



# HIGH MACH

Serving the World's Premier Flight Simulation Test Center



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## AEDC's largest aircraft model ready for future testing

By Philip Lorenz III  
Aerospace Testing Alliance

An ongoing store separation test on "smart weapons" from the bomb bay of a new 10-percent scale B-52H model in AEDC's 16-foot transonic propulsion wind tunnel (16T) rightly has the attention of test engineers.

Prior to the test, all eyes were on AEDC designers, schedulers and machinists as they led the B-52H Stratofortress model through concept drawings to fabrication to assembly, all in record time.

As the model came together, Doyle

Veazey, the ATA store separation section manager, and Don Arrowood, the project's B-52 Program Office/SEEK Eagle Office engineer, were already considering what the future holds for the latest test asset.

"The intent was once it's built we can use it for multiple tests in the future," Veazey said. "We've had inquiries over the decades to do wind tunnel testing on the B-52. This [B-52H model] is really a success story."

Arrowood said having a ground test model of this scale, especially at this time, opens the door to future testing that

is long overdue.

"In today's fiscal environment it's essential to perform risk reduction early in the acquisition strategy," he said. "The scope of the internal weapons bay upgrade includes additions of a multitude of weapons that have previously not been released from the B-52 bomb bay."

Arrowood said it was decided that computational fluid dynamics (CFD) and wind tunnel testing would be used to develop accurate weapon release data.

"This data will be validated during flight testing," he said. "AEDC, having a historical background on 10-percent-scale

models, was gracious in accepting this high visibility concurrent model design and testing program. It was a rapid development, and AEDC took it on."

Arrowood said AEDC stands out for another reason – if the center's personnel and test facilities had not been available for these projects, the road ahead would have been challenging.

"Currently there are very few wind tunnels that have the capability of accommodating the 10-percent B-52 model," he said. "According to the B-52 SPO's

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## Inspirational racing



AEDC Firefighter Anthony Jimcoily, Firefighter/Crew Chief Dwane Kimmel, Kerry Kimmel and Assistant Fire Chief George DeShields stand behind Victoria Atwell at the 5K race. (Photo by Kerry Kimmel Photography)

## AEDC firefighters push injured girl in 5K race

By Shawn Jacobs  
Aerospace Testing Alliance

AEDC Assistant Fire Chief George DeShields and Firefighter Anthony Jimcoily finished the Nov. 5 Snyder Foundation's Cops and Kids 5K Run/Walk in

Smyrna with a time of 34:50, a respectable time for many runners.

The time was particularly satisfying for DeShields and Jimcoily, however, because they were pushing Victoria Atwell, the stepdaughter of fellow Firefighter/Crew

Chief Dwane Kimmel, in her wheelchair.

In December 2009, Victoria sustained life-threatening injuries in a car accident that also claimed the life of her dear

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## Insurance changes to save money

Wage employees, ATA and government all to benefit from AEMTC premiums

By Patrick Ary  
Aerospace Testing Alliance

The Air Engineering Metal Trades Council (AEMTC) has announced it will save its members and ATA hundreds of thousands of dollars in fiscal year 2012.

Trustees for the Aerospace Contractors Trust (ACT) voted Nov. 7 to reduce premiums on AEMTC health insurance for calendar year 2012 and voted a "premium holiday" during the month of December for ATA. Wage employees will save about \$170,000 during the last month of the year; the company will save \$615,000 in December alone.

"I think this is great news," said AEMTC President Jimmy Nance. "In these tough economic times, it's almost unheard of for insurance premiums to be going down. Most of them are going up."

ATA and the members of the AEMTC, which represents 11 unions at AEDC, fund the insurance plan.

Under a typical, fully-insured plan, ATA would pay a fixed monthly premium no matter what the usage would be. The insurance carrier would assume responsibility for paying claims and related anticipated financial risk. Because it assumed the risk, the carrier would keep any unused money at the end of the year; if there was a shortfall, a premium increase would be in order.

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## AEDC leads the way with data acquisition technology upgrade validation

By Philip Lorenz III  
Aerospace Testing Alliance

A recent ribbon-cutting ceremony at AEDC's J-1 turbine engine test cell marked a major milestone, signifying the validation of an Engine Data Acquisition and Processing System (EDAPS) upgrade.

Melissa Tate, Test Systems Division/ Aeropropulsion Systems Project Section (TTSIB) Investments Air Force project manager, described the EDAPS upgrade as a \$2 million project dedicated to developing new engine data sources for the turbine test cells. She said this is a major milestone in data acquisition for the center.

The upgrade project was a six-year endeavor to develop and validate new data sources for temperature and voltage measure-

ments. This was accomplished both in a lab setting and with more than 1,000 run-time hours and approximately 200 hours of air-on test support in the J-1 test cell on an F100 engine.

Tate said the new data sources, which are Digital Temperature Systems (DTS) and Digital Voltage Systems (DVS), will provide significant benefits to the AEDC customer.

"The new data sources are more robust and the data is more accurate," she said. "No pre-test calibrations are necessary, reducing the hours required to be worked by the test crew. Also, the modular design of these new systems reduces the energy cost – you power only what you need."

"The new data sources are not

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From left, On Sept. 22 2011, AEDC Commander Col. Michael Brewer; Melissa Tate, TTSIB Air Force project manager; Lt. Col. Brent Peavy, AEDC's Turbine Engine Ground Test Complex director; Cameron Liner, TSDIB Air Force data acquisition and network engineer; and Dr. Saeed Zadeh, Test Systems Division's Investments Branch (TTSI) director, took part in the EDAPS upgrade ribbon-cutting ceremony in the J-1 test cell. (Photo by Rick Goodfriend)

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**HIGH MACH**

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

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"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

**Core Values**

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

# OSI wants help identifying fraud

By **Michael J. Schnable**  
AEDC AFOSI Special Agent in Charge

Benjamin Franklin once said, "There is no kind of dishonesty into which otherwise good people more easily fall than that of defrauding the government."

As the Department of Defense come to grips with a constrained fiscal environment, for now and the foreseeable future, an even higher premium is placed on maximizing every budget dollar and stamping out fraud, waste and abuse. The Air Force Office of Special Investigations (AFOSI) needs your help in identifying and reporting fraudulent activities.

Besides protecting critical technologies and information, detecting/mitigating threats, providing global specialized services, conducting major criminal investigations and engaging foreign adversaries/threats offensively, a significant amount of AFOSI's resources are assigned to fraud investigations.

In the past few years combined, AFOSI has recovered well over a billion dollars defrauded from the USAF worldwide. It is pretty amazing, considering that only an estimated 10 percent of fraudulent activity is reported and/or discovered. Imagine how much money we could recover or save if more people were educated on what to look for. And, Air Force funds obtained through fraudulent means and subsequently recovered by AFOSI, which works closely with other federal law enforcement agencies, are returned to the Air Force.

We've all heard the words Fraud, Waste and Abuse, but would you really know what fraud is if you see it, and if so, how do you report fraud? Let's start off with defining fraud.

Fraud is obtaining money or some other benefit by deliberate deception. Simply put, Fraud is theft! Unfortunately, fraud can come in many forms and may be committed by those most familiar with the system, making it even more difficult to identify. Bribery, identity theft, money laundering, embezzlement, and submitting false documentation are a few examples.

Another common example is utilizing government equipment for personnel use. An example would be taking home and using government heaters for the weekend and returning them to your office on Monday. To help you become more aware of what to look for, the following are conditions that may create an environment susceptible to fraudulent activities:

**General Fraud Indicators**

- Concentration of authority and/or responsibility of one particular person for an entire process. (For example, the GPC card holder is also the approval and billing official)
- Inadequate feedback on results of operations
- Lack of independent verification of the accuracy of records, transactions and reports
- Vague and confusing procedures and standards
- Lack of adequate supervision or oversight
- Inadequate physical safeguards over resources
- Failure to correct deficiencies identified by existing systems

**Contracting & Acquisitions**

- Bids, offers, or other official correspondence originating from the same business address
- Government-furnished equipment requested but not needed on current awarded contract.
- Government-furnished equipment not disposed of in a timely fashion after conclusion of contract.

**Accounting & Finance Office**

- Excessive number of expenses that are not required to be documented with receipts on travel vouchers.
- Excessive TDYs over weekend or holiday periods.
- No periodic review to certify eligibility of members for BAS and BAH.

**Army and Air Force Exchange Services & Commissary**

- Failure to ring up sales.
- Failure to scan items sold.
- Employee provides refund to customer although a sales slip does not pertain to the item returned.
- Vendors provide free items to employees.
- Over ordering or overstocking of merchandise.

Great; you now have an idea of some areas that are at risk to fraudulent activities. Now what? Well, here is the easy part. If you have questions, concerns, need more information or just want to talk, contact AFOSI Detachment 106 today! Here's how:

- 1) Come into the office, Bldg 100, Room C302
- 2) Want to remain anonymous?! Call us at 454-7820 or 455-0621
- 3) Don't feel like talking? Email us at [AFOSI.Det106.office@ogn.af.mil](mailto:AFOSI.Det106.office@ogn.af.mil)

Other reporting avenues are available through the Inspector General's office, the Whistleblower Act ([www.osc.gov](http://www.osc.gov)) and Qui Tam provisions ([www.justice.gov](http://www.justice.gov)).



# Engineering, at work and at home

By **Charles Jenkins**  
AEDC Systems Engineering Support Engineer

For most of us, we chose an engineering career to fulfill our interest and desire to understand how things work and how to make them work better.

We immerse ourselves into the "engineering process" and focus all our energies to this work each day of our lives.

Many professionals today, including engineers, have many tools at their disposal to improve our work, increase our output and improve the quality of our work. Things such as cell phones, Internet, email, e-conferencing and remote data collection equipment allow many tasks to be completed from the comfort of our offices. Although a huge benefit to the company, many of us lose focus on our health and our lack of physical movement starts to rapidly deteriorate our health.

I was no exception. After 20 years in my engineering career, I had gained more than 100 pounds, had severe back and hip pain, had trouble sleeping due to sleep apnea and could no longer lead an active lifestyle. Strangely, the work I did to fund these activities, actually caused me to no longer have the ability to do them.

One day, it came to me that I was an expert at solving problems and maintaining equipment at work, but I was not applying my engineering skills to my body and health. The equipment I was responsible for at work operated at optimal performance and reliability. I had all the engineering tools and problem-solving skills right in front of me and one day I decided to apply them to my own body and health.

First, I determined at what level I wanted my body to perform at, i.e., my body's design conditions. This is different for each person, but for me, I wanted to regain my ability to have an active lifestyle (hiking, sports, home improvements, etc.).

I determined all the "failure modes" that were preventing me from achieving this. The list included my weight, my severe lower back and hip pain, and my sleep problems caused by sleep apnea.

Without diving into the details of the corrective ac-



**Charles Jenkins at the 2011 Music City Marathon in Nashville.** (Photo provided)

tion process, I implemented the following repairs to my body: lower back spinal fusion, two total hip replacements, and lost more than 80 pounds. These corrective actions have brought my performance back in line with my desired operating conditions. I am now pain free and have walked more than 900 miles just this year.

As engineers here at AEDC, we are trained to solve problems.

For instance, as a system engineer you have the responsibility to utilize your engineering and problem solving skills to implement and maintain equipment that is vital to support AEDC's mission.

For example, a large axial compressor requires you to implement rigorous operating work instructions and maintain the equipment through detailed maintenance plans. Critical parts of this compressor are bearings, lube oil system, blade clearances and pitch and the drive motor characteristics.

As an engineer, you spend hundreds of hours thinking about, researching, testing, and implementing changes that provide the optimal functionality of the compressor.

Now compare these efforts to your personal habits and health.

Your body is no different than the compressor and look at the difference when we use and maintain our bodies. I am not sure why we engineers don't apply the same level of care and

maintenance to our health! We do everything in our knowledge and ability to ensure that the compressor is 100 percent ready at all times and can perform at the highest level, but we leave our bodies to chance. Don't we want our bodies to be 100 percent ready at all times and perform at the highest level for God, our family and friends?

