



# HIGH MACH

Serving the World's Premier Flight Simulation Test Complex



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## Arnold Community Council dinner a huge success

By Kathy Gattis  
ATA Public Affairs

Arnold Community Council's (ACC) annual dinner Friday night was one of the largest on record as almost 300 attendees turned out to hear guest speaker Gen. Janet Wolfenbarger.

Wolfenbarger is the commander of Air Force Materiel Command (AFMC) and the first female 4-star general in the Air Force.

"I came to say thank you to the ACC," she said. "Thank you for your support of the Arnold Engineering Development Complex, its mission and all of the support you provide throughout the year... the welcome baskets for the incoming military, the AEDC Veteran's Picnic, the Honor Flight, gifts for military award winners and the AEDC Children's Christmas Party."

The general briefly spoke about her background and said her dad was the one who mentioned the Air Force Academy to her.

"My dad was in the Air Force," she said. "He is the one who told me the Air Force Academy was accepting female cadets." Wolfenbarger applied and became part of the first graduating class to include women in 1980.

During her career Wolfenbarger worked with programs for bombers, fighters and cargo planes such as the B-2 Stealth Bomber, the F-22 and the C-17 to name a few. She had three different assignments at the Pentagon and finally a promotion to general and a commander position.



Air Force Materiel Command Commander, Gen. Janet Wolfenbarger, speaks to a large crowd during the ACC Annual Dinner on Friday night. The general also toured Arnold Engineering Development Complex earlier in the day. (Photo by Jackie Cowan)

Wolfenbarger said she was thrilled when she learned she'd be the new commander of AFMC.

"I felt, humbled, honored, and ready to serve as the AFMC commander," she said.

"It (AFMC) is the command I grew up in. I was very excited to be selected."

One of the immediate challenges facing her as the new AFMC commander was the transition from 12 centers to

five. As part of the reorganization, AEDC became a complex instead of a center and now reports to Brig. Gen. Arnold Bunch at

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## Award winning sci-fi thriller by retired AEDC Navy commander

By Raquel March  
ATA Public Affairs

Will the world end December 2012 as the Mayans predicted?

No one knows.

But David Stevens, a retired AEDC Navy commander, doesn't see the end the way the Mayans predicted it.

Stevens has written a science fiction thriller book, "Resurrect," which explores the possibility of an apocalypse based on real world threats.

In Stevens' view, real world threats could be anything from a comet or asteroid impact, global nuclear war or artificial intelligence to a pandemic biological war or a solar super storm.

The main character of the book, Navy Commander Josh Logan, tries to prevent his burning fighter from crashing into a neighborhood, but he is too late.

After being critically injured he's offered a new life with a genetically enhanced body and a mission to exploit highly classified military technology to stop a global cataclysm.

Logan will develop the world's most powerful weapon to save humanity.

The price of accepting this mission is he'll be dead to everyone he knows, including his wife.

Stevens was an F-18 pilot who survived hundreds of his own carrier landings.

His idea for the story came through personal experiences.

"As an adrenaline junky who loved science, I studied engineering and became a Navy fighter pilot," Stevens said.

Flying off aircraft carriers, I had some close calls. I knew my profession had a fatality rate of almost one in five, but like most twenty-year-olds, I was immortal."

Then, after several years in the fleet, I learned my roommate and close friend had died in an A-6 crash on a night, low level mission. I was no longer immortal."

Stevens' Navy career later shifted to engineering and flight test. The events

that occurred earlier in his career prompted Stevens to design an Artificial Horizon Altitude Warning system for which he received a government patent.

"It was ranked number one for DARPA (Defense Advanced Research Projects Agency) funding, but without credentials or resources, the funding, understandably, went to more established programs," Stevens said.

The intersection of these life events was a large part of the motivation for "Resurrect."

Stevens added, "I learned no matter how big the threat, unless we experience it directly, it's not real. This applies to pilots ignoring crashes, but I believe, it also applies to societies turning a blind eye to potentially cataclysmic disasters."

While "Resurrect" is fiction, it accurately portrays real threats facing humanity, ones that we can actually do something about."

The book is the first in a trilogy and is optioned for a movie by Producer Fred Miller. Miller is an executive producer of the Academy Award nominated movie "For All Mankind."

"Resurrect" received the Colorado Gold Finalist Best Action Thriller of the Year award by Goodreads website.

The second book is titled "Conceive." Stevens said, "The final book's title is tentatively called "Darken" but is still under consideration."

The first book in the trilogy, "Resurrect," will be available online and in stores Nov. 1.

The book may be purchased in advance of the release at the book's website [www.ResurrectTrilogy.com](http://www.ResurrectTrilogy.com).

"I'm also taking ideas and even some of the names of people from my "Resurrect Trilogy" Facebook page to use in the follow-on books," Stevens said

The "Resurrect Trilogy" Facebook address is [www.facebook.com/ResurrectTrilogy](http://www.facebook.com/ResurrectTrilogy).

Stevens holds engineering degrees from Cornell University and the Univer-



David E. Stevens



A new science fiction thriller book, "Resurrect," written by retired AEDC Navy commander David Stevens, is the first in a trilogy. The book will be available in bookstores Nov. 1.

sity of Michigan, with graduate work in human factors and astrophysics.

During the Iraqi invasion of Kuwait, he served as the Navy Strike Operations Officer for the Persian Gulf.

Stevens spent a portion of his military career at AEDC between 1996 and 2001 and currently resides in Winchester, Tenn.

## 'Give Something That Means Something' at AEDC

By Raquel March  
ATA Public Affairs

Residents and commuters in the local area may never know when they or a family member may need blood assistance for critical injuries or illnesses.

For that reason, Arnold Engineering Development Complex (AEDC) will host the next American Red Cross Bloodmobile on Oct. 22-26, 11 a.m. - 3 p.m.

Organizations like the American Red Cross provide a convenient method for blood donations by utilizing a mobile blood collection lab.

The bloodmobile will move to a different location each day while stationed at AEDC.

The dates and corresponding locations are: Oct. 22 - the Engine Test Facility office building 877; Oct. 23 - the Propulsion Wind Tunnel office building 740; Oct. 24 - the Administration and Engineering building 100; Oct. 25 - the Carroll building 1103; and Oct. 26 - the Main Cafeteria building 452.

The American Red Cross' promotion from Oct. 1 - Dec. 31 is "Give Something that Means Something." During this promotion, donors will be automatically entered to win a \$1,000 gift card.

Approximately 40,000 units of blood are used each day in the United States.

"Blood donation saves countless lives each year," said Leslie Myers, a Comprehensive Occupational Resources (CORE) registered nurse (RN) for Aerospace Testing Alliance (ATA). "In this area alone,

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## HIGH MACH

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An Air Force Materiel Command Test Complex

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### Core Values

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



### Vision

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

### Core Values

- Be accountable for our own actions
- Ensure the safety of individuals and equipment
- Demonstrate the highest integrity and ethical standards
- Communicate clearly and openly
- Deliver professional and technical excellence
- Nurture, enable and treat people fairly
- Align with customer goals and objectives
  - Use disciplined and innovative processes
- Continually improve in all that we do

# The number one way to survive breast cancer

Commentary By Shari Lopatin  
*TriWest Healthcare Alliance*

**MINOT AIR FORCE BASE, N.D.** - One woman is diagnosed with breast cancer every three minutes.

And every 13 minutes, a woman will die from this disease. Yet, more than 2 million survivors of breast cancer are living in the U.S. today.

Do you know what that means?

Even if you've been diagnosed, there is still hope.

The sooner you detect breast cancer, the better your chance of survival. And a mammogram is one of the best ways to detect it early enough for successful treatment.

The Centers for Disease Control and Prevention say having regular mammograms can lower your risk of dying from breast cancer, in general.

Just remember to also follow up with your doctor for a clinical breast exam and continue your monthly self-exams.

TRICARE covers mammograms for women starting at age 40. For those

considered at high risk for breast cancer, TRICARE begins covering mammograms at 35 years old. Best of all, these screening mammograms are at no cost to you.

Breast cancer is the most common type of cancer in American women, other than skin cancer, according to the CDC. So, what are some of the earliest warning signs?

- A new lump in the breast or armpit
- Thickening or swelling of the breast
- Nipple discharge, other than breast milk, including blood
- Change in size or shape of the breast
- Pain in any area of the breast

If you are concerned about any of these symptoms, visit your doctor immediately.

Your doctor can give you some options where you can conveniently get a mammogram. Your closest option might be at a military clinic or a local imaging

### Breast Cancer Fast Facts

- There are about 2.5 million breast cancer survivors alive in the U.S. today
- Except for skin cancers, breast cancer is the most frequently diagnosed cancer among women in the U.S.
- About 80-90 percent of breast cancers in women without symptoms in the U.S. will be detected by mammography.
- The 5-year survival rate for female breast cancer survivors in the U.S. has improved from 63 percent in the early 1960s to 90 percent today.

**Know your risk  
Get screened  
Know what is normal for you  
Make healthy lifestyle choices**

Information compiled from Susan G. Komen Race for the Cure

<http://www.komenpugetsound.org/>

center-sometimes these are called radiology centers. To have your mammogram at no cost, make sure that:

- Your mammography center is TRICARE-authorized.

If you're on TRICARE Prime, your mammography center is in the TRICARE network. If not, you will need a referral from your primary

doctor. For more information on breast cancer prevention, visit [TriWest.com/Prevention](http://TriWest.com/Prevention).

# Keep it safe while working in the yard this fall

Commentary By Frank Hayes  
*AEDC Safety Office*

As autumn comes to Middle Tennessee, many of us will find ourselves doing routine maintenance around our homes associated with the season.

Before we rally forth to clean the gutters, trim the trees, rake the leaves and whatever other chores you have on your "To Do" list, let's take a moment to consider what can be done to accomplish these tasks safely.

Approximately 42 million people seek emergency room treatment for yard work injuries each year

according to the Centers for Disease Control and Prevention.

Here are some simple tips to avoid common autumn injuries while working around the yard.

### Before you start

- Do a brief site survey. Check for suspended dead tree limbs, power line locations that might affect safe ladder use and areas that might bring you in proximity to traffic.
- Always contact utility providers before digging.

- Inspect the ladders, extension cords, hand tools (powered as well as manually operated) and other equipment that you will be using to ensure it is in good operating condition. Don't forget to give your personal protective equipment (PPE) a hard look as well. If you discover any equipment that doesn't operate as the manufacturer intended, have it repaired by a qualified person or replace it.
- Carefully consider ladder placement level, hard surfaces are a must and

keep power line locations in mind any time you move the ladder.

