



HIGH MACH

Serving the World's Premier Flight Simulation Test Complex



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New combined test force for AEDC's newest capability

By Philip Lorenz III
ATA Public Affairs

AEDC's leadership heralded two firsts at the Complex. One is the recent activation of the Space Combined Test Force (CTF). The other is acceptance of the new test and evaluation mission that the CTF will execute.

The CTF integrates Air Force engineers with Aerospace Testing Alliance (ATA)

contracted engineers and support personnel to jointly conduct testing in the Space Threat Assessment Testbed (STAT), a recently activated space test chamber.

STAT is the newest ground test capability at the Complex since the Large Rocket Test Cell came online in 1993. STAT will reach Initial Operating Capability in April, followed by Full Operational Capability certification by September 2013.

"The CTF is responsible for two mis-

sions: space sensors testing in our 7V and 10V chambers and space environments testing in STAT," said Chris Smith, technical director for AEDC's Space and Missile Test. "Our chambers will continue to be government-managed and contractor-operated. However, STAT will operate under the construct of integrated USAF/ATA test planning, design and operations."

Mike Ketron was recently selected as the Space CTF director.

"With commencement of STAT test operations and realization of the CTF, we will have military personnel, government civilians, and contractors participating collaboratively in test planning, coordination with test customers, test execution, and test data reduction," Ketron said. "ATA will be providing support as they always have with the various test chambers."

See FORCE, page 3

AEDC firefighters receive UXO identification training

By Philip Lorenz III
ATA Public Affairs

Denny Timmons, AEDC's installation restoration program and military munitions response program manager, was recently approached by Jim Miller and Yorky Knowles with EA Engineering, Corp., offering to provide AEDC's firefighters and security police with current unexploded ordnance (UXO) identification training.

Timmons said the timing for the UXO training is tied to the current sub-surface investigation phase of an ongoing, multi-year base-wide munitions remediation program with the goal of making Munitions Response Areas (MRAs) safe for reuse consistent with anticipated future land uses at AEDC.

Tech. Sgt. James Key, who has been the weapons safety manager at AEDC since May 2011, said it helps to understand why UXO's are on the base and the risks they pose.

"Since this area was originally the Camp Forrest camp and maneuver area back in the 1940s, there are a lot of UXOs that were left over," he said. "The recent training conducted by Yorky Knowles and Jim Miller was provided to familiarize the first responders at Arnold with the types of UXOs they may encounter. It is especially important for them to know what they are



During a class on UXO identification for AEDC's firefighters and security police officers, Jim Miller, the UXO safety officer for EA Engineering, Corp., holds two inert shell casings, in his right hand is a 37 mm armor-piercing round, and the one in his left hand is an expended 75 mm shrapnel round. He showed the class other UXOs and munitions remnants that can be found in what was once Camp Forrest's munitions ranges on Arnold Air Force Base. (Photo by Rick Goodfriend)

See UXO, page 4

Aviation Week honors AEDC's National Full-Scale Aerodynamics Facility

By Philip Lorenz III
ATA Public Affairs

Aviation Week & Space Technology magazine recently bestowed an Aeronautics/Propulsion award to a Speed Agile team that included employees of AEDC's National Full Scale Aerodynamics Complex (NFAC), Mountain View, Calif.

The publication presented their annual 56th Laureate Awards in Washington D.C.,

and other members of the Speed Agile Concept Demonstrator (SACD) program team receiving the Aeronautics/Propulsion award category included employees of the Air Force Research Laboratory (AFRL), Wright-Patterson Air Force Base, Ohio and representatives from Lockheed Martin Aeronautics, Corp. (LMC) Advanced Development Programs (ADP) Division.

See NFAC, page 10

Art test completed in Tunnel 9



This Bird in Space sculpture was the inspiration for a student's wind tunnel model tested in AEDC's Hypervelocity Wind Tunnel 9. The test article was based on L'Oiseau dans l'espace (Bird in Space), a series of sculptures by Constantin Brancusi, a Romanian artist. See the QR code in the photo for a story about the student's test. See test photos on page 8. (Photo provided)

Sonic boom! students, snakes and planes



Westwood Elementary School 5th grade students recently visited AEDC. The students performed a Body Spelling cheer for a decibel safety demonstration and learned about different species of snakes at AEDC. (Photos by Rick Goodfriend)



See more Westwood Elementary School tour photos on page 7

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HIGH MACH

Arnold Engineering Development Complex
An Air Force Materiel Command Test Complex

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- 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

Sequestration impacts our mission, people and bases

By Gen. Janet C. Wolfenbarger
Commander, Air Force Materiel Command

As commander of Air Force Materiel Command, headquartered at Wright-Patterson Air Force Base, I lead an organization of some 80,000 military members and civilian employees whose work touches every aspect of the Air Force. Arnold Air Force Base is one of the bases in my command.

When the warfighter calls for a new capability, we think it, we build it, we break it, we make it better, we deliver it to the fight, and we keep it there as long as it's needed. My people research, develop, buy, test and maintain systems and capabilities the Air Force needs to carry out its mission – from uniforms to fighter aircraft.

The on-going sequestration impacts every piece of the AFMC mission and, as a result, the entire Air Force in a multitude of ways. The cuts levied by sequestration will hit AFMC hard on three fronts – our mission, our people, and our bases such as Arnold AFB.

I do not yet know the precise reductions AFMC will take under sequestration, but, for planning purposes, cuts for the remainder of this fiscal year ending Sept. 30 are about \$300 million, or 29 percent of our remaining operating account, and \$1.4 billion, or 40 percent of the remaining readiness account we operate on behalf of the Air Force.

It is impossible at this point to estimate AFMC cuts beyond Fiscal Year 2013 over the 10-year life of sequestration. But we do know that sequestration impacts will be far-reaching across AFMC.

