than 15. This class will teach the basics of archery including how to hold a bow properly, how to shoot with correct technique and also learn

August Movie Schedule

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

				
Aug. 2	Aug. 9	Aug. 16	Aug. 23	Aug. 30
“The Lucky One,” rated PG-13 (1 hr. 41 min.) starring Zac Efron, Taylor Schilling and Blythe Danner. A Marine travels to Louisiana after serving three tours in Iraq and searches for the unknown woman he believes was his good luck charm during the war.	“The Three Stooges,” rated PG (1 hr. 32 min.) starring Sean Hayes, Chris Diamantopoulos and Will Sasso. While trying to save their childhood orphanage, Moe, Larry, and Curly inadvertently stumble into a murder plot and wind up starring in a reality TV show.	“Think Like a Man,” rated PG-13 (2 hr. 2 min.) starring Chris Brown, Gabrielle Union and Kevin Hart. Four friends conspire to turn the tables on their women when they discover the ladies have been using Steve Harvey’s relationship advice against them.	“Battleship,” rated PG-13 (2 hr. 11 min.) starring Alexander Skarsgard, Brooklyn Decker and Liam Neeson. A fleet of ships is forced to do battle with an armada of unknown origins in order to discover and thwart their destructive goals.	“The Avengers,” rated PG-13 (2 hr. 23 min.) starring Robert Downey Jr., Chris Evans and Scarlett Johansson. Nick Fury of S.H.I.E.L.D. brings together a team of superhumans to form The Avengers to help save the Earth from Loki and his army.

some history. Bows, arrows and targets will be provided but you may bring your own equipment if you have it. Outdoor Rec will be showcasing their new bows and arrows at the Aug. 11 class.

FamCamp boat tours offered. FamCamp guests have added incentive to stay on select weekends to be able to go on lake tours. What better way to spend a couple of hours on a Sunday than on a lake tour of Woods Reservoir? For only \$5 per person, take a two-hour ride around the 3,980-acre lake. While on the tour, enjoy the scenery and wildlife as you hear stories of the lake and local area. Boat tours are available Aug. 5 and 19 at 10 a.m.

FamCamp outdoor movie nights. FamCamp guests will be able to enjoy an outdoor movie for free beginning at 7:30 p.m. Aug. 11 and 25. Bring your chairs or blankets to the open grass area behind the upper bathhouse. Aug. 11 will be a throwback classic showing “Top Gun” starring Tom Cruise, Kelly McGillis and Val Kilmer. The macho students of an elite U.S. flying school for advanced fighter pilots compete to be best in the class and win the Top Gun award. Maverick struggles to be the best, oftentimes stepping on the toes of his fellow students – all while romancing the civilian instructor. Aug. 25 will showcase the new comedy fantasy “Dark Shadows” starring Johnny Depp and Michelle Pfeiffer. An imprisoned vampire, Barnabas Collins, is set free and returns to his ancestral home, where his dysfunctional descendants are in need of his protection.

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 (November-April). 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 eight open slots available in the RV storage yard. Each slot is 30 feet long and 10 feet wide and rents for \$25 per month or \$250 per year. The covered boat storage has nine slots open. The boat storage slots are 40 feet long and 12 feet wide and rent 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 lowers prices on 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-foot Double Drop Wet/Dry slide will be great for any event and is only \$150 per day. Please contact Outdoor Recreation at 454-6084 to make your reservation today!

Did you know you can **rent boats from Outdoor Rec** on Woods Reservoir? Do you have a current boating certification from Outdoor Rec? All base employees are eligible to rent our boats. All you need is the Hands-On Boat Certification Class. Come by during the week any time 8 a.m.-4:30 p.m. to watch a boating video followed by a multiple choice test. Then sign up for the hands-on portion, which is available Saturday and Sunday. This class costs \$20 and certification is valid for two years. Once

certified, you have a choice of pontoons and ski boats. Accessories available include life vests, ski rope harness, ski rope, knee board, wake board, water skis, tubes and paddles. Other rentals available from the Marina include canoe, kayak or windsurfer (certification class not required). Reservations for boat rental may be made 15 days in advance for active duty and 10 days for other eligible individuals. Call today to get on your way to fun in the sun on the lake. Call Outdoor Rec at (931) 454-6084 for prices and information.

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 (four hours) for \$50 or full day (eight hours) for \$100. Call to find out more information or book your team building event.

Trying to decide where to hold your family reunion or party? We have a few **locations with pavilions to rent** that you can choose from. There are two pavilions at Crockett Cove and one at the Arnold Lakeside Beach. Usage is for authorized personnel only. Rental fee is \$25 per day with a \$50 refundable cleaning deposit that will be charged upon reservation. Once the pavilion is confirmed to be clean the \$50 will be refunded. Reservations

may be made 30 days in advance at the Outdoor Recreation building or by 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 \$39 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.

All event coordinators are required to sign an agreement. Official unit functions are authorized at no charge and are defined as bona fide official meetings or training held as part of the normal duty day. Unofficial and private functions may be held for authorized users at a fee.

Community members may host events with the approval of the Services Director for a fee.

Outside food and beverages are not allowed. First consideration must be given to Arnold Lakeside Center. In the event they cannot accommodate, an outside source may be utilized with CCM approval. For more information contact the CCM at (931) 454-4003.

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.