### While you work

- Actually USE the PPE! Pruners are equally willing to slice into your finger or your work glove. No one wants to sustain an injury, especially when equipment that could have prevented it was available but not in use.
- Only do what you know how to do and are physically able to accomplish. If in doubt, get help!
- Take your time. Haste often motivates us to reach from the side of ladders rather than repositioning.
- Don't use a screwdriver as a chisel or pry bar, etc.

Remember to maintain situational awareness. Children and pets can and do place themselves in a hazardous area without warning or forethought.

### After the work is done

- Carefully examine all equipment that was used before returning it to its storage location.
- Clear the work site of any limbs or forgotten tools (like that rusty hammer I rediscovered last spring) to make sure there are no tripping or other potential hazards present.

Enjoy your time outdoors and keep it safe by keeping safety in mind before, during and after each project.

# Air Force Academy energy research will yield benefits

Commentary By Lt. Col. Patrick Suermann  
*AF Academy CEE Department*

**U.S. AIR FORCE ACADEMY, Colo. (AFNS)** - "I am Air Force Energy" is more than just a catchphrase at the Air Force Academy. Those words, provided by Air Force Deputy Assistant Secretary for Energy Dr. Kevin Geiss as the theme for Energy Awareness Month, resonates at the Air Force Academy, whose faculty are innovating across the spectrum of academic departments to further educate and develop future leaders of character and advance energy technology.

After studying energy-related topics in two core courses, Chemistry 110 and Physics 110, cadets can take the science and technology energy systems core option or specialize in approximately 17 major's courses from Economics to Engineering that deal with

the importance of being informed energy consumers and engineers.

Dr. Darrell Pepper, a distinguished visiting professor from the University of Nevada-Las Vegas teaching in the Academy's Engineering Mechanics Department, donated a 3-kilowatt wind turbine for study in the renewable energy course offered here. The turbine provides hands-on experience for cadets, Pepper said.

In time, Pepper said he expects the turbine will be moved outdoors so cadets can study it in a more realistic setting.

"This class, with its practical approach, will prepare our cadets to make energy-wise decisions when they are leaders in the Air Force," said Dr. Mike Maixner, an instructor in the Engineering Mechanics Department. "The Defense Department

will greatly benefit from energy-aware officers."

Similarly, Dr. Karen Henry received a grant to install an energy foundation system and associated monitoring equipment in a lavatory facility recently constructed at the Field Engineering and Readiness Laboratory in Jacks Valley.

The facility uses a geothermal approach to heating and cooling: Energy foundations combine with the structural supports for a building with a heat pump so that the foundations can be used as ground-source heat exchangers.

This provides a cost-efficient approach to conserve energy, reduce carbon emissions and reduce installation costs. Eventually, Henry will compare measured performance indicators, including construction and lifecycle costs, with those expected for conventional heating and cooling systems.

**Power the Force. Fuel the Fight.**

I AM AIR FORCE ENERGY

## Action Line

**Team AEDC**  
I believe in free and open communications with our Team AEDC employees, and that's why we have the Action Line available. People can use the Action Line to clear up rumors, ask questions, suggest ideas on improvements, enter complaints or get other issues off their chests. They can access the Action Line in one of three ways: via the AEDC intranet home page, Action Line boxes at the base cafeterias and by calling 454-6000.

Although the Action Line is always available, the best and fastest way to get things resolved is by using your chain of command or by contacting the organization directly involved. I encourage everyone to go that route first, then if the situation isn't made right, give us a chance.

**Col. Raymond Toth**  
AEDC Commander

## Smoking Policy

1. The following revised AEDC smoking policy is effective immediately. Smoking is permitted solely in designated areas identified by a plastic "smoke genie." This receptacle is for the sole purpose of cigarette butt disposal. If there is no receptacle, you cannot smoke in that area. It is the responsibility of all smokers to clean up the area surrounding the receptacles for any cigarette butts on the ground. Smoking in government-owned vehicles is strictly prohibited. Personnel are allowed to smoke in their personal vehicles at any time. In case of inclement or cold weather, employees are encouraged to use their personal vehicles if a sheltered designated smoking area is not available nearby. Smoking areas will be held to the absolute minimum and will be located in low traffic, low visibility areas away from points of building ingress/egress and air intakes. A map of all authorized smoking areas is available on the AEDC web portal at [https://lapro.arnold.af.mil/PORTAL/images/Smoking\\_area\\_map.pdf](https://lapro.arnold.af.mil/PORTAL/images/Smoking_area_map.pdf). Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

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

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

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

# Arnold's Visitor Center reopens with improved configuration

By Philip Lorenz III  
ATA Public Affairs

Upon the completion of a recent reconfiguration project, Arnold Engineering Development Complex's (AEDC) Visitor Center will re-open for business Monday, Oct 22.

"Our customers seeking base entry will have a more streamlined experience," said Dan Hawkins, AEDC Installation Security Section supervisor. "When

it is their turn, they will go up to the counter and sit down and the entire transaction will take place in one spot.

"There will no longer be a need to go to the back of the center to get a photo taken. The counter will be turned at a 90-degree angle to make better use of the existing space. For our customers requiring military ID cards or CACs [Common Access Cards], nothing will have changed, that

service will be in the same location in the Visitor Center."

Hawkins said the consolidation and new configuration will allow the Visitor Center's staff to facilitate visitors in a much smoother manner and reduce the processing and waiting time for the customer.

"We had the Visitor Center's work stations reconfigured to facilitate customer access and prepare for the arrival of the Defense

Biometric Identification System or DBIDS," he said. "Installation of this system is scheduled for Jan. 31 to Feb. 6, 2013."

Hawkins added, "DBIDS does two different things. It proofs existing DOD credentials such as CACs and identification cards for dependents, retirees, and so forth. Secondly, this system produces a machine readable visitor credentials. So, when somebody pulls up to the gate, our officers will use

a hand-held scanner, similar to what you see in the grocery store, to scan the credential presented.

"The officer will actually see a picture of the person, showing whether or not they are authorized to come on base."

Hawkins said he has appreciated everyone's patience during the transition.

For additional information, call Dan Hawkins at 931-454-5504.

## F-35: Newest fighter much more than 'stealthy plane'

By Marine Corps Cpl. Daniel Wetzel  
Defense Media Activity

**EGLIN AIR FORCE BASE, Fla. (AFNS)** - The engines roared overhead as an F-35A fell into formation. Although this is a basic maneuver for the test pilots, the possibilities for combat environments created by these elite aircraft working together are anything but mundane.

The F-35, which features three variants to be used by the Air Force, Marine Corps and Navy, is a single-seat aircraft capable of stealthy operations, equipped with an enhanced computer technology system. The Marine Corps B variant is also capable of performing short takeoffs and vertical-landings while maintaining the conventional operations of other airplanes.

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

"The F-35 is a fifth-generation fighter; but it's more than just a stealthy airplane," said Marine Corps Col. Art Tomassetti, a pilot who has been with the JSF program since 1998. "It goes beyond stealth and low observable capability. It brings together everything that today's computer and digital age can bring to how the airplane flies and how it's maintained."

The F-35 is an ideal combination of stealth, sensor fusion and a robust digital flight control system making it, not only easy for a pilot to fly, but easy to identify and engage targets in the battlespace. Along with ease of flight, the F-35 also allows pilots greater situational awareness.

"When you look at the F-35, you can't look at it as a single airplane against another single airplane," Tomassetti said. "You

have to look at a group of F-35s working together, then you really get to take advantage of what the F-35 brings to the battle space. The ability of the airplanes to use a variety of sensors to gather information and share the information they gather between planes is truly incredible."

With the F-35, pilots can access information about possible targets and threats from supporting F-35 aircraft via data links, which allows them to see more and identify more of what is happening in the battle space, Tomassetti said.

Currently, the military is only training seasoned pilots on the new airplane at Eglin Air Force Base.

When new pilots are allowed into the program, they will find themselves in a unique training environment along with enlisted aircraft maintainers and mechanics from all three branches of service and also coalition partners from several foreign nations.

These service members will learn how to operate and maintain the F-35 through a digital training environment. This kinetic learning system allows the learning to occur through touching and doing, rather than seeing and hearing.

"The fact that we're starting with the same airframe, same formations, same weapons capabilities, I think that already puts us at a better starting point when we show up to a combat theater together," said Lt. Col. Lee Kloos, squadron commander for the 58th Fighter Squadron, of the integration of forces with the F-35.

Kloos, who has more 2,100 hours flying the F-16, said having the Air Force, Marine Corps and Navy field the same airframe allows a common frame of reference for pilots regardless of service.

The aircraft is also a joy to fly, Kloos said. Despite the advanced technology and complexity of



An F-35A Lightning II joint strike fighter from the 33rd Fighter Wing at Eglin Air Force Base, Fla., flies over the Emerald Coast Sept. 19. (U.S. Air Force photo/Master Sgt. Jeremy T. Lock)

the aircraft, it's a very easy aircraft to fly, and basic pilot actions remain the same as in any fighter aircraft.

"Pull back on the stick and the trees get smaller, push forward and the trees get bigger," Kloos said. It is a stable and well-balanced plane designed for today's generation who grew up playing video games, he said.

Comparatively speaking, the F-35 has a clean cockpit. Instead of a multitude of switches inherent of many aircraft, the F-35 has two touch screens with interfaces similar to a tablet computer.

For the maintainers, things are a little tougher.

"I was working on the F-15 C and D models," said Staff Sgt. Matthew Reed, F-35 A maintainer. "The F-35 is a completely different aircraft. The technology is challenging at times."

Since the F-35 is still in operational testing, the maintainers and pilots work through all the bugs together. On a continuous basis, personnel are testing the aircraft in new maneuvers and capabilities. Once these are monitored and assessed, the pilots are cleared to perform them in their daily flight operations.

"Today our training consists

of the basics of takeoff, landing, navigation and basic formation as we wait for the flight clearance to expand and allow us to train specific mission sets," Tomassetti said.

Air Force maintainers, the first service members to work on the F-35, use the maintenance side of the computer to do preventative diagnostics and pinpoint possible problems.

With the pilots and maintainers working together, the Air Force and Marine Corps have flown hundreds of training sorties since their first flight in 2011. They continue to fly daily to bring the F-35A, the Air Force's conventional landing and take-off variant, F-35B, the Marine Corps' STOVL variant, and F-35 C, the Navy's carrier-based variant, closer to combat operations.