Impacts to Our Mission

Recapitalization and

modernization of the aging Air Force fleet, primary missions of the Air Force Life Cycle Management Center, headquartered at Wright-Patterson AFB, Ohio, will be slowed. Acquisition programs will be delayed or cancelled, some costs will rise, and much-needed capabilities will take longer to get into the hands of our warfighters.

At the Air Force Test Center, headquartered at Edwards AFB, Calif., the developmental test mission will be significantly impacted as we reduce operations at AFMC test ranges, stop all flight testing (except for the F-35) and test support toward the end of the fiscal year, and determine the status of upcoming Summer Test Pilot School classes at Edwards AFB.

Within the Air Force Sustainment Center, headquartered at Tinker AFB, Okla., we will have to reduce sustainment operations at our three depots by as much as 40 percent for the remainder of Fiscal Year 2013. Rough estimates include deferment of 297 aircraft and 197 engines for depot maintenance and major modifications. Depot operations will slow down, aircraft availability and mission capable rates will drop, and some aircraft will simply be grounded. It could take up to five years for depot operations to "catch up" once fully funded.

In the Air Force Research Lab, with locations across AFMC, sequestration cuts will force our labs to slow research; new technology transitions will be delayed to the warfighter for both their immediate needs and their longer term



requirements to execute critical Air Force missions in the years to come.

Impacts to Our People

AFMC's workforce is 77 percent civilian (about 60,000 of some 80,000 people). Like no other Major Command in the Air Force, the majority of AFMC will be hit hard by the planned civilian furloughs that will cut workers' pay by 20 percent through September 30. The impacts on my people will be significant. I don't know anyone who can take a 20 percent cut to their income, with minimal notice, and not feel it.

Many of my employees live paycheck to paycheck. A 20 percent pay cut is driving the majority of my workforce to face fears of how to pay their household bills. Many have expressed the need to work a part-time job to help cover the impact or withdraw from their retirement accounts to make ends meet. This will be devastating; we are breaking faith with our civilian Airmen.

The following are some specific quotes from some of my people:

"I will have to cancel my life insurance policy and reduce health care insurance coverage to cover the 20 percent loss of salary."

"I will be tapping into my 401K Retirement Plans for hardship loans, which will impact future retirement plans and cause me to incur new debts to pay off old debts. I may need to resort to "pay-day loan"



Gen. Janet C. Wolfenbarger

stations to pay bills."

This also impacts the communities surrounding our bases. Less money in the pockets of our civilians means less money to spend at the local grocery store, restaurant or movie theater. Less money will go to local taxes that pay for roads, schools and infrastructure.

Impacts to Our Bases

I am responsible for nine bases in my command, in nine different states across the country. The budget reductions will cut into my ability to maintain these bases where my people live and work, forcing my air base wing commanders to make tough calls on what to repair. Only true emergency repairs will be accomplished. Preventative maintenance on everything from buildings to communication networks will essentially halt. My people will come to work at bases where streets, buildings and housing will see all but emergency upkeep delayed.

The potential impacts on defense contractors will also be felt. Thousands of

contractors provide goods and services to AFMC and the Air Force. Sequestration will cause some contracts to be modified. Small contractors, who provide everything from office supplies to bomb fuses, will be hit especially hard since they do not have the financial depth of larger defense contractors.

If the House of Representatives Fiscal Year 2013 budget bill becomes law, its impact on sequestration translates into taking a step toward more regular order and removes uncertainty associated with the budget environment to date for this fiscal year. It will end the continuing resolution and finally give us a fiscal year 2013 budget. While not all that we requested, we hope the bill, when eventually reconciled with a Senate version, will give the Department of Defense more clarity and more flexibility as it carries out sequestration reductions.

Simply put, the impacts of sequestration are severe – to our mission, our people, and our bases and local communities.

Chaplain Nutter encourages personnel to 'Fear Not!'

By Lt. Col. Martin S. Nutter, Chaplain
AEDC Installation Chaplain

The words sequester, and sequestration, are words that weren't even a part of our vocabulary six months ago. Today, these words take "center stage."

Sequester and sequestration refer to budget cuts to particular categories of federal spending that began on March 1st. The cuts were enacted by the Budget Control Act of 2011 and initially were set to begin January 1, but was postponed by two months by the American Taxpayer Relief Act of 2012. The cuts are split evenly (by dollar amounts) between defense and non-defense categories. Sequestration impacts all levels: national, state and local.

AEDC Commander, Colonel Raymond Toth recently said, (The Tullahoma News, Sunday, March 17, 2013): "What this really means is with only six months remaining in the fiscal year, I must take significant and imme-

diated actions to live within the remaining budget and continue the test mission." Colonel Toth also stated: "These reductions will indeed impact the way we do business and the high standards we maintain. We are making focused decisions to ensure we continue our test mission as long as possible. He further stated that he has been meeting with Steve Pearson, general manager of Aerospace Testing Alliance (ATA), the AEDC contractor, to limit the impact on the base's civilian employees.

At all times – and I believe especially in these times – it is well to be reminded of the words of Jesus: "Do not worry about your life, what you will eat or drink; or your body, what you will wear. Is not life more than food, and the body more than clothes? Look at the birds of the air; they neither sow nor reap nor gather into



Lt. Col. Martin Nutter

barns, yet your heavenly Father feeds them. Are you not much more valuable than they? Who of you by worrying can add a single hour to his life? Therefore do not worry about tomorrow, for tomorrow will worry about itself. Each day has enough trouble of its own." (from The Sermon on the Mount, Matthew 6:25-27, 34)

Again the Bible says, (Philippians 4:6-7): "Have no anxiety about anything, but in everything by prayer and supplication with thanksgiving let your requests be made known

to God. And the peace of God, which passes all understanding, will keep your hearts and your minds in Christ Jesus."