So, I challenge all engineers to use engineering knowledge and skills to evaluate, plan, and implement proper operating and maintenance plans for our bodies.

Be sure to operate your body within your design conditions. Most of us are designed for far greater performance than we actually perform at.

Implement rigorous maintenance plans for your body with respect to weight, nutrition, exercise, and annual physicals.

Lastly, we know that equipment failures WILL occur.

Just as we do when these failures occur here at work, when your body fails, study the failure, determine the root cause of the failure, implement corrective actions and adjust operating and maintenance plans accordingly.

You are an expert engineer to operate and maintain AEDC's most vital equipment. Become an expert at operating and maintaining your most important piece of equipment: your body.

## 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. Michael Brewer**  
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://ilpapro.arnold.af.mil/PORTALimages/Smoking area map. pdf](https://ilpapro.arnold.af.mil/PORTALimages/Smoking%20area%20map.pdf). Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

Regarding use of smokeless tobacco, containers of tobacco waste product, including sealed containers, must not be left unattended or disposed of in trash receptacles. Users of smokeless tobacco must flush tobacco waste down the toilet. Smokeless is strictly prohibited in conference room meetings and other areas, e.g. PMEL, where Air Force regulations specifically prohibit.

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

2. Supervisors at every level will ensure this policy is followed. Disciplinary action is appropriate for repeated violations.
3. Updates to this policy will be made in the future to further align with Air Force guidelines.
4. This letter supersedes previous letter dated 28 October 2006, subject as above.

## Roll up your sleeve



Jessica McNeese, nurse practitioner at the ATA/CORE Dispensary, prepares a flu shot for administration to a patient Nov. 3. (Photo by Rick Goodfriend)

## Cooler weather ushers in cold and flu season

By Shawn Jacobs  
Aerospace Testing Alliance

Every year about this time, the number of patients seen at the ATA/CORE Dispensary at AEDC begins to increase. It's the unofficial beginning of cold and flu season.

The Dispensary provides medical care to the contractor employees at AEDC. The base's Medical Aid Station, located in the same building, treats the Arnold AFB military community and area veterans.

"So far this year, people are coming in with just the general upper respiratory symptoms," according to Jessica McNeese, nurse practitioner at the Dispensary. "In October, we started giving our flu shots. Ideally, patients receive the flu immunization by November, so the body can build an antibody response. That way whenever you are exposed to the flu during the peak flu season you have some protection."

The Dispensary has given

about 400 flu shots, but they still have a few left and will continue to give them until they're gone. McNeese recommends that all AEDC employees get a flu shot.

"It's the best that there is to offer as far as flu protection goes," she said. "There are medications that treat the flu, but one may not be as effective or there may be a shortage. You just never know, but a flu shot is an important step in preventing the flu. Often we don't think about how we may spread it to a child or an elderly person by being a carrier because most of our population at AEDC is fairly healthy."

McNeese said this year's flu shot offers protection from the H1N1 virus.

"The H1N1 influenza pandemic was in 2009," she said. "The 2010 and 2011 vaccine both offer protection against H1N1, as well as a strain of flu A and B."

Fewer AEDC employees contracted the flu last year than in some past years, according to McNeese.

"It has varied per year," she said. "Last year wasn't as bad. More people got their immunization where the year that we had the flu shot shortage we did have more cases that were treated."

"We haven't seen any actual flu cases yet because it's still early. According to the latest CDC [Centers for Disease Control] report on flu cases, Tennessee is still reporting no activity."

As far as prevention goes, McNeese said following general good health practices can help protect from the flu, as well as the common cold viruses.

"Stay rested and stay hydrated," she said. "Wash your hands often and practice good infection control measures such as covering your mouth when you cough or sneeze. Dress appropriately for the weather. Eat a well-balanced diet and exercise. Avoid smoking and tobacco products. Smoking predisposes your lungs to respiratory issues."

If you suspect you have the flu, McNeese advises seeing a health

care professional.

"We always recommend that people with fevers, chills, body aches and upper respiratory symptoms such as runny nose, cough or [other] concerns be evaluated," she said. "We're here 7 to 3:30 or go see your primary care provider. Most people are able to overcome the flu on their own, but medications we give can shorten the course and get you back to work and your own lives."

McNeese advises staying home if you're sick to keep from spreading illness to other employees.

"Fever-free for 24 hours is what we like before you come back to work," she said. "There have been times where people have set out for work feeling bad and they get here and their fever's up. They stop in here to be evaluated and we have to send them back home."

In addition, ATA policy requires employees out sick for more than three days to process in through the Dispensary.

## Visitor center hours changed for Thanksgiving holiday

The visitor center will be closed in observance of the Thanksgiving holiday break Nov. 24-25.

Personnel who are working during this time and have an emergency need for a common access card that would result in a work stoppage may contact the Operations Center for emergency assistance.

Personnel requiring base access during this time that have lost or forgotten their base entry badge or CAC may contact the Base Defense Operations Center at ext. 5662 to arrange for an Air Force Form 75 or a temporary badge as applicable.

The visitor center will reopen at 6:30 a.m. Nov. 28.

## PMI chapter plans Christmas dinner at ALC

The Chattanooga chapter of the Project Management Institute is taking advance payment for its Dec. 6 Christmas party at the Arnold Lakeside Center.

There will be dinner and door prizes for the party, which is from 5-7 p.m. at the ALC. The cost is \$20 for PMI members and \$25 for nonmembers. There will also be a cash bar.

Payments are due Nov. 29 for the event, or checks should be postmarked by Nov. 23 and sent to Doug Brown, 1035 Franklin Heights Dr., Winchester, Tenn., 37398.

If at AEDC, cash or check payments for the event can be given to Doug Brown in the A&E Building, 454-5407; Susan Rymer in Building 1103, 454-7683; or Jon Paul Wallace in Building 1103, 454-4904.

## ATA announces 94 award fee rating

By Philip Lorenz III  
Aerospace Testing Alliance

The Air Force announced an award fee rating of 94 for ATA for the period April 1-Sept. 30, 2011.

The award fee determining official (FDO), Randall D. Culpepper, gave the contractor high marks with an excellent overall rating in the areas evaluated. Culpepper is the Deputy Program Executive Officer for Combat and Mission Support, Office of the Assistant Secretary of the Air Force for Acquisition in Washington, D.C.

Addressing AEDC's contractor workforce in "Straight Talk," the company's in-house newsletter, ATA General Manager Steve Pearson said, "We were extremely pleased with the score and it reflects the hard work and dedication of all of you. Times are tough and we do not have all

the folks we need, but through it all you find a way to keep the center humming and meeting the needs of our warfighters – a job done very well."

Pearson said the company will share a portion of the award fee money with its employees.

"After the first eight years of the contract (fiscal year 2004 through fiscal year 2011), ATA has the ability to earn up to four additional years – called Award Term years – and they are awarded one year at a time," he said. "There are two criteria for the award, first, [the] award fee score must average 90 for a specified period and secondly, [it must] meet the requirements of the contract statement of objectives."

"For the first Award Term Year (2012), the period of performance was fiscal year 2009 and fiscal year 2010. We were successful in being awarded fiscal

year 2012 last year. In order to be awarded fiscal year 2013, the performance period was a single fiscal year (fiscal year 2011).

"We were notified later in the day by the AEDC Commander, Col. Michael Brewer and the contracting officer, Mr. John Sutton, that the FDO had awarded ATA the second award term year, fiscal year 2013. The third award term year (fiscal year 2014) will be awarded based upon the same evaluation criteria for our performance in fiscal year 2012."

ATA was awarded the center support and testing contract on June 30, 2003. The operating contract is for up to 12 years and worth potentially \$2.7 billion. ATA currently employs more than 1,800 people from 15 Tennessee counties and four states.

ATA is a joint venture of Jacobs Engineering, Computer Sciences Corp. and General Physics Corp.

## AEMTC from page 1

Under the self-funded insurance plan used by ATA and the AEMTC, the wage employee assumes some responsibility and financial risk for their health care expenses. The employer pays a percentage, but ATA and the employees save money because there is no middle man to pay like in a typical insurance plan, thereby saving the plan money.

The ACT board of trustees is comprised of representatives from ATA and AEMTC, with voting weighted equally between both sides. Nashville-based Southern Benefits is the insurance plan administrator, utilizing the Cigna Health Network to negotiate rates with doctors, hospitals and other health care providers. The Cigna Health network rates have also contributed to the overall positive cash flow for the fund.

The premiums reduction is a direct reflection of how the plan has been managed since 2007, according to Nance. Tough decisions were made then to increase premiums and change the benefit structure in order to keep the fund viable.

Since then, a change in carriers and a change in the plan's design have resulted in the trust getting more value for the premiums paid compared to previous health plan providers, according to ATA Labor Relations Manager

Tom Quatrini. Changing to Cigna has resulted in better pricing.

These changes led to big savings and the recent decision to give employees a holiday on premiums without changing the benefit structure.

"It's a good deal for the employees, and it's a good deal for ATA and the Air Force," Quatrini said.

ATA General Manager Steve Pearson said the trustees' decision to reduce premiums will benefit more than the employees who take part in the insurance program.

"This action will reduce insurance cost for the employee but will have the added benefit of reducing our charges to the government of about \$900,000 in fiscal year 2012, thus freeing up these funds for other center uses," Pearson said. "This action by the ACT Board and the AEMTC is greatly appreciated and helps in our efforts to reduce costs."

"I'd like to thank all the trustees for their hard work in making the right decisions," Nance said. "And a special thanks to Mrs. Annette Painter, the secretary of the ACT. She worked very hard on these issues."

"Our wage folks are very pleased with the announcement of this. We're getting a lot of calls from people who appreciate what has been done."

## ON THE WEB ...



Nashville resident William Akers visited Arnold AFB recently with a friend, but he's been here before. Akers, 86, attended the dedication ceremony in 1951, when President Truman traveled to Tennessee. Hear in his own words how he received the opportunity to visit the base and shake hands with the president in the "Team AEDC Videos" section on [www.arnold.af.mil](http://www.arnold.af.mil).

## Correction

In the Nov. 4 edition of *High Mach*, Deda Cunningham, who helped found the LEGO League at South Middle School in Cowan, was identified as the wife of ATA Human Resources Branch Manager Mike Cunningham. She is actually the wife of ATA Property Administrator Mike Cunningham.

## RACE from page 1



**AEDC Firefighter Anthony Jimcoily and Assistant Fire Chief George DeShields push Victoria Atwell in the Snyder Foundation's Cops and Kids 5K Run/Walk in Smyrna Nov. 5.** (Photo by Kerry Kimmel Photography)

## DATA from page 1

test cell-specific and so replacements and expansions can be pulled from a common pool of components.”

Cameron Liner, Special Missions Section, Communications Branch (TSDIB) Air Force data acquisition and network engineer, said it is important to understand what the DVS and DTS does during a ground test. One way data is acquired during a ground test is initially in the form of voltage.

“This (DVS/DTS) is a system that has been validated to replace our old data acquisition hardware and act as a primary way of acquiring pressure, temperature and other voltage measurements,” he said.

According to Liner, the upgraded system will allow data to be acquired more rapidly, less intrusively and definitely reduce overall cost of ground testing at AEDC.

“We have to look for ways to save costs and one of the best ways is through material purchases, materials, reducing the amount of copper to maintain [and] those kinds of things,” he said. “[The system’s] footprint is smaller. [Also] they benefit in being able to use the same hardware all over the center.”

The DVS/DTS replaces systems that are almost 30 years old and are becoming increasingly difficult to repair and maintain. The older system linked the sensors for acquiring data to the test article through “hundreds of miles” of copper cabling.

Liner said the new DVS/DTS works on the same principal as the older system, but without the outdated hardware and analog processors.

The EDAPS upgrade replaced bulky hardware and extensive copper ca-

bling with modular units that require power and an Ethernet connection to the EDAPS computers. The data source units also provide the potential to be installed in closer proximity to the engine or other test article.