### BLOODMOBILE from page 1



Nicki Morris, an Aerospace Testing Alliance (ATA) engineering technician and blood donor, waits as her donation process completes during the last bloodmobile visit. (Photo by Patrick Ary)

400 units are needed each day to provide enough blood."

Blood donations are used for patients in the local area hospitals throughout the Tennessee Valley Blood Services Region.

"Blood products cannot be manufactured," said Lana Butaud, American Red Cross donor recruitment representative. "The American Red Cross relies on the generosity of volunteer donors throughout the community, yet studies show only three in 100 people give blood.

"Blood drives are absolutely essential to ensure there is enough blood on the shelves to help people in need."

AEDC employees donated 81 units of blood during the last bloodmobile drive in August.

"Because each pint has the potential to help save up to three lives, around 243 patients may have benefited from your outstanding contributions," Butaud said.

The blood collected may be used for leukemia and other cancer patients, trauma patients, premature babies, organ transplants, heart surgeries and joint replacement surgeries.

Butaud said that the goal of the bloodmobile at AEDC is to collect 20 productive units of blood each day.

"The donations made here at Arnold Air Force Base make a difference in the lives of the community around us," Myers said. "Some of the blood donated during these drives may even be needed for you, your family or a co-worker. Every donation makes a difference in the life of someone close by."

To donate blood at other locations see [www.redcross-blood.org/make-donation](http://www.redcross-blood.org/make-donation).

For more AEDC blood donation guidelines and information, contact Myers at 454-5387.

## 'Vortex surfing' could be revolutionary

**SCOTT AIR FORCE BASE, Ill. (AFNS)** - Migrating birds, NASCAR drivers and Tour de France bicyclists already get it. And now the Air Force is thinking about flying gas-guzzling cargo aircraft in formation - 'dragging' off one another - on long-haul flights across the oceans.

Flight tests with C-17s "vortex surfing" at Edwards Air Force Base, Calif., Sept. 6 and Oct. 2, have demonstrated potentially large savings of fuel and money by doing what geese do naturally. Tests show that flying in formation might be smarter than flying alone for Airmen, and not just for birds.

As one effort in the Air Force drive to reduce its overall fuel consumption, vortex surfing may be the wave of the future.

"The concept, formally known as Surfing Aircraft Vortices for Energy, or \$AVE, involves two or more aircraft flying together for a reduced drag effect like what you see with a flock of geese," said Dr. Donald Erbschloe, the Air Mobility Command chief scientist.

A series of test flights involving two aircraft at a time, allowed the trailing aircraft to "surf" the vortex of the lead aircraft, positioning it



The view from a C-17 cockpit while trailing behind another C-17 during the first tests of "vortex surfing" at Edwards Air Force Base, Calif., Oct. 2, 2012. Early indications from the tests promise a reduction of fuel consumption by up to ten percent. (Courtesy photo)

self in the updraft to get additional lift without burning extra fuel.

Early indications from the tests promise a reduction of fuel consumption by up to 10 percent for the duration of a flight. Over long distances and with even a small fraction of Air Mobility Command's average of more than 80,000 flights a year, the fuel and cost savings could reach into the millions of dollars, experts say.

Next up: The Air Force Re-

search Laboratory will analyze the data from for possible applications to other aircraft on a variety of missions.

The tests were the culmination of an ongoing, combined effort between AMC, the AFRL, the 412th Test Wing, the Air Force Life Cycle Management Center, the Defense Advanced Research Projects Agency, the Boeing Company and NASA Dryden Flight Research Center.

## Flu shots available at AEDC Airman keeps mission on target

By Raquel March  
ATA Public Affairs

Flu shots are available in the Arnold Engineering Development Complex (AEDC) dispensary for all AEDC personnel, active duty military, retirees and their family members.

Flu shots through the medical aid station are free for active duty military, retirees, DOD civilians and their family members only. The shots

are currently available on a walk-in basis from 9-11 a.m. at the Medical Aid Station.

For children of active duty, retirees and DOD civilians, age 17 and under, call (931) 454-5351 to schedule an appointment.

Base contractor personnel, including the Aerospace Testing Alliance (ATA) and its subcontractors, may schedule appointments through the

contractor dispensary to receive shots at a cost of \$15 beginning Oct. 22-26 and Oct. 29-Nov. 2.

ATA and subcontractor personnel should call 454-5385 to schedule an appointment. Messages for appointments left on the answering service will not be scheduled.

Payment for flu shots should be made with exact cash or a check made out to ATA.

## Air Force Strong



A tactical air control party trainee lifts a 100-pound ruck sack during a field training exercise on Eglin Air Force Base range, Fla., Sept. 28. The trainees learn multiple survival skills during a one-week field training exercise as part of the TACP technical training school. (Courtesy photo)

**JOINT BASE LANGLEY-EUSTIS, Va. (AFNS)** - (This feature is part of the "Through Airmen's Eyes" series on AF.mil. These stories focus on a single Airman, highlighting their Air Force story.)

It was a bright, sunny day recently as Senior Airman Kimara Duncan wheeled her toolbox out to the flightline here. The air was warm and filled with the roar of passing jets overhead as she prepared to start her shift.

As Duncan, a 94th Fighter Squadron F-22 Raptor crew chief, started her 10- to 12-hour work day, she readied her tools and moved with purpose only achieved through many long hours of work. The whole time she worked, she wore the bright smile always visible on her face.

"I try to stay positive," Duncan said. "If you're negative, you can affect the mission. I try to keep in mind that I wouldn't have the same opportunities if I was anywhere else."

Most Air Force members can attest that the first question people ask them about their military career is what plane they fly, though pilots account for only 4 percent of the

total force. Duncan works behind the scenes to ensure the pilots continue to complete their missions.

As a young Airman just starting technical training, Duncan said, she was pleased to learn she would be trained to work on the most technologically advanced fighter jet in the world.

"I was excited when I learned I would be working on the F-22," she recalled. "I would never have the opportunity to do this job in the outside world."

Crew chiefs make sure their jet is in perfect working order. They perform preventative maintenance and pre- and post-flight inspections, and they maintain and repair the aircraft, inside and out, with general mechanical work.

Duncan is the dedicated crew chief for the 1st Fighter Wing flagship. Crew chiefs consider this to be a great honor, and it's an even greater accomplishment for a junior enlisted Airman.

"I have to set an example for my fellow Airmen," she said. "Everyone looks to me to meet, and exceed, the standards."

Duncan said she wanted to run when she was injured, though pilots account for only 4 percent of the

crew chief, because the prospect of being put in a leadership position was daunting.

"I didn't want to be put out there," she said with a laugh. "When I first got here, I just wanted to do what I was told and focus on my job."

Though anxious at first, Duncan said, she has taken great pride in meticulously caring for her jet in the same way a "gear head" would a prized car.

"As a crew chief, you want your jet to look good," she said. "You want to keep it clean - not clean it because your supervisor told you to."

Dedicated crew chiefs have their names on their jet, right beneath the pilot's name. Although Duncan is past her one-year mark as dedicated crew chief for the wing's flagship, she said, she's still getting used to her name on the side of her jet.

"I don't think my name looks right on the plane," she added with a smile. "It's such a surreal feeling every time I see it."

She recalled when she had to remove the previous crew chief's name from the plane to put on her own.

"I felt bad - almost like I was betraying him," she said. "I still can't believe it's my name on the plane."



Senior Airmen Kimara Duncan, left, and Jonathan Millan refer to their computer during routine maintenance on an F-22 Raptor at Joint Base Langley-Eustis, Va., Sept. 25. Crew chiefs perform preventative maintenance, pre- and post-flight inspections, and maintain and repair the aircraft inside and out. Duncan and Millan are 94th Aircraft Maintenance Unit tactile aircraft maintainers. (U.S. Air Force photo/Senior Airman Racheal Watson)

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## Wounded warrior gets help with canine wingman

**JOINTBASESANANTONIO-RANDOLPH, Texas (AFNS)** - An Air Force wounded warrior has a new wingman helping him cope with his physical and mental pain, thanks to the "Train A Dog - Save A Warrior" (TADSAW) program.

Staff Sgt. Andrew Goligowski struggles with post-traumatic stress and the pain caused by sarcoidosis, a disease with no cure that causes inflammation in the lymph nodes, organs, joints, and other tissues. For Goligowski, the disease strikes his joints, at times making it painful to even bend his arms, and causes masses in his lungs making it difficult to breathe.

Goligowski was serving as a military training instructor with the 321st Training Squadron at Joint Base San Antonio-Lackland, Texas, when his symptoms began. Once a military working dog handler with four combat deployments under his belt, Goligowski was not only in pain, but he became withdrawn and depressed, and needed help.

"I didn't want to do anything," said Goligowski. "I was grumpy and moody. All I could think about was that I was never going to be able to do my job in the Air Force again; then I'd think about not having a job at all, and having no health insurance."

The negative thoughts wouldn't go away. Then he met Mali, a 3-year-old Belgian Malinois, through the TADSAW program.

"She's a reason for me to get out of bed in the morning," said Goligowski. "The walls don't get small when

I'm with her. And because she's a working dog, there's a special bond. She's my battle buddy."

Goligowski's improvement has become evident to others as well.

"I had not known Andrew very long before he was teamed up with Mali, but I did notice that he was more cheerful and had a more positive outlook on his current situation," said Charles O'Connor, Goligowski's nonmedical care manager at the Air Force Personnel Center Warrior and Family Operations Center here.

Mali's life has also been a struggle. After becoming certified as a service dog, the TADSAW program placed her with a former Air Force working dog handler who was a Vietnam veteran living in California. Sadly, the veteran died of a heart attack six months after getting Mali. His family couldn't keep Mali so she was returned to the program. She spent the next several months in a kennel not working.

During that time, the program director, Bart Sherwood, spoke with Goligowski about helping train the rescue dogs Sherwood fosters on his 80-acre ranch near San Antonio. That's where Goligowski met Mali, and their bond was born.

Although she had already been certified as a service dog based on Americans with Disabilities Act requirements, Mali needed to be recertified after being "unemployed" for so long.

Working with Goligowski, Mali passed her recertification with flying colors.

"There is a rapport be-

tween us," said Goligowski, who has been with Mali for four months. "We're a pack, and I'm the pack leader. I just feel better around her. She lowers my blood pressure and gets me outside walking."

There are other members of the pack at home. Married five years, Goligowski and his wife, Whitney, have a 3-year-old son, Hayden. "My wife is the pack leader of me," admits Goligowski.