Take time to listen to each other. Encourage one another. Be there for that person in your work area, across the hall, or in that cubicle next to you because you care for them!

Coming to such an hour as this could well be a great blessing for each one of us, AEDC, and our nation!

For, "when we are weak,

then we are strong." (2 Corinthians 12:12). And, although trials and tribulations seem to pull us away from the Lord, they actually unite us more intimately to Him and our dependency upon Him.

See these days not as a "hopeless end," but as an "endless hope" of service and of opportunity!

May the Lord richly bless you as you serve Him, as you serve one another and as you serve this great country!

Action Line

Team AEDC

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

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

Col. Raymond Toth
AEDC Commander

Smoking Policy

1. The following revised AEDC smoking policy is effective immediately. Smoking is permitted solely in designated areas identified by a plastic "smoke genie." This receptacle is for the sole purpose of cigarette butt disposal. If there is no receptacle, you cannot smoke in that area. It is the responsibility of all smokers to clean up the area surrounding the receptacles for any cigarette butts on the ground. Smoking in government-owned vehicles is strictly prohibited. Personnel are allowed to smoke in their personal vehicles at any time. In case of inclement or cold weather, employees are encouraged to use their personal vehicles if a sheltered designated smoking area is not available nearby. Smoking areas will be held to the absolute minimum and will be located in low traffic, low visibility areas away from points of building ingress/egress and air intakes. A map of all authorized smoking areas is available on the AEDC web portal at https://es.eis.afmc.af.mil/sites/cio/IM/Pubs/AEDC/Pubs%20and%20Forms/AEDC%20Publications/Smoking_area_map.pdf. Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

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

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

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

Pentagon Delays Sending Furlough Notices to Civilian Workforce

American Forces Press Service

WASHINGTON – Pentagon officials have put off sending furlough notices to civilian employees until they've had a chance to analyze how pending legislation that would fund the federal government for the rest of the fiscal year will affect the Defense Department.

Officials now estimate that furlough notices will go out on or about April 5, Navy Cmdr. Leslie Hull-Ryde, a Pentagon spokeswoman, said.

"The legislation could have some impact on the overall

number of furlough days, but no decisions have been reached, especially since the legislation hasn't been signed into law," Hull-Ryde said. "The number of furlough days at this point remains at 22."

Pentagon Press Secretary George Little said the delay makes sense. "We believe the delay is a responsible step to take in order to assure our civilian employees that we do not take lightly the prospect of furloughs and the resulting decrease in employee pay," he said.

F-35 production on track, program chief says

By Claudette Roulo

American Forces Press Service

WASHINGTON (AFNS) – The F-35 Lightning II Joint Strike Fighter program is a different program than it was four years ago, the F-35 program executive officer said here March 12.

In a speech at the McAleese/Credit Suisse Defense Programs Conference at the Newseum, Lt. Gen. Christopher C. Bogdan told attendees that he and his predecessor, Navy Vice Adm. Dave Venlet, worked with Lockheed-Martin and Pratt & Whitney to reform the problem-plagued development program.

"Lockheed-Martin and Pratt & Whitney have been doing a pretty good job over the last few years of stepping up and making those kinds of changes that the government needs for this program to succeed," the general said.

The aircraft's development has been rocky, Bogdan acknowledged. A redesign of the short takeoff and vertical landing system in 2004 led to delays and added \$6 billion to the cost of the development program, he said.

"Then, in 2009, we somehow managed to drive the train off the tracks on this program," Bogdan said.

The program breached the Nunn-McCurdy Act, which requires that programs exceeding certain parameters in costs and scheduling appeal to Congress to avoid cancellation.

Venlet led the program through the appeal process, the general said, and "basically gave us a great gift." The appeal led to an extra 30 months being tacked onto the development schedule and provided \$6 billion in additional development funds.

"Anybody that gets three more years and \$6 billion better be able to get a program across the finish line," Bogdan said.

Since then, he said, the program has been making slow and steady progress and is on track, particularly for two significant deadlines – 2015, when the Marine Corps is scheduled to have combat-ready aircraft; and 2017, when development is scheduled to end.

"Those two dates are extremely important," Bogdan said. "If I don't get to those two dates or I don't reach the finish line there, then we will continue to produce airplanes that don't have the capability that the warfighter needs."

Some of the program changes have been painful, the general said, but were necessary. For example, until 2010 the program was operating without an integrated master schedule, so it was difficult to track the systemwide effects of a change in any part of the program. The schedule has been built, and now tracks about 16,000 items, he said. It's a small thing that makes a big difference in how a program is managed, he noted.

"We can actually track each of those events and see how they affect the end timeline," Bogdan said.

His predecessor introduced a more radical change in the engineering process, the general said. Previously, design reviews were conducted by the program office, he said.

"Well, I have a good program office, but I don't have the resources, nor do I have the expertise that the entire Department of Defense has when it comes to building airplanes," Bogdan said.

Design review boards are now chaired by government executives from throughout the Defense Department who are seasoned engineers with experience developing successful aircraft programs, he said.

"And they draw on the expertise of all the people underneath them at those organizations to help us decide, technically, 'Are we ready to move forward?'" he added, noting that the change has paid great dividends.

The general said the program's affordability is his leading concern. The development program ends in 2017, he said, and is about 90 percent complete, with about \$6 billion left in the budget.

"That last 10 percent is the real hard 10 percent," Bogdan said. "So, what I have told the enterprise is, relative to development, we have no more time, and we have no more money."

This requires a change in mindset, the general said. Additional expenses have to be offset by a reduction elsewhere, and that, he said, may mean a reduction in end capability.

"That has profound implications for the warfighter. I can honestly tell you that the warfighter does not like me standing up saying that," Bogdan said.