Doug Hamilton, the ATA project manager, and others associated with the effort are already looking to what will follow the upgrade.

“The next part of the investment effort is going to be deployment,” Hamilton said. “What we’re celebrating here [is] the development of hardware and software to put us now on the path to be able to use it.”

Tate said one of the most significant gains will be the savings incurred with the new hardware.

“These new data sources are more cost effective,” she said. “The Digital Volt-

age Scanners are 30 percent less expensive per channel and the Digital Temperature Scanners are 55 percent less expensive per channel compared to the current instrumentation.

Besides the turbine test cells, the newly validated EDAPS could be used to replace the older systems in AEDC’s space chambers, arc heater facilities and Aerodynamic Propulsion Test Unit.

Tate also emphasized the team effort it took to accomplish the EDAPS development, evaluation and validation.

“The success of this project required collaboration between many organizations across the base, including turbines, the communications branch, contracting and ATA’s investments, information technology, test facility and maintenance professionals,” she said.

that will motivate her to progress with the various therapy sessions that she has and just constantly improve day to day.”

Kimmel praised DeShields and Jimcoily for their interest and dedication to Victoria.

“Anthony works on my shift,” he said. “I would love to have a whole shift full of Anthonys. He is the kind of guy who every fire chief wants to have and George is a super assistant chief.”

Kimmel said Victoria, who will be 20 in December, has made remarkable progress and continues to improve.

“She has her mental capacity,” Kimmel said. “Her short-term memory is completely back. Her long-term memory – there’s about two years of her life that she’s missing still – but slowly there are little bits and pieces that are coming back.

“We have every indication that she will walk. She probably won’t walk normally, but we certainly hope that she’ll walk. She’s not paralyzed anywhere; it’s just a brain injury.”

He attributes much of Victoria’s progress to his wife, who quit her job after the accident to devote her time to her daughter.

“We don’t leave her at home,” Kimmel said. “We bought a wheelchair accessible van, and when we go places, she goes with us. We take her everywhere we go, so she gets exposure and she gets to be out.”

Kimmel said Victoria enjoyed the 5K so much, she’s hoping to do more of the events.

“She had a blast,” Kimmel said. “We have a neighbor who is an events coordinator. She has said that she’s going to work on getting Victoria a sponsorship and get her a sports chair to use for these 5Ks.”

## Air Force officials announce enlisted FY12 voluntary force management programs

By Eric M. Grill

AF Personnel, Service and Manpower Public Affairs

**RANDOLPH AFB, Texas (AFNS)** – Air Force officials are offering enlisted Airmen voluntary separation and retirement programs for fiscal 2012 as part of the service’s ongoing force-management initiatives.

Voluntary and involuntary force-management programs were implemented in fiscal 2010 due to a 17-year high retention rate. For fiscal 2012, the service remains over its congressionally mandated end-strength.

“Extraordinarily talented Airmen have answered our nation’s call,” said Col. Kenneth Sersun, the Air Force Military Policy Division chief. “With so many Airmen wanting to serve, we now have more Airmen serving than the authorized 332,800 end-strength funded by Congress.”

Based on end-strength limits, the additional force-management measures are necessary to reduce the number of Airmen serving on active duty, he said.

The enlisted voluntary measures focus on Airmen in non-critical, overage specialties.

These programs include limited Active Duty Service Commitment waivers, including waiving up to two years of enlistment obligations; Palace Chase transfers for enlisted Air-

men with a one-to-one rather than a two-to-one year commitment; and enlisted Airmen may also apply to the Air Force Blue to Green Interservice Transfer to the Army program.

Eligible Airmen can begin applying immediately for any of these voluntary programs.

The challenge is balancing both the number and skills of Airmen within authorized, funded levels, Sersun said.

Airman and Family Readiness Centers will continue to provide support through the Transition Assistance Program and veterans’ benefits seminars. These seminars include information on employment opportunities available in the Air Force Reserve, Air National Guard, Air Force civil service and private sector.

Also included is information on the educational options available with the Post 9/11 GI Bill.

Senior leaders highly encourage Airmen to consider opportunities along the Air Force continuum of service in either the Air Force Reserve or Air National Guard.

For information about this, and other personnel issues, visit the secure Air Force Personnel Services website at <https://gum-crm.csd.disa.mil>.

## F-15E crews awarded Mackay Trophy

By Staff Sgt. Eric Donner  
AF Public Affairs Agency

**ARLINGTON, Va. (AFNS)** – Four Airmen were presented the Mackay Trophy by Air Force Chief of Staff Gen. Norton Schwartz and National Aeronautic Association Chairman Walter Boyne during a ceremony Nov. 7 here.

Retired Lt. Col. Donald Cornwell, Lt. Col. Dylan

Wells, Capt. Leigh Larkin and Capt. Nicholas Tsougas flew a combat mission credited with killing more than 80 Taliban insurgents and saving approximately 30 coalition troops April 6, 2010.

Known as “Dude Flight” due to their call signs of Dude-01 and Dude-02, the four F-15E Strike Eagle crewmembers were tasked to support a combined joint special operations

task force clearing Bala Morgab, Afghanistan, of Taliban fighters. During the clearing mission, the task force was surrounded in an ambush by approximately 100 enemy fighters and became pinned down.

During the operation, Dude Flight performed five show-of-force flyovers that temporarily interrupted the attack. However, the attack soon continued.

A joint terminal attack

controller on the ground then requested a strike on enemy positions to pin down the patrol. In all, Dude Flight deployed six joint direct attack munitions that killed more than 80 insurgents, allowing the task force to continue to clear the town of enemy insurgents.

The Mackay Trophy is awarded by the Air Force and National Aeronautic Association.

## Café 100 grand opening



A grand opening was held Oct. 31 for Café 100, located in the former cafeteria in the A&E Building. Café 100, operated by the Arnold Lakeside Center (ALC), serves a variety of Starbucks beverages plus juice, vitamin water, iced tea and sodas. Food items include pig in a blanket, bagels, coffee cake, croissants, muffins and fruit. Café 100 is open from 6:30 a.m. to 1:30 p.m. Pictured at the ribbon cutting are AEDC Commander Col. Michael Brewer, ALC Complex Manager Lyle Russell, Chief of Services Jan Dent, ALC Food and Beverage Manager Bryan Larson and Col. Robert Bender, chief of the Mission Support Division. (Photo by Rick Goodfriend)

## Airmen screen Tuskegee Airmen documentary at Pentagon

By Tech Sgt. Mareshah Haynes  
*Defense Media Activity*

**WASHINGTON (AFNS)** – More than 150 Airmen came out to screen a documentary about the original Tuskegee Airmen during a red-carpet event here Nov. 10.

“Double Victory” was produced by George Lucas, of “Star Wars” fame, in support of his new feature film about the Tuskegee Airmen, “Red Tails.”

Secretary of the Air Force Michael Donley and Tuskegee Airmen William Broadwater and Lemuel Lewie Jr. attended the

screening. Cuba Gooding Jr., the narrator of “Double Victory” and star of “Red Tails,” was also on hand for the event to promote both films.

Donley and Gooding opened the documentary with remarks about how the contributions of the Tuskegee Airmen have positively affected the nation.

“Our Tuskegee Airmen are national treasures and certainly royalty for our United States Air Force,” Donley said. “I was thinking, as we listened to our

National Anthem, of the last lines – ‘the land of the free and the home of the brave.’ These Tuskegee Airmen helped make it and keep it that way.”

During the hour-long film, audience members listened to personal accounts from Tuskegee Airmen about their experiences fighting two concurrent battles – the battle against discrimination stateside and World War II overseas.

“Today we have to remind ourselves that these brave young men did not start out as legends,” said Donley. “During the 1940s

in America, far too many people either did not believe they could or did not want them to succeed. The Tuskegee Airmen proved that given equal opportunity and training, African Americans could fly, command, and serve in combat and in combat support units as well as anyone.”

After the screening, Broadwater, Lewie and Gooding answered questions during a panel-style question and answer session.

“Red Tails” is scheduled to be released Jan. 20, 2012.

## Tinker test-drives electric vehicle

By Mike W. Ray  
*Tinker Public Affairs*

**TINKER AFB, Okla.** – A battery-powered van that entered production this year can travel up to 80 miles before needing a recharge, can carry up to half a ton of cargo, produces zero emissions and requires no oil or air filters.

The vehicle is powered by a 192-cell, 28 kilowatt-hour lithium ion battery pack that has an estimated life of 10 years and is concealed beneath the floor of the cargo bay. Recharge times are six to eight hours at 240 volts, or about a full day at 110 volts.

The vehicle has a driving range of 50 to 80 miles between charges.

“Studies indicate that most commercial vehicles travel 46 miles per day,” Sales Director Jeff Hyatt said.

An auxiliary 12-volt battery in the engine compartment can be used to play the radio or raise and lower the windows if the electric motor has been switched off.

The cargo area has approximately 135 cubic feet of space and can carry a payload of 1,000 pounds.

The interior of the passenger compartment looks exactly like a conventional van and the dashboard is nearly identical, too.

However, a range gauge substitutes for the tachometer, and the fuel gauge has been replaced with a battery state-of-charge indicator.

Front and side air bags have been installed to protect the driver and passenger.

The vehicle has a heater and air conditioner for

the passenger compartment, and is equipped with an AM/FM radio and CD player, too.

The chassis and suspension system are manufactured by an American car company, and the electric motor and battery are made by companies headquartered in Michigan. Almost two-thirds of the vehicle and its components are manufactured in the United States and Canada, Hyatt said.

A liquid is used to heat and cool the motor and the battery, depending upon the outside temperature.

The motor and battery can operate in extremes ranging from 40 degrees below zero to 130 degrees above, Fahrenheit, Hyatt said. The vehicle can reach a maximum speed of 75 miles per hour, but “speed takes energy,” he noted.

The van has power steering and regenerative braking: the battery recharges when the brakes are applied.

The front-wheel-drive vehicle has a gear box but no transmission; there are no gears to shift.

Driving the van is “nothing like a combustible-engine vehicle,” said David Davenport, the Vehicle Control Lead for the 76th Maintenance Support Group’s Vehicle Control Office. “It’s quiet and smooth” and accelerates quickly.

“It’s also comfortable and has a tight turning radius.”

Assembly operations started in April, and more than 400 of the all-electric vans have been ordered in North America and Europe, Mr. Hyatt said.

B-52 from page 1

## ATA presented with ONF plaque

(System Program Office) current knowledge, the only facility that is capable of performing this level of simulation [in the U.S.] is the AEDC 16T wind tunnel.”

Arrowood explained the mission requirements driving the program.

“By developing a wind tunnel model and CFD model, we’ll be able to accurately model the bomb bay’s aerodynamic environment, as well as external stores’ environment,” he said. “These models allow for a reduction in test assets for most programs down the road.

“For instance, if a new weapon is developed and has a significant change to an outer mould line, compared to currently certified weapons, the B-52 SPO (System Program Office) can reuse the B-52 model and the new weapons model utilizing wind tunnels and wind tunnel data. From that [data, we can] determine aerodynamic loading of the weapon, jettison loading of the weapon and that information will be used in conjunction with CFD.”

Arrowood said the time and money saved through the process is cumulative.

“The CFD then provides accurate release modeling; once that’s done it will reduce the total number of assets that will be required for separation testing,” he said. “That’s the big ticket item – new weapon assets are highly expensive and typically we may need seven [to] eight weapons for releasing to verify modeling data and a real world environment.”

Arrowood said the availability of the B-52 Program and SEEK Eagle Office’s model and subsequent ground testing at AEDC would have far-reaching effects beyond significant cost and schedule savings.

“From a risk standpoint, if we find a problem early in this or a later stage; [for instance] if a weapon has unexpected characteristics when it comes out of the bay or off of the wing, we now know that for flight testing,” Arrowood said. “We can include it in our risk analysis and provide that to the flight test community, informing them of that risk or possibly even putting it into our tech orders that this asset isn’t allowed to be utilized from this location.”