How does his wife feel about the new female in her husband's life?

"I noticed his attitude change right away," said Whitney. "He was like a kid in a candy store or a kid on Christmas Day. Something had lifted. Mali knows - she senses - when Andrew's feeling down and is there to help."

Mali accompanies Goligowski everywhere, even to work at Lackland where Goligowski is the charge of quarters for the 321st TRS while he awaits the results of the Medical Evaluation Board.

"If you already have a pet and it can pass the test, it can be certified as your battle buddy," said Goligowski.

When not on the job, Mali enjoys being a family pet, playing with toys and playing catch.

"I love her," Whitney added. "She has such a personality."

Goligowski needed help, and Mali needed a job. In the end, they both got what they needed.

For more information about the Air Force Wounded Warrior Program or other personnel issues, go to the myPers site at <https://mypers.af.mil>.

## F-15 test force celebrates 10 years



On Oct. 12, the F-15 Operational Flight Program Combined Test Force celebrated its 10-year anniversary. Steve Coleman, F-15E crew chief, completes last minute checks underneath the plane prior to it taxiing out from Eglin Air Force Base's flightline. The Strike Eagle flew the first ever sortie with the new APG-82 radar. The new radar replaces the 24-year-old APG-70 radar system. (U.S. AF photo)



# DON'T FORGET TO FEED THE BIN!



## AEDC CFC campaign now active

By Raquel March  
ATA Public Affairs

The Arnold Engineering Development Complex (AEDC) Combined Federal Campaign (CFC) began Oct. 9 and will end Nov. 9.

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

Employees are able to make a monetary contribu-

tion to a charity of their choice, either through a monthly payroll deduction that occurs January through December or a one-time gift.

The CFC encourages donors to utilize the [www.cfenexus.org/tregional-cfc/](http://www.cfenexus.org/tregional-cfc/) web site to search for charities and make pledges.

AEDC's collective goal is to contribute \$57,000.

A charity fair will be held in the Administration and Engineering (A&E) lobby, Oct. 26 from 11 a.m. - 1 p.m.

At this event, AEDC federal employees will have an opportunity to see the local

charities that are available through the CFC and ask questions.

The charities supported through the CFC focus on people who need help including the hungry, the homeless, the sick, the disabled, children and families in need, and the environment.

Federal employees review all the charities on an annual basis. Only those that meet high standards can participate in the CFC.

AEDC contractor personnel are not eligible to contribute to the CFC.



Insert CFC Name Here—Times New Roman Italic, 12.5 pt

50 YEARS OF CARING



## Crew chiefs shine under dangerous conditions

**MINOT AIR FORCE BASE, N.D. (AFNS)** - Two Airmen from the 5th Aircraft Maintenance Squadron were recently coined by wing leadership for their work in helping to prevent the spread of a potentially disastrous fire involving a B-52H Stratofortress.

The situation all began during a routine B-52 landing procedure when crew chiefs Senior Airman Broc Wilson and Airman 1st Class Christopher Tolch were marshalling pilots to the proper parking location. Upon placing the chocks

(used to prevent wheels from rolling) on the aircraft, the pilots released the brakes which suddenly caused smoke to erupt at the front end of the aircraft.

"All I saw was the smoke at first," Wilson said of the hydraulic systems. He quickly communicated to Tolch the need to signal an emergency egress gesture to pilots and crew members.

As the pilots hastily evacuated the bomber, Wilson noticed flames beginning to form. It was at that moment that he knew what he had to do.

Acting quickly he rushed over to retrieve the Halon fire extinguisher located at the end of the aircraft.

"I had never seen anyone use the Halon before, so I was nervous," said Wilson. Yet despite his worries, he remembered his training and successfully put out the fire, leaving no flames behind.

He notified his supervision and shortly after, fire response personnel arrived on-scene. They assessed the situation and ensured everything was under control and also checked for

the well-being of those involved.

Following an investigation of the situation, it was determined the fire was caused by flammable hydraulic fluid leaking onto a hot brake surface.

"Their training and professionalism enabled them to respond in a manner that was paramount in the safe evacuation of the aircrew," said Lt. Col. Scott H. Maytan, 5th Bomb Wing Chief of Safety.

"In the end, it's not science fiction, it's what we do every day," said Tolch.



**Senior Airman Broc Wilson and Airman 1st Class Christopher Tolch, 5th Aircraft Maintenance assistant dedicated crew chiefs, helped to prevent the spread of a potentially disastrous fire involving a B-52H Stratofortress earlier this month, when flammable hydraulic fluid leaked onto a hot brake surface. (U.S. Air Force photo/Senior Airman Jose L. Hernandez)**

**DINNER** from page 1

Air Force Test Center instead of reporting directly to AFMC.

“Secretary Gates provided the mandate to make the changes and there is a good business case for this – reduced resources are the primary reason,” said Wolfenbarger. “In the end, it is all about providing the best support to the warfighter and having a single center, single mission and single commander helps us do that.”

The general said the new organization allows the standardizing of processes, sharing best practices and the opportunity to do what is best for the Air Force.

“I thank the members of the ACC for embracing this change, and I applaud your efforts and your outstanding citizenship,” Wolfenbarger said.

In closing, Wolfenbarger

said, “I see a bright future for the complex (AEDC), AFTC and AFMC.”

Outgoing ACC President Temple Bowling said he and the ACC believe the changes (5-Center construct) will help AEDC.

“The ACC wholeheartedly supported the standup of the new Air Force Test Center (AFTC) by AFMC headquartered at Edwards AFB,” Bowling said. “We are working diligently to support strong relationships with our community counterparts at both Edwards and Eglin so that we may develop strategies that will benefit and protect the Test Center and its assets.”

For his part, ACC Incoming President Steve Cope encouraged every member of ACC to help the group support the base by participating in the annual trip to Washington, D.C., held each spring.

“Our goal is to support AEDC by visiting Congress and the Pentagon and present proposed ideas that make it easier to do business at AEDC,” Cope said. “We are beginning to get traction, but we need your help as we continue to make strides. You can make a difference!”

The ACC also sponsors a Legislative Orientation each spring for state elected officials to raise awareness of AEDC and the importance of its mission.

Every person who attended the ACC event receives a complimentary one-year membership, invitations to monthly meetings and a copy of the base newspaper.

To see pictures from Friday’s event or to find out more about ACC membership, check out [www.arnoldcommunitycouncil.com](http://www.arnoldcommunitycouncil.com).



Temple Bowling, outgoing ACC president, (right) passes the gavel to Steve Cope, the new ACC president. (Photo by Jackie Cowan)



ACC's New Officers: (left to right) Vice President Ben Craig, President Steve Cope, Secretary Claude Morse and Treasurer Lana Woodard. (Photo by Jackie Cowan)



Col. (retired) Craig Wolfenbarger, Mrs. Angel Allen, Gen. Janet Wolfenbarger and Master Sgt. George Allen, one of AEDC's annual award winners, pose for a quick photo during the social. (Photo by Jackie Cowan)



Before the social at the ACC event, Gen. Janet Wolfenbarger (center) talks with two U.S. Marine Corps Junior ROTC cadets, Jennifer Jones (left) and Cadet Sergeant Major Kellye Burns (right). (Photo by Jackie Cowan)



Burns and Johnson post the colors for the ACC Annual Dinner. (Photo by Jackie Cowan)

# AEDC hosts annual VA picnic

By Philip Lorenz III  
ATA Public Affairs

Military veterans who reside at the Tenn. State Veterans Home and VA Tennessee Valley Healthcare System in Murfreesboro arrived Oct. 4 to attend Arnold Engineering Development Complex's (AEDC) annual VA picnic.

Members of Arnold's workforce were out in force to greet them.

Besides a meal they could enjoy outside, highlights for veterans attending the event included a horse and buggy ride and a karaoke performance featuring members of the AEDC Fire Department

and other Arnold employees.

A number of organizations from the base and the community contributed donations and personal support for the VA picnic. AEDC's Air Force Sergeants Association provided financial backing to pay for the use of the Arnold Lakeside Center.

Other professional organizations on base, including the Arnold Top IV, the Junior Force Council and the Company Grade Officers Council contributed to the annual event.

Staff Sgt. Randall Lusk,

AEDC VA picnic coordinator, said he also attributed the success of the annual event to the continuous support from the Arnold Community Council, area chambers of commerce, businesses and individuals who provided donations.

But according to Lusk, what the veterans seemed to enjoy most was spending time sharing their experiences with Arnold's active duty personnel, DOD employees and members of the AEDC support contractor, Aerospace Testing Alliance, some of whom have either served in the military or are active reservists.



Left, AEDC Maintenance Division Deputy Col. Rick Petito greets veteran and Tenn. State Veterans Home resident Billy Campbell, one of the veterans who attended this year's VA Picnic before Arnold's Fire Department volunteers served the meal at the base's Lakeside Center. (Photo by Rick Goodfriend)

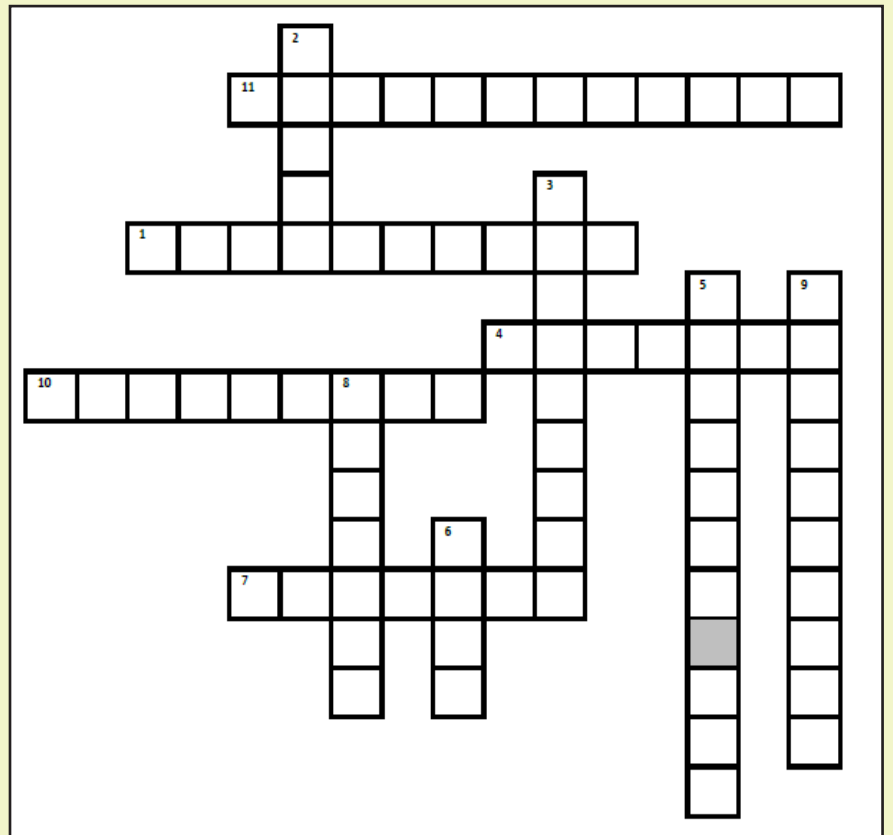


On Oct. 4, Arnold Community Council members and representatives of Arnold Engineering Development Complex's (AEDC) workforce, including active duty, DOD personnel and Aerospace Testing Alliance employees, welcome Kenneth Adamson, who served in the Army and was in the Vietnam War, to AEDC's annual VA picnic. Adamson, a resident of the VA Tennessee Valley Healthcare System, is being assisted by Lisa Hull, an employee at the Tenn. State Veterans Home. (Photo by Rick Goodfriend)