"There will come a point in time when the enterprise and the warfighters will come back to me and say, 'Oh no, General Bogdan, that is not what we want you to do. That is too painful for us,'" he said. "Maybe they'll give me more money and more time, but I will not take the first step in asking for more money and more time. I will try and finish what I've promised to finish, given the resources I have."

F-35 production is "the shining star" of the program, the general said. About 30 aircraft are being built each year, he said, and the cost per unit has come down with each successive low-rate initial production, or LRIP, lot. Between LRIP 4 and LRIP 5, there was a 4-percent decrease in build costs, Bogdan said – a trend he said he believes will continue until per-unit costs approach the original 2001 estimate of \$69 million.

"I think we can get there," he said. "Lockheed-Martin and Pratt & Whitney are doing a pretty good job of coming down that

See F-35, page 11

AEDC legal office offers estate planning workshop

By Capt. Sarah Kress

AEDC Judge Advocate Office

I'm 25 years old, single, no children, and my most prized possession is my Rock Band videogame and my growing collection of Mossy Oak accessories. I don't need a will, right?

Well, that depends. Do you care what happens to your family or property if you become disabled or die? If so, you need a plan – an estate plan. A good one helps you preserve and build your estate during your life and pass it on as you desire when you die. It may save taxes and lower expenses too.

In other words, I suggest you keep reading.

Young or old; single, married, or divorced; financially wealthy or not – planning is important.

Effective estate planning is a continuing process that takes time and conversation. These conversations should not just be about what you own. Rather, you should talk with your family and friends about your goals, priorities and quality of life.

For instance, who do you want to make healthcare decisions on your behalf if you are incapacitated: (a) emotionally unstable spouse or parent, (b) the highly successful but "can't be bothered" older brother, or (c) Aunt Beth who lives far away but also happens to be a nurse?

Not sure where to begin? No worries, the Tennessee Legal Aid Society and the AEDC legal office are teaming up on April 1 to pres-

ent an informational workshop on the topic of estate planning.

The workshop will consist of a panel of attorneys from different practices, both military and civilian. The speakers will cover basic planning concepts (what is the difference between a will and a living will), and offer some suggested solutions, planning tools and other resources.

Although the workshop is not intended to be a substitute for one-on-one legal advice, it is a good tool for getting the discussion going.

If you are a military member, dependent, or retiree, and you

would like one-on-one legal advice from an attorney and you are not sure if you qualify for legal assistance, you can call AEDC Judge Advocate office at 454-7814.

In most cases the AEDC legal office will prepare your customized estate plan (most often a will, advance medical directive and power of attorney). In some cases, however, you or your family member may have complex needs beyond our expertise. In such a case, the AEDC legal office can discuss with you how to select an experienced estate planning expert.

Legal Aid Workshop:


Estate Planning

wills, living wills, planning tools, advance medical directive, power of attorney and more

April 1
12-1:30 p.m.
Main Auditorium

Open to military, civilian and contractor personnel

AEDC Judge Advocate office, 454-7814



FORCE from page 1



From left, Capt. Nicholas Bauer, STAT test director / conductor; Lt. Akshay Tripathi, STAT test conductor; Mike Ketron, Space CTF director; Alex Freehardt, STAT lead test conductor; Jim Nichols, STAT test director and lead analyst; Steve Macarino, STAT test conductor; and Jim Burns, CTF technical director, listen as Lt. Col. Gregg Leisman, AEDC Space and Missile test chief welcomes the team and celebrated stand-up of the new organization within his mission area. (Photo by Jacqueline Cowan)

The STAT facility is highly automated, which will make operating AEDC's newest test facility easier and require fewer "hands-on" operators.

Once fully operational, STAT will be able to simulate realistic operational environments for testing hardware using multiple space weather generators. STAT will subject test articles to conditions found outside the

Earth's atmosphere, including near-vacuum, extreme cold, and the combined effects of natural and man-made phenomena.

"We're going to be getting into this with test runs in the near future," Ketron said. "For certain requirements of testing, it doesn't make sense for the government to perform particular functions – what we used to call "crafts" kind of work. This

is traditionally what ATA has provided."

Mike Scott, an ATA test director for the STAT, sees this organization as a positive step for the future.

"Bringing Air Force and ATA personnel together to work directly toward the common goal of satisfying test customers will help morale and make for a more efficient test team," he said.

22 tips for 22 weeks of furlough

By Autumn Standley

Arnold AFB Casualty Assistance

With furlough looming over many of our heads, I've asked myself how I can help people get through this stressful time. Here are some of my tips:

1. Stop using your credit cards – no sense paying interest on things when your hours have just been cut. Take your credit cards, gas cards out of your wallet and put them in a secure place. Pay in cash, write a check or use a debit card. If you can't pay for it, then don't buy it!
2. Don't buy anything the first time you see it! Go home and think about it. Do you really NEED it or do you



Autumn Standley

WANT it? There is a difference!

3. If you're married, let the "cheaper" person carry the money. Shop from a list and stick to it.
4. Don't go food shopping when you're hungry. Make a grocery list and stick to it!

Stop by my office and pick up coupons before going to the store.

5. Turn off the lights when you leave the room, and don't forget the porch lights. I drive by houses all the time and the porch lights are on all day long!
6. Turn down the heat when you're not home or turn up the air conditioner during the summer when you're not home. If you have a thermostat with a timer you can bring the temp back to a comfortable level before you get home. If not then turn them to a comfortable level when you get home, it

See 22 TIPS, page 5

Former WAC interviewed as one of oldest living Airmen

By Randy Roughton
Air Force News Service

FORT MEADE, Md. (AFNS) – After Mildred McDowell left the Air Force in 1949, she had one regret - that she no longer had her Women's Army Corps uniform. Fortunately, the year before she died, someone read a story about her life and sent her a replacement. When McDowell died at the age of 104 on Nov. 15, 2012, she was buried in her uniform in Ramsey, Ill., about 75 miles north of Scott Air Force Base.