Regarding the B-52H model, he noted, “The time line was quite aggressive. This required extreme accuracy in the model design and fabrication. The professionalism has been outstanding. The parts have been delivered with no modifications being required after quality verification. The surface roughness and interference of the parts has been spot-on.

“As you can see from the model pictures, the scale model is a fantastic representation of the B-52 in-flight.”

Looking toward future store separation testing with the model at AEDC, Arrowood said, “We will be coming back for phase 1.2 in January to do more testing and I imagine that some time in 2012 we will come back for increment 2.”



On Wednesday, Dave Uselton, ATA’s material control manager for logistics and a Marine Corps veteran, presented ATA General Manager Steve Pearson with a plaque from Operation Never Forget’s (ONF) national program manager, thanking ATA for financial contributions to the non-profit organization. Their mission is to build memorial bronze busts of every service member who has been killed in theater in Iraq or Afghanistan since 9/11. Uselton, a cofounder of Operation Never Forget, is the ONF Southeast Regional Program Manager and advisory board member. The most recent contribution from ATA to Operation Never Forget has gone toward assisting with building the bust of Army Sgt. David Alexander Stephens. (Photo by Philip Lorenz III)

## Pararescue training in the desert



Pictured above, Senior Airman Eric Humphrey parachutes during a training mission in the Grand Bara Desert, Djibouti, Oct. 21. Pictured right, Humphrey, left, and Staff Sgt. Andrew Rios, both 82nd Expeditionary Rescue Squadron pararescuemen, arrive on scene to attend to simulated casualties at a mock crash site. After parachuting into the drop zone, Rios' team had to locate casualties, provide care and evacuate them to safety as part of the scenario. (U.S. Air Force photos/Staff Sgt. Renae Saylock)



## Air Force launches cutting-edge culture and language website

**MAXWELLAFB, Ala. (AFNS)** – The Air Force Culture and Language Center, part of Air University's Spaatz Center here, recently launched a new public website to provide information on the Air Force's efforts to increase cross-cultural competence – a critical warfighting skill cited by Secretary of Defense Leon Panetta in an August memorandum to all Defense Department personnel.

"Both military and civilian personnel should have cross-cultural training to successfully work in DOD's richly diverse organization and to better understand the global environment in which we operate," the secretary wrote.

The site, [www.culture.af.mil](http://www.culture.af.mil), highlights all AFCLC departments and programs, including

free courses that provide the Air Force credit for Airmen and other cross-cultural competence media resources. Additional training and educational resources are offered to DOD members through the AFCLC's private site, at <https://wwwmil.maxwell.af.mil/afclc/>, which requires users to have a Common Access Card and be on a .mil or .gov server.

"The site is an incredible resource to help our military and civilian personnel become more cross-culturally competent," said Barbara Barger, the Air Force Senior Language Authority and director of the Air Force Language, Region and Culture Program Office. "Through the training and education offered by the AFCLC, we can ensure our people are

able to negotiate culturally-complex environments and accomplish their mission, any time, any place."

AFCLC's public site is a one-stop shop, which also provides links to external culture, language and negotiation learning sites. Some examples include the Defense Language Institute Foreign Language Center, the Marine Corps' Center for Advanced Operational Culture Learning, the Army's Training and Doctrine Command Culture Center, and the Defense Equal Opportunity Management Institute.

For more information, contact the AFCLC at (334) 653-7729 or via email to [afclc.pa@maxwell.af.mil](mailto:afclc.pa@maxwell.af.mil).

*(Courtesy of the Air Force Language, Region and Culture Program Office.)*

# Air Force refines force presentation, generation

By Mitch Gettle  
AF Public Affairs Agency

**WASHINGTON (AFNS)** – Air Force officials have been working for more than two years to develop a more consistent force presentation model for the Air Expeditionary Force deployment system.

Future changes in how the Air Force presents its forces in the joint environment and generates forces to support combatant commanders will be simplified under the new construct, called AEF Next.

Although these changes will be virtually transparent to the combatant commanders, the Air Force will continue to present an Air and Space Expeditionary Task Force commanded by a Commander Air Force Forces and an Air Operations Center and executed by air expeditionary wings,

groups and squadrons – AEF Next will focus on teaming, at the unit/installation level, and increase combat capability and unit cohesiveness.

The current AEF system, which uses unit type codes and tempo banding, is not easily communicated to external audiences and Airmen alike. AEF Next is designed to simplify the presentation of Air Force forces, similar to sister services, using right-sized, capability-based airpower teams.

Air Force officials are not looking to create new capabilities, but rather take the committed forces the Air Force currently uses and simplify the nomenclature to ease translation for external audiences, said Col. John Long, the Air Force's chief of war planning and policy division. AEF Next will capture

available, committed-in-place and deployed APTs, giving a full account of all Air Force forces.

"For most Airmen, the differences will be minimal," Long said. "Rather than Airmen deploying as individuals or in small groups from many locations across the Air Force, troops would deploy with their unit commanders as part of an 'Airpower Team.'"

The AEF Next concept improves Air Force leaders' visibility over stressed career fields and provides opportunities to mitigate stress, whenever possible, he said.

"We want to get the commander and immediate supervisors back into the deployment decision process," Long said. "This will allow commanders to make key deployment decisions about their unit personnel rather than rely-



ing on functional managers at the major command or headquarters Air Force level to make those decisions ... Commanders decide and FAMS advise.

"Most Airmen's deployments will remain at six-month rotations and we are looking to posture the Air Force at a 1:2 deploy-to-dwell ratio," Long said. "Although we are still refining the generation model, we expect the 1:2 deploy-to-dwell time ratio to be

the target. For example, Airmen who deploy for six-months should not deploy for 12 months after returning home. Some exceptions may apply, depending on an Airman's skill set and demand for that capability."

The Air Force wants to improve predictability, visibility and stability for units and Airmen while maintaining the flexibility to satisfy combatant commander requirements.

"The new system will

adjust deploy-to-dwell ratios to account for varying (operations) tempo, i.e. from peacetime to surge events and back to peacetime ops," Long said.

Air Force Chief of Staff Gen. Norton Schwartz approved AEF Next as the Air Force's new methodology in presenting and generating Air Force forces. The implementation of this construct will take approximately two years to be fully operational.

## AEDC participates in Let Freedom Ring event



**AEDC Commander Col. Michael Brewer and Tennessee Army National Guard Lt. Col. Warner Holt, regimental fire support coordinator for the 278th Armored Cavalry Regiment headquartered in Knoxville and safety manager for ATA, were among the speakers Oct. 15 at the second annual Let Freedom Ring Military Community Appreciation Day at the Monterey Station in Cowan. The AEDC Honor Guard also presented the colors and performed the prisoner of war/missing in action (POW/MIA) table ceremony. Pictured are the Rev. Robert Beal, Master of Ceremonies Dr. Jerry Anderson, Colonel Holt, Colonel Brewer and retired Army Col. L.Z. Johnson. The Let Freedom Ring event is meant to recognize and show appreciation to the entire military community, including active duty personnel as well as National Guard, Reserve forces, retired military and their families. (Photo provided)**

## CSAF, AFCENT commander highlight partnership in 2011 Dubai Airshow

By Senior Airman Tania Reed  
U.S. Air Forces Central Command correspondent

**SOUTHWEST ASIA (AFNS)** – Air Force Chief of Staff Gen. Norton Schwartz and U.S. Air Forces Central Command Commander Lt. Gen. David Goldfein met with key United Arab Emirates leaders aboard the John C. Stennis (CVN-74) Navy carrier Nov. 13 in conjunction with the Dubai Airshow 2011 and the UAE's 40th Anniversary.

"The Dubai Airshow provides an opportunity for the U.S. and nations of the Gulf region to come together in the spirit of friendship," Schwartz said. "It's an avenue to interact with the various representatives from the global community, which doesn't happen as often as we'd like."

The DAS is significant to the UAE's history. It reflects the UAE's development in aerospace for the past 40 years, with the percentage of UAE exhibitors rising from just five percent at the first show in 1989 to 35 percent of exhibitors at this year's show.

This year, more than 150 AFCENT Airmen participated, helping to demonstrate the Air Force's airpower capabilities. Goldfein praised the efforts made by those supporting the event.

"The role of the Airmen at the air show has been vital," Goldfein said. "Their knowledge and expertise has helped in deepening the relationships with our UAE and global partners."

United Arab Emirates retired Maj. Gen. Khaled Abdullah Al Bu Ainnain, the Middle East Military and Defense Projects executive vice president, said he was honored to participate in the event, which showed the strength of the partnership between



**Gen. Norton A. Schwartz, Air Force Chief of Staff, visits Airmen from Kadena Air Base, Japan during the Dubai Airshow Nov. 13. (U.S. Air Force photo by Tech. Sgt. Rey Ramon)**

his country and the U.S.

"It's a very unique opportunity to meet with all our allies and partners," he said. "The show has been a platform for the gulf region and the U.S. to work together synergistically and is an excellent occasion for both countries to showcase what they each have to offer."

Michael Corbin, the ambassador of the United States to the United Arab Emirates, also said the DAS has many benefits to all countries involved.

"This shows the importance of military and civilian aviation cooperation across the region," Corbin said.

As the UAE gets ready to celebrate its 40th anniversary, this event represents the epitome of the strength of the country's relationship with the U.S. as well as the UAE's international role, he added.

"Our military relationship here is part of our global superiority posture in support of the ... region," Corbin said.

## Air Force updates doctrine documents

**WASHINGTON (AFNS)** – The Air Force updated its two capstone doctrine documents.

In October, the Air Force released Air Force Doctrine Document 1, Air Force Basic Doctrine, Organization, and Command. In early November, a revised AFDD 1-1, Leadership and Force Development, was approved and is expected to be available online later in November.

"Much has transpired in the world since the previous edition of AFDD 1 was published in 2003," writes Air Force Chief of Staff Gen. Norton A. Schwartz in the foreword to AFDD 1. "While we cannot accurately predict where and how we'll next be engaged, doctrine provides a leg up, outlining the basics of organization and command, providing guidance on how to think about and plan for different types of operations and missions. These foundational basics allow us to respond more quickly, freeing commanders and planners to think about larger issues, such as strategy, operational art and objectives."

Maj. Gen. Thomas K. Andersen, the commander of the Curtis E. LeMay Center for Doctrine Development and Education, added that AFDD 1 thoroughly discusses the concepts of airpower, airmindedness, and what Airmen provide to the joint force and the nation.

Andersen said the discussion of "airpower" merits special attention.

"Senior leaders discussed whether the overarching construct should be unitary or whether it should explicitly delineate the air, space and cyberspace domains in which the Air Force operates," Andersen said. "We ultimately decided on an inclusive definition of airpower."

That definition defines airpower as "the ability to project military power or influence through the control

and exploitation of air, space and cyberspace to achieve strategic, operational or tactical objectives."

AFDD 1 also adds discussions absent in previous versions, such as cyberspace operations, integration of nuclear support, and an expanded discussion of Guard and Reserve integration, especially in a homeland context.

Additionally, AFDD 1 now includes the organizational discussion previously found in AFDD 2, Operations and Organization. AFDD 2 will be rescinded upon publication of a new AFDD 3-0, Operations and Planning, which greatly expands upon AFDD 2's planning discussion.

Other changes to AFDD 1 include distinguishing between traditional and irregular war and the role culture plays in war; replacing the three core competencies and six distinctive capabilities with 12 new core functions; expanding on centralized control/decentralized execution to provide more clarity to the concept; and including an expanded discussion on force presentation that reflects recent experience in the U.S. Central Command area of responsibility.

Following closely behind AFDD 1, Schwartz approved AFDD 1-1, the second of the Air Force's capstone doctrine documents. In addition to laying out the Air Force's best practices for creating leaders and applying leadership, Andersen highlighted the expanded definition of "Airman" contained in AFDD 1-1: "When addressing a larger audience within the Service, the term Airman now includes all uniformed members of the Air Force (including active, Reserve and Guard), as well as Department of the Air Force civilians."