From left, Arnold AFB Fire Department firefighter crew chief Dennis Eggert; retired driver operator and Vietnam veteran Darnell Ortner; firefighter George DeShields; and crew chief Joe Brassfield sang for the veterans attending Arnold's annual VA picnic Oct. 4. (Photo by Rick Goodfriend)

## "Energy" Sources of the World Word Search



**ACROSS**

- 1. Energy from flowing water
- 4. Portable fossil fuel used in grills
- 7. Efficient in transforming energy into electricity
- 10. Comes from resources that can be easily replenished
- 11. Cannot be recreated over a short time; takes millions of years to form

**DOWN**

- 2. Energy in rays from the sun
- 3. Fossil fuel for cars, trucks and jets
- 5. Fossil fuel gas moved by pipeline
- 6. Energy from moving air
- 8. Energy from wood, waste and garbage
- 9. Energy from heat inside the earth

**Q: How did Benjamin Franklin feel when he discovered electricity?**

A: He was "shocked"!



## Predators, Reapers break flying record

By A1C Michael Shoemaker  
49th Wing Public Affairs

**HOLLOMAN AIR FORCE BASE, N.M. (AFNS)** - The 29th Attack Squadron, 9th Attack Squadron, and the 6th Reconnaissance Squadron set a non-combat record Oct. 2, by flying six MQ-9 Reapers and four MQ-1 Predators simultaneously during a training mission at Holloman Air Force Base, N.M.

The 29th ATKS, 9th ATKS and the 6th RS recently increased their training capacity to 10 lines. A line consists of the aircraft, a ground control station and all maintenance and flight personnel required to keep an aircraft airborne. This capacity ensures they are capable of meeting U.S. Air Force remotely piloted aircraft aircrew training requirements. These three squadrons train all U.S. Air Force MQ-1 and MQ-9 aircrew members.

Col. Kenneth Johnson, 49th Operations Group commander, said, "In the last year alone, the work the operations and maintenance RPA teams accomplish every day has grown by two-thirds, from six to 10 lines."

This is in accordance with Gen. (ret.) Norton Schwartz, former U.S. Air Force Chief of Staff, who said that ultimately, he believes it is conceivable that

the majority of aviators in the Air Force will be flying remotely piloted aircraft.

Capt. Andrew [last name withheld due to operational security concerns], an MQ-9 pilot at the 9th ATKS who participated in breaking the record said, "I'm just one person out of the dozens it takes to make this record possible. I share in the pride of my fellow squadron mates and maintenance folks who have done a lot of work to get us here. It's also a testament and validation to the direction of the Air Force. The role of RPAs is only going to increase."

The record-setting training flights were manned by 10 crews composed of instructors and students, both pilots and sensor operators. The typical flight time for an RPA is around eight hours, and multiple training missions are flown during that time.

Johnson said, "We finally have the physical capacity to accomplish our mission to increase programmed flight training and develop the best possible RPA crew members."

Holloman AFB serves as the gateway to the RPA career field as the Air Force's premier training base for RPA pilots and sensor operators.



Major Dusty, 9th Attack Squadron MQ-9 Reaper pilot, and Tech. Sgt. Trevis, 49th Operations Group MQ-9 sensor operator (last names omitted due to operational security concerns) fly an MQ-9 Reaper training mission from a ground control station on Holloman Air Force Base, N.M., Oct. 3. The Reaper is a multi-functional aircraft that supports both reconnaissance and combat roles. Holloman trains all Air Force MQ-1 Predator and MQ-9 Reaper pilots. (U.S. Air Force photo by Airman 1st Class Michael Shoemaker/Released)

## Daughters of ATA employees presented with the Dr. Joseph J. Jacobs Scholarship



Myra and Gregg Beitel, the parents of Natalie Beitel (center) look on as Aerospace Testing Alliance (ATA) General Manager Steve Pearson recently presented the 2012 Siegel High School (Murfreesboro) graduate with a framed Dr. Joseph J. Jacobs Scholarship Program certificate at the Arnold Engineering Development Complex (AEDC). Gregg Beitel is a lead intrusive diagnostics engineer with ATA's Technology and Analysis Branch at AEDC. Natalie, a freshman at the University of Tennessee Knoxville, is pursuing an electrical engineering degree. The Dr. Joseph J. Jacobs Global Scholarship Program is sponsored by the Jacobs Engineering Foundation. The program was created in 2009 as a tribute to Dr. Joseph J. Jacobs – the founder of Jacobs Engineering Group Inc. – for his commitment to higher education and his goal to make an education affordable to children. (Photo by Jacqueline Cowan)



Terry Rayfield, the father of Natalie Rayfield, looks on as Aerospace Testing Alliance (ATA) General Manager Steve Pearson recently presented the 2012 Tullahoma High School graduate (center) with a framed Dr. Joseph J. Jacobs Scholarship Program certificate at the Arnold Engineering Development Complex (AEDC). Terry Rayfield is a controls engineer with ATA's Information Technology and Systems group at AEDC. Natalie, a freshman at the University of Tennessee Knoxville, is pursuing an industrial (or biomedical) engineering degree. (Photo by Jacqueline Cowan)



Aerospace Testing Alliance (ATA) General Manager Steve Pearson recently presented Tracy McDonald with a framed Dr. Joseph J. Jacobs Scholarship Program certificate for McDonald's daughter, Hannah, who is a 2012 Franklin County High School graduate. Tracy McDonald is a project manager for ATA's Manufacturing, Piping and Hazardous Materials (PHMS) group at the Arnold Engineering Development Complex (AEDC). Hannah, who is a freshman at the University of Tennessee Knoxville, is pursuing a double major in Microbiology and Animal Science/Pre-Vet. (Photo by Rick Goodfriend)

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# Discovery Channel series highlights C-17 Globemaster III

**JOINT BASE ELMENDORF-RICHARDSON, Alaska (AFNS)** - The show "Mighty Planes" took aim at a new plane, the C-17 Globemaster III, and the Discovery Channel was here to film the versatile cargo plane from Sept. 20 to Sept. 26.

"The whole show Mighty Planes is exactly what it is, it's planes that are 'mighty;' that are big," said Stephen

Grant, the director of the Mighty Planes feature on the C-17. "We have done planes that chase hurricanes, planes that supply medical aid, but the C-17, much like the C-5 Galaxy, is larger than life and people don't get to see those every day."

Grant said the maneuverability of the Globemaster III impressed him.

"The thing that blew me

away is a plane that big can be that nimble in the air - we went up there and we had 75 paratroopers, and it seemed it could turn on a dime," Grant said. "When that thing accelerated over the mountains, you could feel it and it was awesome."

The Discovery Channel crew worked with many different people from throughout the 3rd Wing, but worked especially close

with members of the 517th Airlift Squadron.

Grant said the members of the 3rd Wing went out of their way to support his crew's mission.

"The guys here were fantastic," Grant said.

It seemed unanimous that the Discovery crew enjoyed the air-to-air refueling of the C-17 Globemaster III.

"One of the highlights

for me on the C-17 was to witness the air-to-air refueling, to be able to be so close to the other aircraft and to get that kind of access to shoot through the cockpit windows was absolutely incredible," said Chris Gargus, a freelance cameraman from Exploration Production Incorporated, Discovery Channel.

Gargus said he is confident fans of the Discov-

ery Channel will love the finished product when it finally airs.

"I think that there are a lot of options when you watch television," Gargus said. "But the people who are interested in this type of broadcast, the Discovery fans, are going to eat this stuff up."

The story behind the C-17 is what hooks people, he said.

## Air Force's scientist unveils Cyber Vision

**WASHINGTON (AFNS)** - The Air Force's top scientist presented the service's science, technology, engineering and mathematics developments recently at the Air Force Association's 2012 Air and Space Conference and Technology Exposition.

Dr. Mark T. Maybury, the Air Force's 33rd chief scientist, also pointed to the Air Force's new Cyber Vision 2025 document.

"(Cyber Vision 2025) shares compellingly why STEM is so important to our fight," Maybury said. "There is not a domain in the Air Force ... or any military war fighting mission, that doesn't rely on space and cyber."

The document, Maybury explained, directly connects current national strategy and enduring principles with future trends and challenges; focusing on cyber as a domain, and air and space command and control functions within that cyber domain.

According to Maybury, it ultimately provides a blueprint for how the Air Force should advance in the near, mid and long term in the cyberspace domain.

An Air Force veteran, Maybury also illustrated the accomplishments and challenges of accession, development and sustainment of the technically expert workforce STEM requires.

"Great education, training and capabilities - that triad is critical for development," he said.

The Air Force, Maybury added, is working to broaden professional opportunities with the course development in the cyber operator career field and Air Force Institute of Technology, partnerships with experts across the Defense Department and civilian areas of expertise, and critical research and exercises.

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# Sound barrier pioneer celebrates 65 years in an F-15

**NELLIS AIR FORCE BASE, Nev. (AFNS)** - Retired Brig. Gen. Chuck Yeager, the first person to fly faster than the speed of sound, celebrated the 65th anniversary of his groundbreaking event with a re-enactment here Oct. 14.

Yeager was serving as a test pilot and flying the experimental Bell X-1 named the, "Glamorous Glenis," Oct. 14, 1947, when he successfully broke the sound barrier.