"She was very proud and pleased that she would be able to be buried in her uniform," said her grand-nephew, Chaplain (Lt. Col.) Stan Giles of the 134th Air Refueling Wing at McGhee Tyson Air National Guard Base, Tenn. "When she got her uniform, she breathed a sigh of relief because that was how she wanted to be buried."

McDowell, who may have been the nation's oldest surviving female veteran before her death, outlived all of her siblings, the people she served with during and after World War II, and even many of the students she taught in one-room schoolhouses in Illinois before she en-

listed in the WAC at the age of 35.

Symbols of McDowell's two careers were prominently displayed in her last home, a room in the Vandalia Rehabilitation and Health Care Center in Vandalia, Ill., about an hour northeast of St. Louis. A mirror with a retired U.S. Army decal faced her bed, upon which was a neatly folded red, white and blue towel with the words, "Freedom is Not Free." On a nearby bookcase was a figurine with an apple, books and the teacher's slogan, "To Teach is to Touch a Life Forever."

After teaching for 14 years, McDowell changed careers when she learned the military had begun accepting women during World War II. After training, McDowell was assigned to Roswell Army Airfield, N.M., and her first job was packing parachutes. But she soon imagined something going wrong for an Airman on a B-17 Flying Fortress because of a problem with a parachute she may have packed.

"I didn't like the job because I thought I might make a mistake and would cause an Airman to die from poor parachute packing," McDowell said in



Graphic by Sylvia Saab

an interview before her death. "So I asked for another job, and I worked in supply issuing airplane parts to the mechanics working on planes on the line."

McDowell was honorably discharged after the war in December 1945, but reenlisted March 18, 1946 and later transferred into the Air Force. She turned down an initial assignment in Japan and was sent to Germany, where she worked in the technical orders library. She lived in an old hotel on the northern bank of

the Rhine River in Wiesbaden that hadn't been bombed.

"The people were poor," she said. "They'd lost their homes and their jobs. A lot of their families had been killed. We would see little boys, maybe 5 years up to about 8 or 9, out scrounging in garbage barrels. They wore shorts, no shirts, and you could count their ribs, they were so skinny. It kind of hurt that they had to eat out of garbage."

But even American military members living in post-war Germany

had to deal with difficult conditions, especially in 1947 when the Rhine experienced one of its worst dry periods.

"We couldn't take a bath because we had to keep water in the bathtub just to flush the toilet," McDowell said. "One time, I had to go to work without brushing my teeth because there wasn't a drop of water in the place. That night, I scrounged around three or four floors up and found an old water glass. So I kept that glass filled for brushing my teeth. The poor Germans

were worse off than we were. You'd see them at the well waiting for every little cup of water."

She left the military as a WAC corporal in 1949. After she left active duty, McDowell completed 20 years in the Army Reserve. Her grand-nephew didn't learn about her military career until after he was already an Air Force chaplain. But he made sure his then-teenaged daughter had a chance to meet McDowell before she died.

"One of my fond memories was taking my daughter Shannon to see her when she turned 100," Giles said. "I told her, 'If you live to be 90 years old, you will have had a connection with somebody who goes back almost 200 years. She represented an example of a humble Midwesterner who set aside her own vocation and goals and joined the military to help the war effort and stayed in because she loved our country and military people. I think near the end of her life, she was proud of two things: having been a teacher and having served in the U.S. military. Obviously, she didn't die a rich woman, but she was rich with memories and experience.'"

UXO from page 1

looking for if they get a phone call from a hunter or other recreational user reporting a possible UXO. It can be difficult to locate the items since they have been exposed to the elements for 70 years. Showing them pictures of what the items look like in their current state can help with identification of the items out in the field."

Key said some UXOs are inert and not a risk, but it is equally possible many of them are still active and if disturbed by human contact, could detonate.

AEDC firefighter Sam Teat said operations level personnel attended the recent UXO training.

"I believe it was a good refresher on what we need to look out for while on wild land fires in and around the base," he said.

Jeff Thames, AEDC Fire Department fire and emergency services training officer, said the training

the firefighters received was invaluable, whether it served as a refresher course or their first exposure to the material presented.

"Its benefits are far reaching in that the knowledge gained could very well be years added to the life of someone who happens to encounter a UXO," he said. "Mishandling these objects could be catastrophic. This training was all about everyone going home safe at the end of the day. We had approximately 45 firefighters attending this class."

Thames added, "We are not only unique here at Arnold due to our current mission, but our history is one that has left remnants of the importance of our past mission. This type of training is eye opening, allowing us to understand that while new and innovative technology is necessary for progress, the knowledge and understanding of our past can be just as important to our future. It

will give them a new and different perspective when responding and fighting grass or brush fires."

James Wenger, an assistant chief of operations at AEDC's fire department, said the level of training at the recent class was critical to the complex's first responders.

"The most common scenario for us would be while attacking a natural cover fire in those areas or responding to an injured hunter or hiker who has wandered into that area by mistake," he said. "Most of us have no idea the type or quantity of munitions used back in the 1940's at the firing ranges. Gaining the knowledge of types and numbers of hazards present give us an edge we didn't have before for that area. Unless you're a munitions expert like the instructor was, the average first responder wouldn't have been able to distinguish fused munitions from a log in the



Addressing a class of AEDC firefighters and police security officers, Jim Miller, the UXO safety officer for EA Engineering, Corp., uses his arms to demonstrate the size of a 105 millimeter Howitzer round that can be found in certain areas [formerly Camp Forrest munitions ranges] of Arnold Air Force Base. (Photo by Rick Goodfriend)

woods, based on the age of the munitions."