AFDDs are available from the Air Force Portal homepage (Doctrine tab) as well as the Air Force's electronic publishing, or e-publishing, website.



# Air Force participates in joint homeland defense exercise

By Mary McHale  
AFNORTH Public Affairs

**TYNDALL AFB, Fla. (AFNS)** – A variety of military and federal organizations participated in a first-of-its-kind homeland defense event Nov. 7 as part of the Joint-Deployable Integrated Air and Missile Defense field training exercise conducted in Key West, Fla.

According to Maj. Greg Lewis, the chief of command and control, weapons and tactics, this portion of the Vigilant Shield 12 exercise was the first time live flying in defense of the homeland was integrated into a scenario involving missile defense of North America.

“The J-DIAMD concept is designed to enhance our ability to defend the homeland,” said Brig. Gen. Christopher Coates, deputy commander of the exercise. “The strength of J-DIAMD is that it provides commanders with real-time information to enable decision makers to make informed decisions using the best available sensors and shooter assets to resolve threat situations.”

Exercise participants included representatives from the 601st Air and Space Operations Center, 263rd Army Air and Missile Defense Command, Fleet Forces, Air Combat Command, Air Force Space Command, the Federal Aviation Administration and the Missile Defense Agency.

“There was a tremendous amount of integration from all involved,” Lewis said, who added that planning for the exercise began approximately nine months ago. “That we did this successfully for the first time sets the future for where we are going to go in integrating air and missile defense.”

Navy Capt. Ron Page, the test director for the J-DIAMDS FTX, echoed that sentiment.

“This exercise helps every military branch involved in synchronization efforts,” Page said. “It is how things will be done in the next generation.”

NORTHCOM’s Vigilant Shield 12 exercise launched Nov. 1 and continued through Nov. 10, combining field and command post exercises to train NORTHCOM and North American Aerospace Defense Command staffs in homeland defense and homeland security processes, Lt. Alain Blondin of the Canadian navy, a command spokesman, told American Forces Press Service.

“The scenario for the exercise is based on potential military threats to the United States and Canada that require extensive military planning to provide a range of military options to our national leadership,” said Army Gen. Charles H. Jacoby Jr., Northcom and NORAD commander, in a blog announcing the exercise.

NORTHCOM’s operations center at Peterson AFB, Colo.,

working in coordination with a joint deployable integrated air and missile defense system and elements of a logistics support facility dispatched to Naval Air Station Key West, are testing their capabilities against simulated enemy attacks, Blondin said.

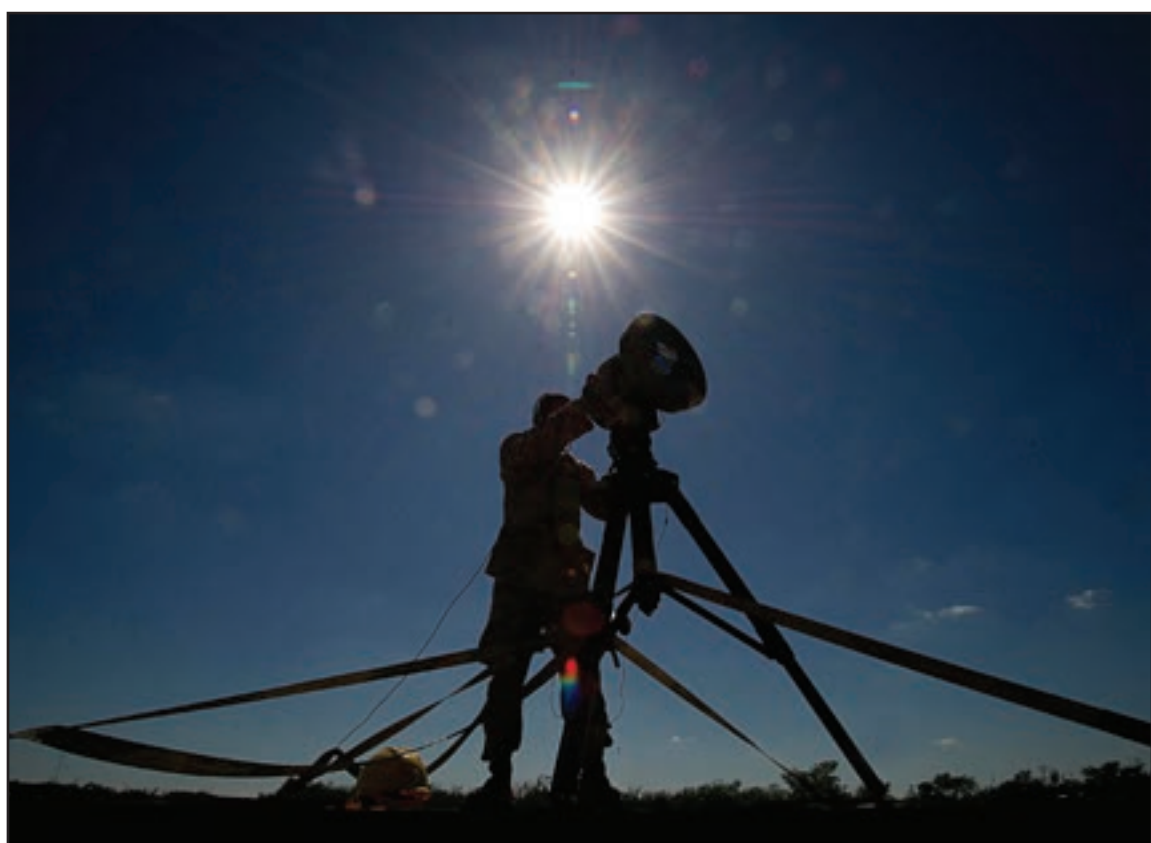
Although most of the scenarios are classified, Blondin said, they involved “the full spectrum of threats,” including simulated terrorist attacks.

To increase the realism of the scenarios and test the ability of federal, state and international partners to provide a synchronized response to homeland threats, Vigilant Shield planners have piggybacked on other training exercises.

For example, routine training flights under way across the Washington, D.C., region tested NORTHCOM’s and NORAD’s ability to coordinate with the Department of Homeland Security and Federal Aviation Administration, among other federal agencies.

This year’s Vigilant Shield was linked to two other concurrent exercises: Vigilant Guard Arizona and Determined Dragon. Vigilant Guard Arizona, a joint regional exercise sponsored by NORTHCOM and the National Guard Bureau, is designed to improve military processes, procedures and coordination with state and local responders, officials said. Canada Command conducted Determined Dragon to test the readiness of Canadian forces at the national level.

(Donna Miles of American Forces Press Service contributed to this article.)



Above, Senior Airman Horacio Maysonet from the 51st Combat Communications Squadron at Robins Air Force Base, Ga., performs set up and testing on radio frequency modules during the Vigilant Shield 12 exercise on Naval Air Station Key West, Fla., Nov. 5. The RFM consolidates radar feeds extending long distances into one air picture allowing higher headquarters to access and engage incoming threats. Below, Staff Sgt. Jam Baro, a crew chief from the 46th Aircraft Maintenance Squadron at Eglin AFB,, and Maj. James Geoppinger review all paperwork before a mission during the Vigilant Shield 12 exercise on Naval Air Station Key West, Fla., Nov. 6. (U.S. Air Force photos/Tech. Sgt. Dennis J. Henry Jr.)



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

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

IF YOU NEED HELP WITH...

TRY THESE AGENCIES & THEIR RESOURCES

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

# 454-3600

The AEDC Information Line is available for ATA employees to get the latest information on a wide variety of emergency circumstances that could impact base operations or driving conditions.



# Air Force leads Pentagon's 2011 Green Team Awards

By Ann Stefanek

Secretary of the Air Force Public Affairs

**WASHINGTON (AFNS)** – The Pentagon's Director of Facilities Bradley Provancha recognized two Air Force organizations as recipients of the Pentagon's 2011 Green Team awards during an "America Recycles Day" ceremony here Nov 15.

The Air Force Secretariat's Installations, Environment and Logistics offices, along with the Air Force Energy Office, were honored during the event. The Air Staff's Office of the Civil Engineer was also recognized for their

participation.

"This is a great example of how the Air Force Pentagon staff walks the talk," said Debra Tune, the principal deputy assistant secretary of the Air Force for installations, environment and logistics who accepted the award on behalf of the Secretariat. "We are so proud to receive these awards because the Air Force is truly committed to looking for ways to reduce waste and save money in day-to-day operations."

The Pentagon Environmental Office's Green

Team awards contest was open to all offices within the Pentagon, representing approximately 23,000 workers in the building. For contest purposes, these offices were evaluated in two groups: those with 20 people or fewer and those with more than 20 people.

Offices were evaluated and accumulated points during unannounced inspections of garbage and recycling bins for proper disposal of trash and recyclables, as well as for recycling coordinator participation in workshops and meetings.

The contest ran from

June through October 2011.

Under Secretary of the Air Force Erin Conaton, who is also the Air Force senior sustainability officer, praised the efforts of the employees within the Installation and Environmental offices and Civil Engineer Directorate who stepped up to the Green Team awards challenge.

"This is a fantastic accomplishment, which really sets an example to follow," Conaton said. "My hat is off to everyone in these organizations for a job very well done."

Green practices are a to-

tal force effort that require participation by every Airman, she added.

"We must make a habit of being green, making the most of all the resources we use and looking for opportunities to conserve today for a secure tomorrow," Conaton said.

In 2010, Pentagon offices recycled approximately 20 percent of their waste; the DOD goal for 2011 is 42 percent.

The Pentagon recycles white paper, mixed paper, newspaper, cardboard, plastic and glass bottles, cans, books, batteries, toner cartridges as well as

construction and demolition debris.

In addition to being good stewards of the environment, Conaton said that minimizing or eliminating pollution and waste provides the potential to realize fiscal efficiencies.

"Being 'green' is good business for the Air Force," she said. "The Air Force fundamentally understands that doing right by the environment – reducing waste, preventing pollution, conserving natural resources – will ultimately reduce operating costs and save valuable taxpayer dollars."

# International military, civilian aviation communities meet in UK to explore aircraft mishap prevention

By Darlene Y. Cowser  
Air Force Safety Center

**KIRTLAND AFB, N.M. (AFNS)** – Members of the military and civilian aviation communities recently had an opportunity to exchange information and explore new possibilities for preventing aircraft mishaps.

The inaugural Military Flight Operational Quality Assurance (MFOQA) course, conducted Sept. 19-23 at Cranfield Uni-

versity, England, was the culmination of a year-long collaboration between the Air Force Safety Center's Aviation Safety Division and the Cranfield School of Engineering.

The MFOQA process is based on one used in commercial aviation that uses operational trend analysis of enhanced flight data to better identify hazards, increase operational efficiency, provide more effective risk management and ultimately reduce aircraft

flight mishaps.

"This is a highly technical process that can produce an enormous amount of information very quickly," said Antonio Cortés, the safety center MFOQA manager, who worked directly with the Cranfield University staff to develop the course.

"The diversity of the course attendees definitely added to the value of this training," Cortés said. "Everyone brought a different set of experiences, based on

cultural, political and economic circumstances that allowed us to talk through the application of MFOQA on different airframes and discuss endless data-gathering possibilities to prevent mishaps."

Capt. Ryan Scoggin, the deputy chief of safety at the 6th Airlift Squadron, Joint Base McGuire-Dix-Lakehurst, N.J., was the lone Air Force attendee among 19 participants from Australia, England, the Netherlands and the U.S.,

and was quick to recognize what he described as an "incredible opportunity."

"The first days focused on an in-depth look at civilian flight data management, led by David Wright, with the U.K. Civil Aviation Authority, who walked us through all aspects of flight data management, from hardware onboard the aircraft to the analysis of the data collected," Scoggin said. "We also heard from major European and North American airlines' safety

specialists who described their FDM programs and provided suggestions on how to implement similar programs in operations large and small."