"Up until that time we weren't able to do it," Yeager said. "Finally, in Oct.

14, 1947, we succeeded, and that opened up the doors of space to us."

Yeager's re-enactment flight began when he and the aircraft's pilot, Capt. David Vincent, 65th Aggressor Squadron pilot, flew an F-15D Eagle to 45,000 feet over Edwards AFB, Calif., and at 10:24 a.m. broke the sound barrier again.

"It was the greatest moment of my life so far," Vincent said. "It's like being with Christopher Columbus when he discovered the new world or

like being with Orville and Wilbur Wright on the first flight."

Vincent said Yeager hadn't lost a step and pointed out landmarks over Edwards AFB.

"It was a smooth flight today," the general said. "I'm very familiar with the area and got a good view."

Yeager finished his day with a meet and greet.

"I want to thank you all at Nellis," Yeager said. "The F-15 is my favorite airplane, and that's why I came here to fly it."

Yeager enlisted as a

private in the U.S. Army Air Forces Sept. 12, 1941. Later he was accepted to flight training in the flying sergeants program and, upon completion, was promoted to flight. Yeager demonstrated his flying skill during World War II when he became an, "ace in a day" after downing five enemy aircraft in one mission.

"What I am, I owe to the Air Force," Yeager said. "They took an 18-year-old kid from West Virginia and turned him into who I am today."



**Retired Brig. Gen. Charles E. "Chuck" Yeager prepares to board an F-15D Eagle from the 65th Aggressor Squadron Oct. 14, 2012, at Nellis Air Force Base, Nev. (U.S. Air Force photo)**



## Cadet candidate overcomes adversity

By Amber Baillie

U.S. Air Force Academy Public Affairs

**U.S. AIR FORCE ACADEMY, Colo.** (AFNS) - Home has never been where 18-year old William Roe's heart is.

A cadet candidate at the Academy's Preparatory School, Roe hopes to one day be an officer in the Air Force and has found his key strength through his education to get where he is today: from being hungry and living out of his mother's car at age six to being a step away from attending one of the most prestigious institutions in the nation, the Air Force Academy.

Originally from Robinson, Texas, Roe grew up in a low-income household amid continual drug abuse and hardship.

"Over the course of my life, my family hadn't done a whole lot to contribute to society in a positive way," Roe said. "My dad went to prison, my mom tried to overdose a handful of times, and my brothers got in a lot of trouble."

When Roe was just an infant, his father manufactured methamphetamine in their home. The house was eventually raided, and his father was sent to jail, leaving Roe, his mother and siblings on their own.

"My mom had a really hard time supporting us," Roe said. "I can remember times when she would put us in the car and tell us we were going somewhere, drive until we fell asleep and then we'd wake up in the car the next morning. I guess she just didn't have the heart to tell us that we didn't have anywhere to go."

At age 12, Roe began work for a local landscaping company to help pay the family's bills and set aside money for when he wanted to purchase things such as school pictures, yearbooks or field trips.

"I'm not going to say it was an enjoyable experience, but now that I'm older and not doing it anymore I'm pretty proud of it," Roe said. "If I hadn't gone through some of things I went through as a kid, I don't think I would have the level of maturity and mental toughness that I have today."

Roe said he doesn't remember a time when his family wasn't on food stamps, welfare or unemployment. He said there were several occasions where he and his brothers were separated from their mother and sent to live with distant relatives because they didn't have a place to sleep.

By age 15, Roe decided to no longer live at home, often times sleeping in the locker room at his high school, staying with friends or sleeping in the car he purchased after working a full-time job for eight months.

"A lot of people, when

they think homeless, they think of standing on the street corner with a cardboard sign, and that wasn't the situation at all," Roe said. "I was always welcome to come home, but it wasn't an environment where I could focus on my studies and not get into trouble."

Roe's brothers had all dropped out of school and became addicted to drugs.

"I saw my brothers get in trouble with drugs, dealing and fighting," Roe said. "I love my brothers, but as I got older, I realized that I wanted to be better and didn't want to follow in their footsteps."

Roe said he didn't always eat, especially the nights he slept in the locker room. He would skip dinner and wait until the next morning for his free breakfast at school.

"Kids would anonymously leave me food. I never felt bad accepting it because it's nice to know whether you talk about your life or not, people are willing to look after you," Roe said.

At age 16, Roe lived with his grandmother for a short period of time and faced further hardship when she was instantly killed in a car accident he witnessed on his way to her house.

"After the accident, I happened to be driving on the highway and recognized her truck," Roe said. "Being the one who lived with her and being close to the accident, I had to inform everyone what had happened. It's hard when you have to tell your mother that her mother had passed away over something so spontaneous."

Despite not always having a home, food or family members who cared about him, Roe said he always looked toward the future and found motivation and support through individuals and activities at school.

"School was the one place I was really comfortable," Roe said. "I had a great network of friends. I couldn't imagine being in this position if I hadn't gone to Robinson High School. The staff members went above and beyond to make sure I was successful and a lot of them gave me a place to stay."

Roe was the vice president of his senior class, a leader in National Honor Society, and homecoming king. He volunteered regularly to help tutor kids.

"I made an effort to become best friends with the people that I wanted to model my life after," Roe said. "I've aimed high in everything that I do so that one day, when I have my own family, I can provide for them and my kids will never have to go through the same things I went through."

Roe also participated



**Cadet Candidate William Roe (right) studies algebra with fellow Cadet Candidates Eric Zielen-Ersing (center) and Nathan McMurphy Oct. 3. Air Force Academy Preparatory School students spend much of their time on academics and military and physical training. (U.S. Air Force photo/Carol Lawrence)**

in sports: football, power-lifting, cross-country, track and soccer.

"I actually got recognized for doing the most sports in high school," Roe said. "It was constructive, a huge stress reliever and helped me get my mind off my family."

Upon high school graduation, Roe received a full-ride scholarship from Texas A&M as well as a \$20,000 scholarship from the Horatio Alger Scholar Foundation. Through the foundation, Roe took a trip to Washington, D.C., and met influential figures such as Supreme Court Justice, Clarence Thomas and actor Rob Lowe.

"I was one of 104 selected from 50,000 applicants," Roe said. "I met these incredible people and we had a formal induction ceremony inside the Supreme Court building. When the scholars walked down the aisle among all of these successful people who came from similar backgrounds as us and were successful, had respect for us and shook our hands when we walked passed them, that was the most incredible moment of my entire life. So far nothing has compared to that."

Roe said he applied to the Academy because he appreciates the structure of the military and thinks he could use his leadership potential if he became a second lieutenant.

"The more I looked into it, the more I wanted to be a part of the Air Force," Roe said. "I'm attracted to the wingman concept and appreciate that everyone is held to a higher standard and responsible for their actions. If they act out, they'll be punished for it. I love that aspect."

Although Roe wasn't accepted into the Academy, he said he chose to spend a year at the Prep School because he knew he would receive solid preparation to lead men and women if he were to become an officer.

"There were thousands of people who competed

just for a spot in the Prep School and only 240 people got in," Roe said. "I wasn't a recruit, my ACT scores weren't very high but I got here on my ability to overcome adversity. I now have my own bed, get to shower every night and I don't have to worry about my clothes not looking as nice as everyone else's because we're all in uniform. Every day I wake up and think about how awesome this opportunity is and I'm extremely grateful to be here."

Roe came to Colorado Springs not knowing a single person until he stepped off the plane and was approached by a complete stranger at the airport.

"This woman approached me and started to ask me questions," Roe said. "I didn't want to tell her much because I didn't know her but she proceeded

to tell me that she was a sponsor for two cadets at the Academy."

Roe said she offered him a place to stay for the night but he initially declined. He said it wasn't until she mentioned what she was cooking for dinner that evening that made him change his mind.

"I was extremely hungry and I honestly knew I probably wouldn't be able to eat that night because I didn't have enough money," Roe said. "I went home with her and the steak fajitas turned out to be terrific."

It was then when Roe found his sponsor family: Col. Rob Widmann, retired Lt. Col. Ida Widmann and their two sons, Robert and Alex.

"Not only was I able to eat that night but I was blessed enough to have met her and now I have people

who are willing to look out for me," Roe said.

Roe plays on the Prep School's soccer team and said as much as he would love to play for the Academy someday, only time will tell.

"I wanted to play soccer my whole life and can recall being seven, eight and nine years old asking if I could join the team and my parents would never let me," Roe said. "That's why I only played in high school. I would definitely like to join the track team at the Academy and would probably participate in long jump, high jump or triple jump."

Roe said it will be the hardest yet most fantastic decision of his life when he is forced to choose whether to pursue the Academy or attend Texas A&M at the end of the year.

## Energy Tip of the Day

When driving, you can save gas by simply going the speed limit, as well as maintaining proper tire pressure. Better yet: try carpooling. Carpooling, even once a week, can save as much as 20 percent on commuting fuel costs.



## 'Silent Sentry' gives deployed Airmen upper hand

**SOUTHWEST ASIA (AFNS)** - With the advancement of technology, satellite communication has been a key factor in maintaining space superiority throughout the entire area of responsibility.

Airmen assigned to the 379th Expeditionary Operations Support Squadron operate the Rapid Attack Identification Detection Reporting System (RAIDRS), which monitors and protects the U.S. military's SATCOM links. This mission is called Operation Silent Sentry.

Using RAIDRS, the team conducts defensive counter-space operations in support of theater campaigns and combatant commanders. They monitor high priority SATCOM signals, detect electromag-

netic interference on those signals and geolocate the source of that interference as well as other signals of interest.

"It's like a game of chess we are playing with the enemy," said Tech. Sgt. Josh Swicegood, 379th Expeditionary Operations Support Squadron Silent Sentry operator. "They attempt to run interference and we counteract by creating a work around. We continuously update our TTPs (Tactics, Techniques and Procedures) to best support our assets in the field."

Jamming occurs when a legitimate signal is overpowered by another signal. This can be intentional (hostile) or accidental due to misconfigured equipment.

Fortunately, RAIDRS

detects the jamming signal. When the enemy uses a SATCOM jammer, the jamming signal acts somewhat like a flashlight beam hitting a wall. The main portion of the jamming signal will hit the intended satellite, while a small portion of the signal also hits nearby satellites; similar to the way a beam of light would illuminate across a wall.