Regarding how the information presented would be used in a broader context, Wenger said, "This information is key to enabling us to pre-plan future incidents in these areas and to include this information into our

annual training schedule for local hazards training along with munitions training.

"Additionally, if we have mutual aid support from surrounding communities, we can pass this information on to responding units when conducting initial site briefings upon their arrival

on scene. This will ensure that the future safety of our local response agencies is not compromised by sending folks into an area blindly. Hazards will be briefed to include pictures of known items removed from those areas and hazard areas not yet inspected."

High school campus named for AFMC commander

By Kim Dawley

Air Force Materiel Command Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Beaver Creek City Schools dedicated its high school campus to Air Force Materiel Command Commander Gen. Janet Wolfenbarger, a 1976 Beaver Creek graduate, in a ceremony held March 15.

The campus was renamed the “General Janet C. (Libby) Wolfenbarger Campus at Beaver Creek High School.” The school is located just a few miles from Wright-Patterson.

“It is our sincere hope that by naming this campus in your honor, our youth will be inspired by your example,” Peg Arnold, member of the Beaver Creek Board of Education, told Wolfenbarger during the ceremony. “We hope they will learn about your legacy, and see that hard work, responsibility, determination and love of country are ideals worth pursuing in their own lives.”

The ceremony included

the unveiling of plaques with a quote from Wolfenbarger that will be erected at the campus entrances, as well as presentations by several public officials.

Wolfenbarger has long-credited her education at Beaver Creek High School for the providing her the foundation for her success, at the U.S. Air Force Academy, from which she graduated in 1980 in the first class with women cadets, and throughout her career.

“The impact that this institution had on me is invaluable,” she said. “Beaver Creek really did arm me with the tools to succeed. Although I don’t believe that anyone can arrive at the Academy really ready for the incredible stress and pressure of that experience, thanks to the solid educational grounding that I received in these very halls, I truly had one less thing to be anxious about.”

After reflecting on her own time as a Beaver Creek

student nearly 40 years prior, the general shared with the current students a lesson she has carried with her since her time at the Academy.

“I never dreamed, as I left Beaver Creek High School and began my Air Force career, that one day I would come back to Dayton, Ohio, with four stars on my shoulder,” Wolfenbarger said. “But I came out on the other side of my Academy experiences realizing I am far more capable than I ever thought I could be. So here’s my message to you all: You are young. Your entire lives are ahead of you and you, too, can accomplish things that you have you never dreamed of. I encourage you all to make life goals, to follow your dreams and to stretch yourself along the way. And if you truly dedicate yourself, you, too, will realize that you are far more capable than you ever thought you could be.”

Wolfenbarger concluded her remarks at the ceremony by thanking the



Gen. Janet Wolfenbarger, Air Force Materiel Command commander, accepts a photograph of the newly renamed “General Janet C. (Libby) Wolfenbarger Campus at Beaver Creek High School” from Beaver Creek City Schools superintendent Bill McGlothlin during a dedication ceremony March 15. The plaque behind them will be erected at the campus entrance. The plaque reads: “General Janet C. (Libby) Wolfenbarger Campus at Beaver Creek High School. Dedicated March 15, 2013. ‘The education I received at Beaver Creek High School gave me the foundation to succeed. I challenge all students who enter this campus to reach for your dreams. You are far more capable than you think you are. If you think you can, you will.’ Beaver Creek High School, Class of 1976. U.S. Air Force Academy, Class of 1980. First Female Four-Star General in the U.S. Air Force.” (U.S. Air Force photo/Ron Fry)

faculty, staff and friends of the school.

“I am truly proud to

have my name added to the walls of this wonderful school and campus,” she said. “This is a tremendous honor, and I mean that from my heart.”

22 TIPS from page 3

7. Keep window shades down during the day in hot weather and open the shades in cold weather to let in the sunshine.
8. Save on your water bill by turning off the tap while you’re brushing your teeth or soaping up in the shower. You would be surprised how much water you’re wasting!
9. Think of alternatives to expensive gifts. Give your time or something you make.
10. Discontinue cable TV or cut back on optional channels.
11. Scale back vacation plans. Consider a camping trip or an off-season trip when rates are lower. Better yet, plan a staycation! There are wonderful parks and hiking trails right here in the local area! Or pitch a tent in your backyard and cookout.
12. Swap movies with friends instead of renting them or going to the movie theatre.
13. Hang wash to dry instead of using the dryer.
14. Instead of going out to eat with friends have a potluck dinner at home with friends; break out the kids’ board games or a deck of cards!
15. Consider raising the deductibles on car

- and home insurance. See if you qualify for insurance discounts (a good driving record or maybe you belong to AAA or AARP!)
16. If you have credit cards call the company(s) and see if they would lower your finance charges.
17. Trade babysitting with other parents, start a babysitting co-op.
18. Read the community calendar in the newspaper to find out about free community events.
19. Don’t eat out as much or use money-saving coupons when you do (we have these in my office also!) Restaurants are usually cheaper at lunch instead of dinner or they might have an “early-bird” special.
20. Get rid of temptations. Recycle your store catalogs and get them out of the house.
21. Cut down or eliminate your vices. Maybe you don’t need the glass of wine with every dinner. Eliminate the after dinner cigar. Cut back on the number of cigarettes each day.
22. Don’t pay full price for anything! Buy used, buy at outlet stores, buy store brands or buy in bulk. Buy what’s on sale. Watch the local papers for sales or coupons.

ATA and IGUA extends current labor contract

By Raquel March
ATA Public Affairs



The bargaining unit members of the International Guards Union of America (IGUA) Local 46 recently approved a one-year extension of their labor contract through March 31, 2014 with AEDC’s prime contractor ATA.