The last days, devoted to military FOQA specialists, represented "essentially the first international meeting of minds concerning MFOQA," Scoggin said. "It was incredible to be included in this group and part of something so significant."

See MISHAPS, page 13

## My educational journey: From GED to Ph.D. – and a CCAF degree along the way

By Master Sgt. Pitman Kennedy  
711th Human Performance Wing

WRIGHT-PATTERSON AFB, Ohio -- Fleeing Liberia as a child and then immigrating to the United States from Sierra Leone, I have always vigorously pursued my education, starting with my GED, two associate's degrees – including one granted by the Community College of the Air Force (CCAF) – and bachelor's and master's degrees. Once I choose the right institution, I plan to enroll in a Ph.D. program studying education and organizational development.

Whether you take a glimpse at the national or global scheme, things

are advancing so rapidly, that without education one would just get eaten up -- or lost.

I enlisted in the Air Force after obtaining my GED and attending some college classes at the University of Houston. My Air Force career development courses then prompted me to further my education, and I started taking more college classes.

I celebrated the turn of the century by completing both my CCAF in health services management and obtaining another associate's degree in computer networking technology from Metropolitan Com-

munity College while I was stationed at Offutt Air Force Base, Neb.

Getting that CCAF degree was important to me.

It's always a win/win situation for every member that takes advantage of CCAF, whether they intend to build upon it or not. It validates you in your career as not only having the technical and practical piece obtained from the job itself, but the theoretical aspect obtained through the formal education.

CCAF is also one of the minimum requirements needed for most senior NCO special duty positions, and for promotion consideration to the top two enlisted ranks – senior



Master Sgt. Pitman Kennedy

master sergeant and chief master sergeant. That's what a CCAF degree does for you.

I often tout those benefits to Airmen I mentor. I've seen progress from the day I talk to them about it and they give me an "I don't care" attitude or say "Whatever – I'll get to it," and then I see them graduating

or I see them with that piece of paper and I say, "Wow ... I can share that success."

I'm rewarded for what I put into those individuals by seeing them develop both personally and professionally. The more developed Airmen we mold, the better off our Air Force will be.

In fact, I know the ben-

efits of education reach beyond the Air Force. The primary reason I'm seeking my doctorate is because I want to give back to my community as a motivational speaker and coach. I want to ask young people, "Why can't you take advantage of the educational opportunities you have at your disposal?"

# Air Force Modernization takes B-2 to North Pole

By Kate Blais  
95th Air Base Wing Public Affairs

**EDWARDS AFB, Calif.** – Taking off from Edwards Oct. 27, the B-2 Spirit travelled to the top of the world and back again on a mission to test the aircraft’s hardware and software upgrades, endurance and performance at extremely high latitudes.

The 18-plus hour mission to the North Pole and back to Edwards consisted of developmental and operational test points to prove that the B-2’s software upgrade works well and is able to operate anywhere in the world.

Although the B-2 has been to the North Pole in simulated tests, this is the first time the aircraft has physically travelled there, making a milestone in B-2 testing.

“A goal of the test force is to prevent a situation where an aircraft experiences an anomaly with a new system for the first time in an operational mission,” said Lt. Col. Hans Miller, 419th Flight Test Squadron commander. “This flight to the North Pole could reveal data and lessons that were not seen in a lab or simulated environment.”

“This is the first time the B-2 has operated at this extreme of latitude before and [I believe] the longest flight so far for this hardware and this software,” said Maj. Michael Deaver, 31st Test and Evaluation Squadron, B-2 Extremely High Frequency Test director. “Being a global bomber, it may be required to operate at extreme latitudes.”

The mission worked to verify that the software upgrades – which include new communication and new navigation equipment – still allows the B-2 to operate effectively anywhere in the world.

“The main objective of this mission is to look at how the software and hardware works over a long duration [of time],” said 1st Lt. Derek Moore, 419th Flight Test Squadron, test conductor. “We try to push the limits of the aircraft and come back and make sure that operationally, it can still meet objectives.”

The operational portion of this mission consisted of releasing four unguided BDU-38 bombs over the Precision Impact Range Area at Edwards after more than 18 hours of flight. According to Deaver, one of the biggest objectives was to make sure that the aircraft knew where it was, and that it could get to a weapons release point.

To get to that point, extensive coordination throughout the 419th FLTS, Bomber Combined Task Force and other Edwards assets, as well as outside support including the Department of State, was necessary for a successful mission.



**The B-2 stealth bomber on a test mission from Edwards Air Force Base, Calif. The polar flight helped ensure that the B-2 maintains its global combat power capability in all environments with new computers for future growth and sustained contributions to the greater Air Force mission. (U.S. Air Force photo/Bobbi Zapka)**

“Support from the Air Force Flight Test Center allowed us to use the (412th FLTS) as a resource, which served as an airborne control room and communication hub,” said Jeremiah Farinella, 419th FLTS test conductor and operations engineer. “That allowed us to troubleshoot some issues that we saw when we were airborne and provided us communication back to Edwards, which was essential to our success and allowed the pilots to stay focused on the mission.”

Fairchild Air Force Base, Wash. provided a KC-135 tanker aircraft for aerial refueling support. The tanker refueled the B-2 over Alberta, Canada to ensure that the B-2 could complete the endurance portion [of the mission] to the North Pole and then back to Edwards, said Farinella.

The B-2 was further supported with fuel from a second KC-135 from Edwards in the R-2508 Isabella Aerial Refueling Track, which helped ensure that the B-2 could complete the operational portion of the Polar mission.

“We had an incredible team that went with us, lessened our workload greatly and contributed to the fact that we were able to get up there and back safely and really lowered the risk of the mission for us,” said Maj. Andrew Murphy, 419th FLTS, B-2 experimental test pilot.

Flight test helps find problems early on so that they can be fixed before aircraft end up in the field, continued Murphy.

“The warfighter needs to know where they can and can’t go,” said Murphy. “Essentially, we’ve proven the fact that they can get up into those [high] latitudes safely

and effectively. That previously was a question mark.”

“The trained team of aircrew, engineers, technicians, program managers from government and the contractor will take data from the flight to sustain the capability of the B-2 in all regions of the globe,” said Miller.

“Given that we are developmental test, we have an early stake at finding deficiencies,” said Cheryl Caluya, 775th Test Squadron, EHF project engineer. “We’re making sure that the B-2 is still capable of what it could do yesterday.”

At Edwards, ensuring that the B-2 maintains its legacy capabilities contributes to the greater Air Force mission.

“It’s a very good cross-check to ensure that we maintain global vigilance and can strike any target in the world at any time, providing overall global combat power.” Farinella said.

## MISHAPS from page 12

Scoggin, also a C-17 instructor aircraft commander, provided a presentation that focused on how MFOQA data is used in the C-17 and how the data could be used in the future.

“I tried to convey that this data can be tied to virtually every aspect of our operations, which will increase the efficiency of

employing the airframe, training aircrew and developing tactics,” he said. “We collect (more than) 1,100 flight parameters eight times a second on the C-17. There are endless possibilities to what can be accomplished with this information.”

Cortés noted that operators are open to using the technology and exploring

more ways to use the data.

“Thanks to social media, they are generally accustomed to information gathering and sharing,” he said. “There is always a concern that some will be reluctant to embrace the process due to fear that the data could be used for adverse personnel action, but that mindset is changing. We strive very hard to

educate leaders about the aircrew protections that are in place to prevent improper uses of MFOQA.

“Pilots and maintainers understand the value of the process and want to contribute to solutions to reduce risk of mishap, and MFOQA has proved its worth if data analysis prevents one mishap,” Cortés said.

Have a safe and happy holiday season Team AEDC!

## Marine Corps Ball



On Veteran's Day, the local Brigadier General Austin C. Shofner Marine Corps League Detachment 1128 held their annual Marine Corps Birthday Ball at the Arnold Lakeside Center. The evening began with a social hour followed by the traditional cutting of the cake. Retired Marine Col. Ken Crowell was presented the first piece of cake as the oldest Marine present. Lance Corporal Shawn Albro, a recent Tullahoma High School MCJROTC graduate and veteran of Afghanistan, was presented the next piece of cake as the youngest Marine present at the event. Colors were presented by Marines Jeff Ready and Tommy Gipson, and Dr. Ed Lawson (Marine) delivered the invocation. Retired Army Maj. Gen. David Evans, (also a Marine during Vietnam), was the key speaker. (Photo provided)

## Air Force mobile app allows users to build, fly aircraft

**RANDOLPH AFB, Texas (AFNS)** – The Air Force Recruiting Service's first smartphone app, Make-it-Fly, hit the Apple app store recently.

This free app challenges users by allowing them to build and fly their own aircraft.

To complete the series of nine mission objectives, users must choose from different fuselages, wings, engines and weapons to

create the right plane for the job.

"This is the first app intended to inspire an association of science, technology, engineering and math disciplines with the Air Force," said Brig. Gen. Balan Ayyar, the AFRS commander. "Part of our recruiting strategy is viewing the social media realm as a recruiting space and developing applications, such as Make-it-Fly, that will play

an increasingly important role in our efforts to connect with future Airmen."

Current AFRS initiatives, besides the smartphone app,

include enhancing the interactive **AIRFORCE.com** website and equipping recruiters with high tech tools for processing applicants.

The Make-it-Fly mobile app is currently available for download from the Air Force's new mobile site or **AIRFORCE.com**, as well

as the iTunes market. It should be available in the Droid market soon.

(Courtesy of the Air Force Recruiting Service.)

## Arnold Golf Course 454-7076

Check us out on Facebook! Arnold AFB Services Golf Course

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 or carry out, 454-FOOD (3663).

Arnold Golf Course has a new winter special good seven days a week through Feb. 28, 2012. Play all day for \$10 green fee. Regular cart fees apply.

## Arnold Lakeside Center 454-3350

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

Café 100 will begin serving Hap's Pizza Dec. 5 available 10:30 a.m. – 1:30 p.m. Monday through Friday. Pizza is available by the slice in pepperoni, sausage or with the works ("The Galaxy" – pepperoni, sausage, ham, green pepper, onion, mushrooms, black olives, bacon and extra cheese). Whole pizza will also be available if ordered the day prior and will require completing an order form and paying in advance. Selections for whole pizzas may be made from the Hap's Pizza menu.

First Friday Jam is canceled for Dec. but will resume Jan. 6 starting 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.

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. The schedule for December is: **Dec. 1** – "Dolphin Tale," rated PG starring Morgan Freeman, Ashley Judd and Harry Connick, Jr. This is a story about a friendship between a boy and a dolphin whose tail was lost in a crab trap. **Dec. 8** – "Contagion," rated PG-13 starring Matt Damon, Kate Winslet and Jude Law. A thriller centered on the threat posed by a deadly disease and an international team of doctors contracted by the CDC to deal with the outbreak. **Dec. 15** – "Cars 2," rated G starring voices of Owen Wilson, Larry the Cable Guy and Michael Caine. Star race car Lightning McQueen and his pal Mater head overseas to compete in the World Grand Prix race. But the road to the championship becomes rocky as Mater gets caught up in an intriguing adventure of his own: international espionage. **Dec. 22 and 29** – No movie due to Christmas holiday closure.

Wednesday Lunch will no longer be served at the Arnold Lakeside Center after Nov. 30. Hap's Pizza will be available from Café 100 10:30 a.m.-1:30 p.m. Monday through Friday by the slice or order whole pizzas the day prior.