RAIDRS exploits these characteristics by measuring the time it takes the signal to travel the two different distances as it is relayed through the satellites. It also measures the observed difference in frequency between the two signals due to the Doppler Effect. Using this data, the Airmen then conduct a series of complex calcula-



**Staff Sgt. David Terry, 379th Expeditionary Operations Support Squadron Silent Sentry operator, uses a remote control to move a geolocation antenna to maximize the strength of the signal from an orbiting satellite. The Silent Sentry team monitors high priority satellite communication signals, detects electromagnetic interference on those signals and geolocates the source of that interference along with other signals of interest. (U.S. Air Force photo/Senior Airman Bryan Swink)**

tions to predict where the jammer is located. They relay the information for-

ward to ensure appropriate countermeasures are taken.

The team monitors hundreds of different signals 24 hours a day, seven days a week. Their unique capability is not only utilized by the Air Force, but also by numerous joint agencies in the AOR to support the United States efforts to combat the enemy throughout the world.

Operation Silent Sentry began as a proof of concept experiment in 2004, which led to a 120-day deployed demonstration in 2005. The program was so successful, U.S. Central Command retained the capability indefinitely.

"This is the Air Force Space Command's only defensive space control asset," said Lt. Col. Blake Tibbetts, 379th EOSS Silent Sentry commander. "Prior to Silent Sentry, our nation's SATCOM was completely vulnerable to jamming that went unresolved. Our ability to geolocate sources of interfer-

ence means the warfighter can find and resolve the source of the jamming, and the mission can go on. Under the Fly, Fight, Win banner, you don't know where to fly, what to fight or who won unless it's communicated correctly - we make that happen."

"This team is a great group of dedicated Airmen," said Capt. Chad Gilbert, 379th EOSS Silent Sentry crew commander. "They truly are technical experts and do an incredible job. Many of the circumstances they face over here, they have never experienced stateside in training, but they learn quickly and adapt to the situation."

The next installment to Operation Silent Sentry is RAIDRS Block 10. It is expected to be operational in 2013. The Block 10 system allows for the remote control of RAIDRS sensors located worldwide from a central operating location within the United States.

## Bringing the Thunder



**An A-10 Thunderbolt II takes off at Bagram Airfield, Afghanistan, Sept. 25, 2012. The A-10's capabilities allow it to conduct operations in locations in and out of front line combat. (U.S. Air Force photo/Capt. Raymond Geoffroy)**

## 'REEP'ing the rewards of energy conservation

**ROYAL AIR FORCE LAKENHEATH, England (AFNS)** - More than \$6 million was spent on base housing utilities in 2011 here and Royal Air Force Feltwell.

The 48th Civil Engineer Squadron housing office staff members are looking to reduce that number with the Resident Energy Efficiency Program they began Oct. 1.

The REEP initiative is a three-month-long trial program designed to increase awareness of how much energy a family is using by directly showing the cost of utilities on issued energy monitors.

"The concept is to provide people with the energy meters with a sort of mock billing they can see straight away on the meters," said Helen Kenyon, a 48th CES housing management assistant. "Combine that with education, and people are more aware of what steps to take to reduce their energy consumption."

Volunteers for the program will have energy monitors installed in their house along with a small handheld device that will tell the user exactly how much electricity is being used at any given time and how much that energy is costing.

"Volunteers will have a little sensor that will clip on to their house's electricity meter and that sensor will wirelessly send a signal to the handheld monitor," said Kenyon. "The user can

walk around a room, switch something off at the socket and see your energy usage drop down."

In addition to the energy monitors, volunteers will receive a sticker to put on the thermostat showing the conversion of Celsius to Fahrenheit to help prevent residents from setting the temperature too high and wasting energy.

"We're not telling you to turn off your heat and freeze," Kenyon said. "We're talking about really small changes such as turning off your lights and turning your heat down a little bit. But when applied across all the housing, it's going to save a lot of money."

Reducing 10 percent of base housing energy usage will help save government

tax dollars and also reduce the strain on the host country's energy.

"As soon as I heard about this program designed to save energy, and more importantly save money for the government, I wanted to sign up right away," said Senior Airman Seth Stambaugh, a 48th Contracting Squadron contracting specialist. "Conserving energy for me is important because we are not in our own country, and they are gracious enough to host us. We should be considerate to their energy needs and we should be conserving everything we can."

Data from volunteers will be used to build an energy conservation plan to be implemented across all of U.S. Air Forces in Europe within the coming months.





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

Check us out on Facebook! Arnold AFB Services Golf Course

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

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

## Arnold Lakeside Center 454-3350

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

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

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

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

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

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

Nov. 23: Closed

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

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

Arnold Lakeside Center welcomes back Pretty Discoveries for a **jewelry fair** Oct. 26 in the A&E building, Café 100, from 8 a.m. to 2 p.m. All jewelry prices are below \$20 and they also carry belts and handbags.

The annual **Chili Cookoff** is Oct. 26 behind Arnold Lakeside Center (ALC) beginning any time after 10 a.m. Chili must be ready to present to judges by 4:45 p.m. with judging at 5 p.m. Teams entering the event will need to provide all of their own supplies to start, cook and complete their chili entry and plan to make enough to provide samples as well as a batch for final judging. Teams need to be self sufficient and make all necessary arrangements for electrical (if required), tables, chairs, utensils, containers, ingredients, etc. The ALC will provide supplies for the judges and for the attending personnel not affiliated with a team to judge for people's choice. Any ties of any kind will be decided by public coin toss. Power may not be available to contestants so teams need to plan accordingly. Eight-foot tables are available to rent from the ALC or Outdoor Rec (454-6084) for \$4 each and must be reserved in advance to guarantee availability. Costumes and booth decorations are encouraged but not required. Official rule sheets are available upon request. Cash prizes, sponsored by Ascend Federal Credit Union, will be given for best tasting (\$200), best tasting runner-up (\$125), most unusual ingredient (\$75) and people's choice voted on by others in attendance (\$100 plus half of voting form sales). People's choice votes are \$3 per person for a voting form entry and includes napkins, cups and spoons for every booth entered in the competition. Call 454-3303 to register your team by Oct. 23. No federal endorsement of sponsor intended.

**Last Friday Trivia Contest** is 6:30 p.m., Oct. 26 and Nov. 30 with questions in random categories. Teams may have up to four people. No cell phones are permitted during the event. Anyone using a phone while a question is underway will

See Briefs, page H2

## Children's Christmas Party Dec. 2



The annual Children's Christmas Party will be held from 1 – 5 p.m., Dec. 2 at the Arnold Lakeside Center (ALC) for ages twelve and under. This event is free and open to all AEDC employees (active duty military, civil service, contractors), National Guard, Reserves, retirees and their immediate families (includes nieces, nephews and grandchildren). The annual Tree Lighting Ceremony will be held in conjunction with this event and

will begin when Santa arrives to help flip the switch. Santa is scheduled to arrive at 2 p.m. along with some of his friends. Santa and Mrs. Claus along with their elves will be in the Winter Wonderland tent to visit with the children at 2:30 p.m. Some of Santa's elves will also be in the Winter Wonderland tent to give out goodies to children age twelve and under. It is important to sign up so the elves bring enough. There will be other

activities as well as hamburgers and hot dogs served throughout the afternoon. A special Santa Hotline, 454-SNTA (7682), has been setup for children to leave a message for Santa. This number may also be used by parents to register children for the event. Simply press 1 to leave a message or 2 to sign up. Be sure to give your name and specify how many children and how many adults will be attending.

## Deck the Doors Contest is back

It's time to get the Christmas season going. Outdoor Recreation is once again conducting the Deck the Doors competition. Squadrons, offices or groups may enter and decorate their office door with a holiday theme or message. All wanting to enter must call to indicate they are participating by Nov. 21. Remember to give your building number and location of the door. Doors used for this event must remain functional if they were prior to decoration. Decorations on the door will be the only part judged. Any additional work on walls, etc. will not be judged with the door. Doors must be decorated by close of business Nov. 28. On Nov. 29 Outdoor Recreation staff will take pictures or come by with judges to view every door entered. Selections will be made for first, second and third place. Prizes will be a group function with Services valued at \$300 for 1st place, \$200 for 2nd place and \$100 for 3rd place. These are for a one-time event with no carry over but may combine several activities within Services. For example, you may choose to play paintball and have lunch or go on a boat ride and have dinner, play golf and have lunch or any combination. The winners will be announced at the DOD Holiday Party, Dec. 7.



## ODR Fright Fest at Crockett Cove

Outdoor Recreation has planned a Fright Fest at Crockett Cove for Oct. 27 beginning at 6 p.m. All ages are invited to come in costume for a bonfire where we will roast hot dogs and make s'mores. There will be four categories in both adult and child (age 12 and under) for the costume contest – scariest, funniest, most famous and best overall. Adults will win \$25 in Services Bucks for each category and prizes will be given in the children categories. Prizes will be awarded at 6:30 p.m. Remember this is a family event so costumes should be suitable for all ages. Following the costume contest there will be a movie, "Casper," on the outdoor screen so bring your blankets and chairs. For those daring souls, there will be a spooky trail through the woods starting at 8 p.m. Please note there will be some scary elements along the trail that may not be suitable for younger children. Cost for the entire evening of fun is only \$5 for ages 13 and older. Age 12 and under may attend for free. Soda and water will be provided and beer will be available for purchase. Call 454-6084 to sign up for this event by Oct. 25.

## Holiday Bazaar at Café 100 Nov. 15 and 16

Arnold Lakeside Center will hold a Holiday Bazaar in Café 100, 8 a.m. to 1 p.m., Nov. 15 and 16. Anyone on base may sign up to have a booth space. No food, alcohol, or

items in bad taste will be allowed at the event. Booth space is \$10 per day and includes one table and a chair. Setup may begin Wednesday afternoon and, if participating both days,

items may be left until Friday. Services is not responsible for any items left overnight or unattended. Sign up for booth space by Nov. 8 at 454-3303. Payment is required in advance.