IGUA Local 46 has been a part of the Arnold Air Force Base security and base protection since 1952. AEDC’s security forces

are recognized by the state of Tennessee as certified police officers authorized to perform all police functions similar to any municipal police force.

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A life in flight for first woman 'Thunderbirds' pilot

By Airman 1st Class Alexander Riedel
Air Force News Service

FT. GEORGE G. MEADE (AFNS) – Since 1953, the Air Force's air demonstration team, the Thunderbirds, have captivated spectators across the world and showed its audiences what the Air Force's aircraft are capable of.

For two years, Lt.Col. Nicole Malachowski surprised audiences not just in the air, but especially when she stepped out of the cockpit of the fighter jet as the first woman to be accepted for a seat on the Air Force's premier show team.

Being on the crew took Malachowski full circle to the root of her career, she said. At just 5 years old, she visited an air show with her parents and was fascinated by the powerful roar and agility of the F-4 Phantom II.

"I remember looking my father in the eye and saying 'I want to be a fighter pilot

someday,'" Malachowski said.

Soon she began the journey to the cockpit by participating in the Civil Air Patrol at age 12 and took to the pilot's seat for her first solo flight at age 16 -- getting her pilot's license before her driver's license. She continued on her path, by applying to the U.S. Air Force Academy, receiving her commission in May 1996.

Malachowski went on to serve in three operational F-15E Strike Eagle fighter squadrons, holding positions as a flight commander and instructor pilot. She quickly amassed more than 1,600 flying hours, including 185 hours of combat time in Operation Deliberate Forge and Operation Iraqi Freedom. On the ground, she also served alongside the U.S. Army's 2nd Infantry Division as an

air liaison officer in South Korea.

In every job, Malachowski excelled, and her flying talent and real-world experience eventually got her selected as the first female pilot in any American military air demonstration team.

In interviews, however, Malachowski often repeated that she didn't think her gender set her apart.

"What we need to concentrate on is what we have in common, which is that warrior spirit that's in all of our hearts, that has created us the way we are -- to choose to be a part of something so much bigger than ourselves," Malachowski said during a speech at the Women in Military Service for America Memorial at Arlington National Cemetery in 2006.

But her role as a pioneer in the team was not lost on the officer.

"I never thought I would be a Thunderbird," she said

in 2007. "I still don't have my arms around it. I don't think I have fully grasped the significance, and maybe it is something I will figure out in a few years."

For her, the teamwork of all Airmen is what makes the Air Force mission possible.

"Women have been an integral part of the Thunderbird team for decades," Malachowski said in an Air Force press release; hinting at the enlisted women who served in support and maintenance roles with the Thunderbirds since 1974. "The women of yesterday and today's Air Force maintain a tradition of excellence, and it is that heritage that has given me this exciting responsibility of being the first female Thunderbird pilot."

In late November 2007, Malachowski finished her tour with the Thunderbirds and performed her last show in front of her hometown crowd in Las Vegas, Nev.



Then-Maj. Nicole Malachowski is the first woman pilot on the U.S. Air Force Thunderbirds. The Thunderbirds are the Air Force's premier air demonstration team. (U.S. Air Force photo)

But Malachowski's career did not stop with her last airshow.

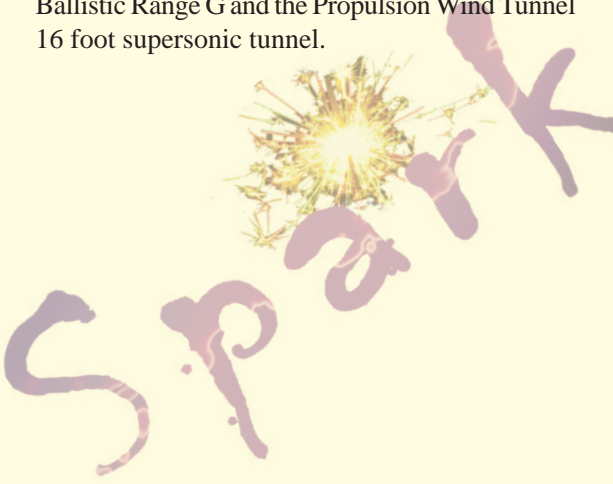
Leaving behind the stressful schedule of the show team, she took on new challenges from sup-

porting senior government leaders as a White House fellow, to her current position as the commander of the 333rd Fighter Squadron

See **FIRST**, page 11

Westwood Elementary School students get the AEDC experience

A group of Westwood Elementary School 5th grade students experienced some of what AEDC offers in aerospace testing, safety and conservation in a two-day Spark educational tour. The group, with more than 60 students, participated in hands-on demonstrations like knowing how to use personal protective equipment, land and wildlife conservation, how a vacuum works and rocket design and launch at the STEM Center. They also toured the Complex's Hypervelocity Ballistic Range G and the Propulsion Wind Tunnel 16 foot supersonic tunnel.



(Photo by Rick Goodfriend)



(Photo by Jacqueline Cowan)



(Photo by Rick Goodfriend)



(Photo by Rick Goodfriend)



(Photo by Rick Goodfriend)



(Photo by Rick Goodfriend)