Friday night dining room specials available from 4-9 p.m. **Dec. 2:** Meatball sub with fries, \$5.95 members, \$6.95 nonmembers. No First Friday Jam. **Dec. 9:** Lynchburg ribeye, \$13.95 member, \$14.95 nonmember. **Dec. 16:** Homemade lasagna, \$10.95 member, \$11.95 nonmember. **Dec. 23:** Closed. **Dec. 30:** \$.50 wings members, \$.60 wings nonmembers. All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

Saturday availability and specials: **Dec. 3:** Pizza and Express menu only. **Dec. 10:** Monterey chicken, \$10.95 members, \$11.95 nonmembers. **Dec. 17:** Prime rib for two, \$29.95 members, \$31.95 nonmembers. **Dec. 24:** Closed. **Dec. 31:** New Year's Eve Casino Night \$26 members, \$28 nonmembers. Sign up by Dec. 19. See complete details in Casino Night article. The dining room is open 5-9 p.m. on Saturdays unless otherwise specified. All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

Evening Under the Stars Dinner, Dance and Show coming Jan. 21. This semi-formal event will include dinner

See Briefs, page H3

## Children's Christmas Party returns Dec. 4

The annual Children's Christmas Party will be held 1-5 p.m. Dec. 4 at the Arnold Lakeside Center (ALC) for ages 12 and under. This event is free and open to all AEDC employees (active duty military, civil service, contractors), National Guard, Reserves, retirees and their immediate families (includes grandchildren, nieces and nephews). The annual Tree Lighting Ceremony will be held in conjunction with this event and will begin when Santa arrives to help flip the switch.

Santa is scheduled to arrive at 2 p.m. by antique fire engine along with some of his friends. Santa and Mrs. Claus along with their elves will be in the Winter Wonderland tent to visit with the children immediately following the tree lighting ceremony. Some of Santa's elves will also be in the Winter Wonderland tent to give out goodies to children ages 12 and under. It is important to sign up by Nov. 29 so the elves bring enough.

There will be inflatable jump houses and slides, Shriner's Tin Lizzie show, petting zoo (2-4 p.m.), face painting, letter writing to Santa, 4-H card making crafts and more. A canned food drive also will be held, so please remember to bring a contribution. Drop-off for all canned food donations will be at the front entry of the ALC.

In addition to the various activities, hot dogs, hamburgers, chips, kettle corn and drinks will be available.

Santa and Mrs. Claus will have a number of special guests again this year. You may see Buddy the Elf, Frosty the Snowman or Rudolph, just to name a few.

For event parking, the ALC and Wingo Inn parking lot is being reserved for lodging guests, those with special needs and some of the activities. Parking will be at UTSI with shuttle service to and from the ALC beginning at 12:45 p.m. Security will be assisting to ensure successful traffic flow and limited delays of party attendees.



A special Santa Hotline, 454-SNTA (7682), has been set up for children to leave a message for Santa. This number also may be used by parents to register children for the event. Simply press 1 to leave a message or 2 to sign up. Be sure to specify how many children and how many adults will be attending along with affiliation (active duty, DOD, ATA, guard, reserve or retiree) and a phone number.

## Outdoor Recreation's Deck the Doors contest to replace Christmas Card Lane

It's time to get the Christmas season going. This year Outdoor Recreation is taking a different twist on holiday decorating.

Instead of the giant cards in Christmas Card Lane, there will be a Deck the Doors contest.

Squadrons, offices or groups must call to indicate they are participating by Nov. 28. Remember to give your building number and location of the door.

Doors used for this event must remain functional if they were prior to decoration.

Decorations on the door will be the only part judged. Any additional work

on walls, etc. will not be judged with the door.

Doors must be decorated by close of business Dec. 8. On Dec. 9 Outdoor Recreation staff will take pictures of every door that has entered.

Select judges will be given the pictures to make their selections for first, second and third place.

Prizes will be group function with Services valued at \$300 for 1st place, \$200 for 2nd place and \$100 for 3rd place. These are for a one-time event with no carry over.

The winners will be announced at the DOD Holiday Party Dec. 16.



## Book Fair returns Dec. 6

Books Are Fun is back for a book fair 9:30 a.m.-3 p.m. Dec. 6 in the A&E Building's new training rooms, A125 and A127. Discounted selections include paperbacks, best sellers, educational, reference, cookbooks, children's items, gift selections and more. Save up to 70 percent off retail prices.

## Jewelry Fair set for Dec. 8

Welcome back Pretty Discoveries for a jewelry fair 9 a.m.-3 p.m. Dec. 8 at the BX/Commissary. Their selections would make great Christmas gifts. All jewelry prices are below \$20 and there will be door prize drawings for free jewelry. Pretty Discoveries also carries belts and handbags.



## ALC New Year's Eve Casino Night returns

Arnold Lakeside Center will ring in the New Year with a Casino Night on New Year's Eve, Dec. 31, beginning at 6 p.m. for ages 18 and older.

A dinner buffet will be served from 6-9 p.m. and includes tossed salad, prime rib, Cajun-crusted tilapia, balsamic vegetables, sautéed green beans, baby baker potatoes, wild rice blend, assorted dinner rolls, tea, coffee and assorted cheesecake for dessert.

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.

As midnight nears, watch the New York City ball drop countdown on the big screen. Immediately following there will be a breakfast buffet served until 1 a.m. Reservations are required for the buffets by Dec. 19. Cost is all inclusive for both buffets at \$26 for members and \$28 for nonmembers. Call 454-3350 for reservations or more information.



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  
 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 Child Care – 454-3277  
 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) – 455-GOLF (4653) or 454-7076  
 Mulligan's Coffee Bar and Grill - 454-FOOD (3663)

# December 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>Arnold Golf Course merchandise sale all during December</b>  <b>Deck the Doors sign up deadline Nov. 28, 454-6084</b>				<b>1</b>	<b>2</b>	<b>3</b>
				FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Dolphin Tale" PG dinner 5-8 p.m. movie 6:30 p.m.	FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Meatball Sub with fries, \$5.95 member, \$6.95 non, 4-9 p.m. ALC No First Friday Jam this month	ODR Paintball 9:30 a.m.-3:30 p.m., age 10+, \$35, 454-6084 ALC Pizza and Express menu only, 5-9 p.m.
<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
Children's Christmas Party 1-5 p.m., ALC, parking UTSI, sign up on Sharepoint or 454-SNTA, gifts for ages 12 and under	FC Boot Camp 6 a.m. Café 100 Hap's Pizza now available 10:30 a.m. – 1:30 p.m. Mon.-Fri. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	ALC AEDC Woman's Club luncheon, 9:30 a.m. ALC Book Fair, A&E A125 & A127, 9:30 a.m. – 3 p.m. FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	FC Bench Press Competition 4 p.m. FC Boot Camp 6 a.m. FC Pilates 11 a.m.	ODR Deck the Doors decorations completed FamY Jewelry Fair, 9 a.m. – 3 p.m., BX/Commissary FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Contagion" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	ODR Deck the Doors judging FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Lynchburg Ribeye, \$13.95 member, \$14.95 non, 4-9 p.m.	ODR Paintball 9:30 a.m.-3:30 p.m., age 10+, \$35, 454-6084 ODR Winter Season Bird Watching 2-4 p.m., \$8, 454-6084 ALC Monterey Chicken, \$10.95 member, \$11.95 non, 5-9 p.m.
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>
	FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	FC Cycling Class 11am FC Karate 3 p.m. FC Zumba 4:15 p.m.	FC Boot Camp 6 a.m. FC Pilates 11 a.m.	FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Cars 2" G dinner 5-8 p.m. movie 6:30 p.m.	ODR Deck the Doors winners announced at DoD Holiday Party FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Homemade Lasagna, \$10.95 members, \$11.95 non, 4-9 p.m.	ODR Paintball 9:30 a.m., age 10+, \$35, 454-6084 ALC Prime Rib for Two, \$29.95 member, \$31.95 non, 4-9 p.m.
<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>
	FC Open 5 a.m. – 6 p.m. FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	ALC Closed FC Open 5 a.m. – 6 p.m. FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	ALC Closed FC Open 5 a.m. – 6 p.m. FC Boot Camp 6 a.m. FC Pilates 11 a.m.	ALC Closed FC Open 5 a.m. – 6 p.m. FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	ALC Closed Café 100 Closed GLC Closed FC Open 8 a.m. – 4 p.m., no classes FamY Open 12-4 p.m.	ALC Closed FamY Closed FC Open 8 a.m. – 4 p.m. ODR Paintball 9:30 a.m., age 10+, \$35, 454-6084
<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
ALC Closed GLC Closed Wingo Inn Closed	ALC Closed Café 100 Closed GLC Closed FC Closed Barber Shop Closed Recycling Closed HRO Closed	ALC Closed Barber Shop Closed Café 100 Open 6:30-9 a.m. FC Open 5 a.m. – 6 p.m. FamY Deadline to sign up for MLK, Jr. Trip FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	ALC Closed Barber Shop Closed Café 100 Open 6:30-9 a.m. FC Open 5 a.m. – 6 p.m. FC Boot Camp 6 a.m. FC Pilates 11 a.m.	ALC Closed Barber Shop Closed Café 100 Open 6:30-9 a.m. FC Open 5 a.m. – 6 p.m. FC Open 5 a.m. – 6 p.m. FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	Barber Shop Closed Café 100 Open 6:30-9 a.m. FC Open 5 a.m. – 6 p.m. FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC .50 cent wings members .60 wings non members, 4-9 p.m.	FC Open 8 a.m. – 4 p.m., no classes ODR Paintball 9:30 a.m., age 10+, \$35, 454-6084 ALC New Year's Eve Casino Night \$26 members, \$28 non members, sign up by Dec. 19, 454-3350

## Hours of operation

**Arnold Lakeside Center:** Catering/Management offices by appointment. 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. **Closed Nov. 25-26. Closed Dec. 20-29.**

**Family Member/Youth Programs:** Tuesday through Friday 10 a.m.-5 p.m., Saturday 12-5 p.m. **Open 12-4 p.m. Nov. 23 and 25, Closed Nov. 24. Open 12-4 p.m. Dec. 23, Closed Dec. 24 and Jan. 1.**

**Outdoor Rec:** Main Office, Check In and Auto Shop Tuesday through Saturday 10 a.m.-5 p.m. Marina by appointment only. **Closed Nov. 24.**

**Fitness Center:** Monday-Friday 5 a.m.-9 p.m.; Saturday 8 a.m.-4 p.m. **Closed Nov. 24, Open 8 a.m.-4 p.m. Nov. 25 (no classes). Open 5 a.m.-6 p.m. Dec. 19-22 and Dec. 27-30, Open 8 a.m.-4 p.m. Dec. 23, 24, 31 and Jan. 2, Closed Dec. 26.**

**Arnold Golf Course:** Pro Shop & Driving Range 8 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. **Closed Nov. 24, Dec. 25 and Jan. 1.**

**Recycling:** Monday through Friday 7 a.m.-4 p.m. **Closed Nov. 25, Dec. 26 and Jan. 2.**

**Wingo Inn:** Monday through Friday 7 a.m.-6 p.m., Saturday and Sunday 8 a.m. – 4 p.m. **Closed Dec. 25**

**Barber Shop:** by appointment – Monday through Friday 8 a.m.-4 p.m. **Closed Nov 24-25. Closed Dec. 26 through Jan. 2.**

**GLC:** Monday through Friday 7 a.m.-3:30 p.m. May vary depending on bookings. **Closed Nov. 24, 25, Dec. 23, 26 and Jan. 2.**

**Café 100:** Monday through Friday 6:30 a.m.-1:30 p.m. **Closed Nov 24, 25, Dec. 23, 26 and Jan. 2. Open 6:30-9a.m. Dec. 27-30.**

**Nonappropriated Funds Human Resources:** Monday through Friday 7:30 a.m.-4 p.m. **Closed Nov. 24, 25, Dec. 26 and Jan. 2.**

## BX/Commissary customer eligibility

AEDC government civilian and AEDC contractor employees have access to the following limited items at the base exchange (BX): consumable items including toiletries and over-the-counter pharmaceuticals, food items such as candy, chips, little meal items, hot dogs and soft drinks. Alcohol and cigarettes are not included as consumable items. However, only active duty and retired uniformed services personnel and their dependents are eligible to use the base commissary next to the BX. The commissary hours of operation: Tuesday, Wednesday and Friday 9 a.m.-5:30 p.m., Thursday 9 a.m.-6:30 p.m. and Saturday 8 a.m.-4:30 p.m. The BX hours of operation: Tuesday through Friday 9 a.m.-5:30 p.m., and Saturday 8 a.m.-4:30 p.m. For more information contact Janie Warren, 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 October 2011 totaled \$5,518.01.