## Thanksgiving Day Lunch Buffet

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



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

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## Services Division Phone Numbers

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

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

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

# November 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<i>Children's Christmas Party is coming Dec. 2!</i>				<b>1</b> ODR Winter hours begin: 10 a.m. – 5 p.m. Tue-Sat FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m. ALC Dinner & Movie Night "Total Recall" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	<b>2</b> FC Boot Camp 6 a.m. FC Yoga 11 a.m. ALC Shrimp Alfredo, \$9.95 member, \$11.95 non, 5-9 p.m. ALC First Friday Jam	<b>3</b> ODR Archery Basics Class, 9 a.m., \$3, ages 10+, sign up, 454-6084 ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084
<b>4</b>	<b>5</b> FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	<b>6</b> ALC AEDC Woman's Club 9:30 a.m. FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m.	<b>7</b> FC Boot Camp 6 a.m. FC Yoga 11 a.m.	<b>8</b> FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m. ALC Dinner & Movie Night "The Dark Knight Rises" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	<b>9</b> FC Boot Camp 6 a.m. FC Yoga 11 a.m. ALC Prime Rib for Two, \$29.95 member, \$31.95 non, 5-9 p.m.	<b>10</b> ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084 ODR Turkey Call Basics Class, 10 a.m. – 1 p.m., \$3, age 10+, sign up 3 days prior, 454-6084
<b>11</b>	<b>12</b> ALC Café 100 Closed 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.	<b>13</b> FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m.	<b>14</b> FC Blood Pressure Screening, Café 100, 11 a.m. – 12 p.m. FC Boot Camp 6 a.m. FC Yoga 11 a.m.	<b>15</b> ALC Holiday Bazaar, Café 100, 8 a.m. – 1 p.m., booth space \$10 per day, vendors register by Nov. 8, 454-3303 FC Cycling Class 11a.m. FC Interval Class 3:30p.m. ALC Dinner & Movie Night "Diary of a Wimpy Kid: Dog Days" PG dinner 5-8 p.m., movie 6:30 p.m.	<b>16</b> FC Boot Camp 6 a.m. FC Yoga 11 a.m. ALC Chicken Fried Steak, \$9.95 member, \$11.95 non., 5-9 p.m.	<b>17</b> ALC Day Trip to Lynchburg, 8:45 a.m., \$45, sign up by Nov. 9, 454-3303 ODR Archery Basics Class, 9 a.m., \$3, ages 10+, sign up, 454-6084 ODR Paintball Tournament, 10 a.m., ages 10+, \$55/team, sign up 454-6084
<b>18</b>	<b>19</b> FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	<b>20</b> FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m.	<b>21</b> FC Open 8 a.m. – 1 p.m., no classes ODR Deadline to sign up for Deck the Doors competition, 454-6084	<b>22</b> FC, GC, ODR, Café 100, GLC & Barber Shop Closed ALC Thanksgiving Day Brunch Buffet, 10:30 a.m. – 1:30 p.m., \$16.95 mbr, \$18.95 non, \$8.95 age 4-12, RSVP by Nov. 15, 454-3350 ALC No Movie Night due to holiday	<b>23</b> FC Open 8 a.m. – 1 p.m., no classes ALC, Café 100 & Barber Shop Closed	<b>24</b> ODR Paintball, 9:30 a.m., ages 10+, \$35, sign up 454-6084
<b>25</b>	<b>26</b> FC Boot Camp 6 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	<b>27</b> FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m.	<b>28</b> FC Boot Camp 6 a.m. FC Yoga 11 a.m.	<b>29</b> FC Cycling Class 11 a.m. FC Interval Class 3:30 p.m. ALC Dinner & Movie Night "The Bourne Legacy" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	<b>30</b> FC Boot Camp 6 a.m. FC Yoga 11 a.m. ALC Spaghetti & Meatballs, \$7.95 member, \$9.95 non, 5-9 p.m. ALC Last Friday Trivia, 6:30 p.m.	

## Hours of operation

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

## 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 September 2012 totaled \$5,244.35.

## Briefs from H1

### Arnold Lakeside Center 454-3350

be disqualified. There are eight rounds with three questions per round. At each round, teams have two, four and six points to wager before the question. Only one point value may be used per ques-

tion. For example, if you wager four points on the first question, then you must choose either two or six points for the next question. Whichever value is left must be used for the final question in that round. After the eighth round, teams may wager up to their total points earned for the final question. Prizes are awarded for top finishers.

**Day Trip to Lynchburg** set for Nov. 17. Plan to come with us on a trip to Lynchburg to visit the town square, Miss Mary Bobo's for lunch, then the Jack Daniel's Distillery Tasting Tour. The tasting tour differs from the regular tour in several different ways. It is slightly longer, including some stops not on the regular public tour

and the groups are smaller. The biggest difference is at the end there is an opportunity to sample small amounts of the distillery's best-known products: the original Black Label whiskey, Gentleman Jack and Jack Daniel's Single Barrel whiskey. The three samples together total one ounce. We'll start the day at the ALC at 8:45 a.m. The

first stop will be to get the wristbands for the tasting tour. Then we will visit the square to take in downtown Lynchburg and the shops. At 12:45 p.m., we will meet at Miss Bobo's for our 1 p.m. lunch reservation. When we are called to our table we will sit down to a real home-cooked meal served family style with plenty of South-

ern hospitality. After lunch we'll go back to the distillery for our special tour. Cost for this hometown adventure is \$45 and the trip is for ages 21 and older. Call 454-3303 by Nov. 9 to sign up for this event. Remember to wear comfortable shoes and bring extra money for shopping and souvenirs.

### Fitness Center 454-6440

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

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

See Briefs, page H3

**Briefs from H2**

Classes will be held as normal.

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

**Blood Pressure Screening** will be held in Café 100, 11 a.m. – 12 p.m., Nov. 14. Not sure what your blood pressure level is or why it matters? The Fitness Center staff will be providing free assessments and providing information. High blood pressure usually has no symptoms but can lead to serious problems. You can control high blood pressure through healthy lifestyle habits and medication. Stop by and see where your numbers fall and learn more about heart health.

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

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

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

**Winter hours begin Nov. 1, 10 a.m. – 5 p.m. Tuesday through Saturday**

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

Regular Saturday play is every weekend from 9:30 a.m. to 2:30 p.m. except third Sat-

urday due to monthly tournaments. Those interested need to call and sign up at least a day ahead of time to ensure equipment availability. When the day arrives, simply meet at the paintball field and get play underway with the direction of an Outdoor Rec (ODR) staff member. Cost is \$35 per person with equipment provided and includes 500 paintballs and a tank of air. It is \$20 per person for those with their own equipment and that also comes with 500 paintballs. All paintballs used must be purchased from ODR for \$13 per bag of 500 or \$45 for a box of 2,000.

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

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

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

**Turkey Call Basics Class** will be Nov. 10 for ages 10 and older. The class is \$3 and will be from 10 a.m. to 1 p.m. Deadline to sign up is three days before the class. There

# Hula Pole-ooza Fishing Derby results



- Age 5-7: 1st – Aiden Gold, 2nd - John Henry Keith, 3rd – Gregory Brandon
- Age 8-10: 1st – Zane Hopf, 2nd – Lynsey Jackson, 3rd – Megan Davenport
- Age 11-12: 1st – Zach Sheeley, 2nd – Dylan Petty, 3rd – Drake Sizemore
- Age 13-15: 1st – Daniel Toth, 2nd – Kate Andrews, 3rd – Natalie McDonald
- Overall Longest Fish (10 inches) – Tiffany Limbaugh

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

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

implement efficiencies and maintain lodging operations in a constrained budget environment, other adjustments may be necessary, according to Col. Thomas Joyce, director, AFPC Services Directorate. “We are committed to keeping room rates as low as possible while providing clean, comfortable, quality facilities,” he said. “This is part of our commitment to caring for Airmen and we take that obligation very seriously. However, we must be realistic as well.” Even with the rate increase, Air Force rates are lower than comparable commercial rates outside Air Force installations, the director said. Cou-

pled with quality service, clean facilities and reasonably priced room rates, Air Force lodging facilities are still a great choice, whether on temporary duty orders, retired and traveling, or just passing through.

**Gossick Leadership Center 454-4003**

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

**AEDC Woman’s Club 455-2552**

The **AEDC Woman’s Club** will meet at 9:30 a.m., Nov. 6

at Arnold Lakeside Center beginning with meeting, program and followed with lunch. The program will be by Jordan Love, singer and songwriter from Nashville. It is time for the annual “Secret Shopper” event where you can vote on the one who has the most for the money invested. Lunch will be a “Thanksgiving” meal with all the trimmings. Reservations must be made in advance. Call or email Liz Jolliffe at 393-2552 or [jajolliffe@aol.com](mailto:jajolliffe@aol.com).

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.

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

**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

## The Green Scene

brought to you by Services Recycling Program

# Recycling Paper

**All office bond paper, notebook paper, newspaper, magazines, file folders, telephone directories, paper bags, wrapping paper, etc.**

**Make sure the information is releasable before placing in community bins.**

**If you need a bin or your bin needs emptying before the routine pick up then you may call and request to have it emptied.**

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

## November Movie Schedule

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



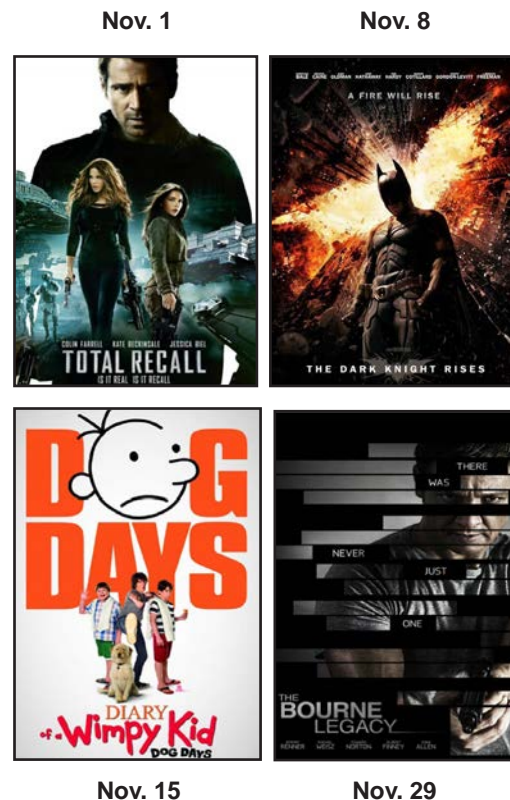
Movie nights are Thursdays with movie start time of 6:30 p.m. and dinner available from 5-8 p.m.

**Nov. 1** – “Total Recall,” rated PG-13 (1 hr. 58 min) starring Colin Farrell, Kate Beckinsale and Jessica Biel.  
Welcome to Recall, the company that can turn your dreams into real memories. For factory worker, Douglas Quaid, the mind-trip sounds like the perfect vacation from his frustrating life - real memories of life as a super-spy might be just what he needs. But when the procedure goes horribly wrong, Quaid becomes a hunted man.

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

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

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



**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.**