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.

Services is an exclusive area available to all AEDC personnel, active duty, retired military, National Guard, Reserve military and others as approved by the commander. Services activities include Wingo Inn (lodging), Arnold Lakeside Center, Outdoor Rec (Marina, FamCamp, Crockett Cove), Family Member/Youth Programs, Golf Course and Fitness Center.

Those mentioned above are eligible to use any Services activity during regular operating hours unless it is specified as a "members only" event. Membership is a personal choice. However, only members are entitled to discounts and other benefits associated with membership.

**Briefs from H1**

service and cocktail social from 5:30-6:30 p.m. with magic show from 6-7 p.m. and dancing to the Jerry Anderson Ensemble from 7-10 p.m. The event is for ages 18 and up and reservations are required by January 17. Cost is \$16.95 for members and \$18.95 for nonmembers. This event is limited to the first 80 to sign up.

**Daytona 500 tickets available at discounted prices** through ITT (Information, Tickets and Travel). The race will be Feb. 26 and various packages are available. Call 454-3303 for details.

Sign up now for three months of free **club membership** and win instant cash (gift card). Everyone who joins any Air Force club between now and Dec 31 will automatically receive three months free dues, be enrolled in the free cash back rewards program and will win \$5-\$100 instantly upon application.

“We want all personnel to consider club membership and understand the benefits of club membership, and our “It Pays to Club” membership campaign gives them the opportunity to try their club free for the first three months,” said Fred McKenney, Chief of the Air Force Food and Beverage Division.

During the period everyone interested in AF Club membership should look for the membership promotional materials in their local club and other Services activities, said McKenney. “Pick up an application, fill it out, and experience the benefits of membership!”

The membership card provides numerous benefits. The Military Free Cash rewards program is an outstanding benefit to members. When you use your club membership card in any on-base Force Support activity, you earn 2 percent cash back on every eligible purchase including AAFES (to include gas) and Commissary. Additionally you earn 1 percent cash back

on eligible purchases everywhere else including all off-base purchases. In addition to being able to redeem points for cash back and gift cards, you now can also redeem for travel, to include airline tickets, hotel, and car rental – super flexibility – and it is all free as a benefit of club membership!

Air Force Clubs offer members numerous free and inexpensive activities including discounts on every meal to include special functions, an annual \$25,000 scholarship program, Football Frenzy, Air Force Hoops and other member’s-only programs. Your Club is a great place for entertainment and meeting new friends in a fun and safe environment. Join now – the first three months are free on us!

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

**Check us out on Facebook! Arnold AFB Services Youth Programs**

Arnold Youth Programs is planning a **day trip to the Martin Luther King, Jr. Center** in Atlanta, Ga., Jan. 14 in recognition of Martin Luther King, Jr. Day. It is a federal holiday the third Monday of January honoring his birthday, Jan. 15. The Center is the official living memorial dedicated to advancing the legacy of Dr. King. We will visit other attractions throughout the day so remember to wear proper footwear and dress accordingly as this is a walking tour of about a square mile. We will begin our visit by following the Civil Rights Walk of Fame past the statue of Mahatma Gandhi to the National Park Service Visitor Center. After exiting the Visitors Center we will tour Dr. King’s crypt, now also the resting place of his widow, Mrs. Coretta Scott King. Then it’s over to the Eternal Flame which

symbolizes the continued efforts of a World of Justice, Peace and Equality, for which King gave his life to achieve. Next will be the Freedom Hall which is one of two exhibits used for events and programs. Directly across the street we’ll visit his birth home and end with a guided tour of the Historic Ebenezer Baptist Church (Heritage Sanctuary) where the late King began his pastoral. This trip is open to ages 9-18 but is limited to the first 12 to sign up. Cost is \$35 and includes morning snack, sack lunch and stopping for dinner on the way back. We will depart from the Youth Center at 8 a.m. and will return approximately 8 p.m. Remember to bring extra money for the gift shop. Sign up deadline is Dec. 27.

**Instructional Classes (Music, Spanish & Fencing) coming in 2012!** If you or your children would be interested in any of the following classes please contact Youth Programs now. If there is enough interest, classes would begin in January or February. Plans are underway to offer a variety of music lessons to include piano, acoustic guitar, electric guitar, electric bass, drums/percussion and even voice. Also available are Spanish lessons teaching basic knowledge, grammar and vocabulary in a classroom style setting. Group lessons for beginner fencing, often called “physical chess” will also be available. Modern fencing allows participants of all ages and attributes to meet on a more equal footing than almost any other sport. With its origins in armed combat, honor and intrigue, this isn’t what you see in the movies, but a contact sport and true martial art. As a martial art, fencing teaches respect for one’s opponents and mental, physical and emotional control. Students begin with the fundamentals of Olympic-style foil fencing: attack, defense and proper “etiquette,”

progressing to concepts of distance, timing and strategy. Emphasis is on developing a usable and solid foundation through body-awareness exercises, group/paired practice, drills, demonstrations and explanations. Music and Spanish lessons are open to all ages and fencing is for ages 9 and older. Call today! The more involved, the better the rates will be for these classes.

**Fitness Center 454-6440**

**Check us out on Facebook! Arnold AFB Services Fitness Center**

**BYOT: Bring Your Own Towel.** As of Nov. 30 the Fitness Center will no longer provide towel service.

**Bench Press Competition** is set for 4 p.m. Dec. 7. Each participant will get three attempts to lift their maximum setting their own weight as they go. A judge will determine a clean lift. There will be separate categories for men and women. Winners will be the man and woman who press the highest percentage of their body-weight. Call to sign up.

The Fitness Center is doing a **Cool 100 Walk/Run Incentive Program** where participants log their miles using the honor system. Participants may use the track located behind the A&E building, the trail behind the Fitness Center, a treadmill in the Fitness Center facilities or at home. These miles are to be turned in during the fall and winter months either daily or weekly. Participants who complete 100 miles before Feb. 1 will receive a T-shirt. Call 454-6440 to sign up and remember to give your shirt size.

**Intramural Volleyball** league is underway with Women’s League on Mondays and Open League on Tuesdays and Thursdays. Games are played at 5:30, 6:30 and 7:30 p.m.

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

**Check us out on Facebook! Arnold AFB Services Outdoor Recreation**

They say that all birds fly south for the winter. Join Outdoor Recreation for **winter season bird watching** Dec. 10 from 2-4 p.m. and you’ll find out that is a myth. Not all birds leave, especially in Tennessee. We will go to certain locations around the area and see what birds stay with us during the cold months. Get an education on what birds they are and the reason they do not leave. Make sure you bring binoculars so you can see as far as possible. We’ll make a list of what we see and keep it with us because during April we’ll go back and see what birds come home for the warm season. This event is for all ages and cost is \$8. Sign up by Dec. 8. There must be at least five to participate and no more than 14.

The **USAF Arts & Crafts Gallery** program is now underway. Enter your craft, photography and digital art images to Outdoor Recreation by Dec. 30. Entries will be submitted to HQ AFMC for approval and uploaded to the Air Force Gallery. There are three age divisions (youth 6-12, youth 13-17 and adult) and each category allows three entries per person. There are specified criteria to follow for submission and an entry application to be completed. Call for complete details. All approved submissions will be available for viewing on airforce-gallery.com in March/April 2012.

**Paintball** is now 9:30 a.m.-3:30 p.m. every Saturday. We have added a few new forts to the course. Anyone age 10 and older may play, but ages 10-17 must have a parent permission form. Interested participants need

to call and sign up at least a day ahead of time to ensure equipment availability. Once the day comes everyone will meet at the paintball field. Cost is \$35 per person with equipment provided and includes 500 paintballs and a tank of air. It is \$20 per person for those with their own equipment and that also comes with 500 paintballs. All paintballs used must be purchased from ODR for \$13 per bag of 500 or \$45 for a box of 2000. So if you’re looking for some fun filled, scenario paintball we will see you on Saturday.

**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 454-3024**

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

**AEDC Woman’s Club 455-5676**

The December meeting will be held Dec. 6 at Arnold Lakeside Center. Social time starts at 9:30 a.m. with the meeting at 10 a.m. Members will be bringing their favorite cakes, breads, candles, etc. to be offered for sale. There will also be a “white elephant” sale of gently used items. All proceeds of this sale will go to the scholarship program. Entertainment will be provided by the Coffee County High School Choir. Guests are welcome

and reservations must be made by Nov. 30 by calling or emailing the following individuals: Liz Jolliffe at 393-2552 or [jajolliffe@aol.com](mailto:jajolliffe@aol.com), Jane Ricci at 962-1378 or [dickanjane@comcast.net](mailto:dickanjane@comcast.net) or Lucie Miller 723-2054 or [ljd-miller@charter.net](mailto:ljd-miller@charter.net).

The November meeting crowned the “Queen of the Secret Shoppers” to Anita Miller. This is very competitive and the winner is selected by a vote of the ladies in the club based on how well the participants spend \$50 in getting the most for their money. Proceeds from the “secret shopper” help fund the club’s college scholarship program. Suzette McCrorey, chairperson of the club’s Scholarship Foundation, said, “The skills learned in participating as a secret shopper will become even more valuable as the holiday season approaches.”

Plans are already underway for the Valentine Dinner Dance Feb. 11 benefiting the club’s Scholarship Foundation. This year’s theme will be “Dance to the Light of the Moon.” The Timeline Band will perform dance favorites. The event will be held at Arnold Lakeside Center. A silent auction will keep everyone busy until the band gets started. The AEDC Woman’s Club Scholarship Foundation awarded eight scholarships to students from Tullahoma, Coffee County, Franklin County and Huntland high schools in 2011. The Club hopes to do the same or better in 2012. The dinner dance is the major fundraiser for the scholarships. For information regarding the dance and reservations, please contact Patti Mathis at 931-580-8898. Surprise your sweetheart with a special night of dining and dancing.

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

**Arnold Golf Course**  
*Winter Special*  
**Play all day**  
**\$10 green fee**  
*good 7 days a week; cart fee extra*

**Pro Shop Sale during December at Arnold Golf Course**

Arnold Golf Course will have a merchandise sale the entire month of December. Do your Christmas shopping with special discounts ranging from 5 to 30 percent off. Pick out your merchandise then come to the counter and roll a die to determine your discount. You must pay for

the merchandise immediately after rolling. Roll a one for 5 percent off, two for 10 percent off, three for 15, four for 20, five for 25 or six for 30 percent off. No double discounts, and Members First Plus discount does not apply in conjunction with this offer.

**Services Holiday Hours**

<b>ALC</b> Nov 25-26 Dec 20-29	Closed Closed	<b>GLC</b> Nov 24-25 Dec 23 & 26 Jan 2	Closed Closed Closed
<b>Barber Shop</b> Nov 24-25 Dec 26-Jan 2	Closed Closed	<b>Golf Course</b> Nov 24 Dec 25 Jan 1	Closed Closed Closed
<b>Café 100</b> Nov 24-25 Dec 23 & 26 Dec 27-30 Jan 2	Closed Closed 6:30-9am Closed	<b>Outdoor Rec</b> Nov 24 Dec 25-26 Jan 1-2	Closed Closed Closed
<b>Fitness Center</b> * no classes Nov 24 Nov 25 Dec 19-22 Dec 23, 24 Dec 26 Dec 27-30 Dec 31 Jan 2	Closed 8am-4pm* 5am-6pm 8am-4pm* Closed 5am-6pm 8am-4pm* 8am-4pm*	<b>Wingo Inn</b> Dec 25	Closed
		<b>Youth Programs</b> Nov 23 & 25 Nov 24 Dec 23 Dec 24-26 Jan 1-3	12-4pm Closed 12-4pm Closed Closed