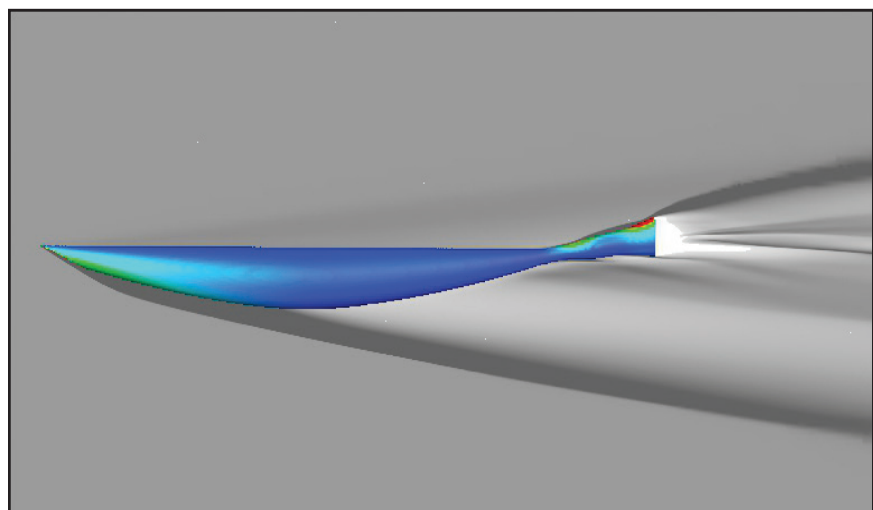


(Photo by Jacqueline Cowan)

Bird in Tunnel 9 space



Artist Inigo Manglano-Ovalle takes photographs of the Bird in Space student wind tunnel model in AEDC's Hypervelocity Wind Tunnel 9. The model is based on L'Oiseau dans l'espace (Bird in Space). Manglano-Ovalle suggested creating a sculpture inspired from the wind tunnel to be displayed in new construction at the Federal Research Center at White Oak - the property that Tunnel 9 occupies with the Food and Drug Administration. (Photo by Arnold Collier)



Students involved in the Bird in Space test were able to create a computational fluid dynamics (CFD) Schlieren image. See the QR code on page 1 for a story about the test. (image provided)

Airmen bike, run 465 miles in 48 hours

By Airman 1st Class William Blankenship
Air University Public Affairs

MAXWELL AIR FORCE BASE, Ala. (AFNS) – A team of students, faculty and staff members from Air Command and Staff College (ACSC) hit the ground running and riding March 7 to raise money for the children of fallen special operations members.

The team of 63 left Maxwell Air Force Base, Ala., on a 465-mile, 48-hour run and bike relay to the finish line at MacDill AFB, Fla., home of U.S. Special Operations Command.

The ACSC "road warriors" were raising money to benefit the Special Op-

erations Warrior Foundation, which provides college scholarships for surviving children, educational counseling for families and support to wounded special operations members.

Separated into nine groups, the athletes travelled in shifts to ensure a team was always on the road. Each shift varied from 3-mile runs to 20-mile bike and run combinations.

Their two-day journey meant more than just a fitness benchmark, however.

"Hopefully, we can raise awareness and a good bit of money to help

out families who had a loved one pass away," said Maj. Matthew Astroth, a student at ACSC.

After all teams participated in an initial run from Maxwell AFB to the starting line in downtown Montgomery, Ala., the other teams were shuttled to various starting points on the route, depending on their team's next leg for rest and recovery. With little time between each leg, team members had barely enough time to shower, wash their bike riding apparel and snatch two or three hours of rest before they were due for another round.

The endurance ride and

See **AIRMEN**, page 11



A team from Air Command and Staff College cycles through one leg of the ACSC Warrior Relay from Maxwell Air Force Base, Ala., to MacDill Air Force Base, Fla., March 8. Nine teams of seven members alternated on the 48-hour nonstop journey to Florida's Gulf Coast. (U.S. Air Force photo/Airman 1st Class William Blankenship)

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Team R.P.G. wins Rockwell Innovate award in FIRST® Tech Challenge

By Raquel March
ATA Public Affairs

Team R.P.G. (Robot Programming Guild), a Tennessee team, recently competed in the FIRST Tech Challenge (FTC) in Owensboro, Ky. where they won the Rockwell Innovate award for their wheel design.

The FTC is designed for students in grades 7-12 who want to compete head to head, using a sports model. Teams of up to 10 students are responsible for designing, building and programming their robots to compete in an alliance

format against other teams. The team was able to acquire a robot and compete due to sponsors like AEDC's STEM Center coordinator Jere Matty.

Mark Ferguson, the team's coach, said the award the team received is only issued to one robot per competition.

"Guidelines for the Rockwell Collins Innovate Award Robot or robot sub-assembly must be elegant and unique in its design; the creative component must work reliably; the team must submit an engineering notebook; the robot is stable, robust

and controllable; and the robot design is efficient and consistent with team plan and strategy," Ferguson said.

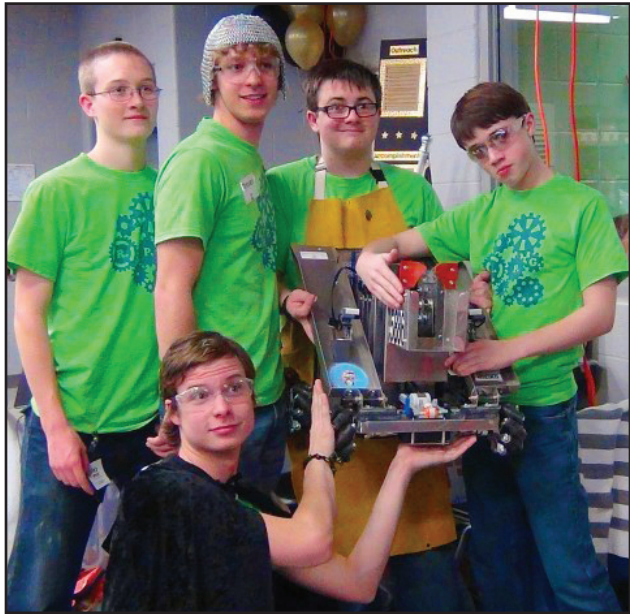
The team's coordinator, Kimberly Ferguson said the team members are from

Eagleville High School, Central Magnet School, Friendship Christian School and Volunteer State Community College.

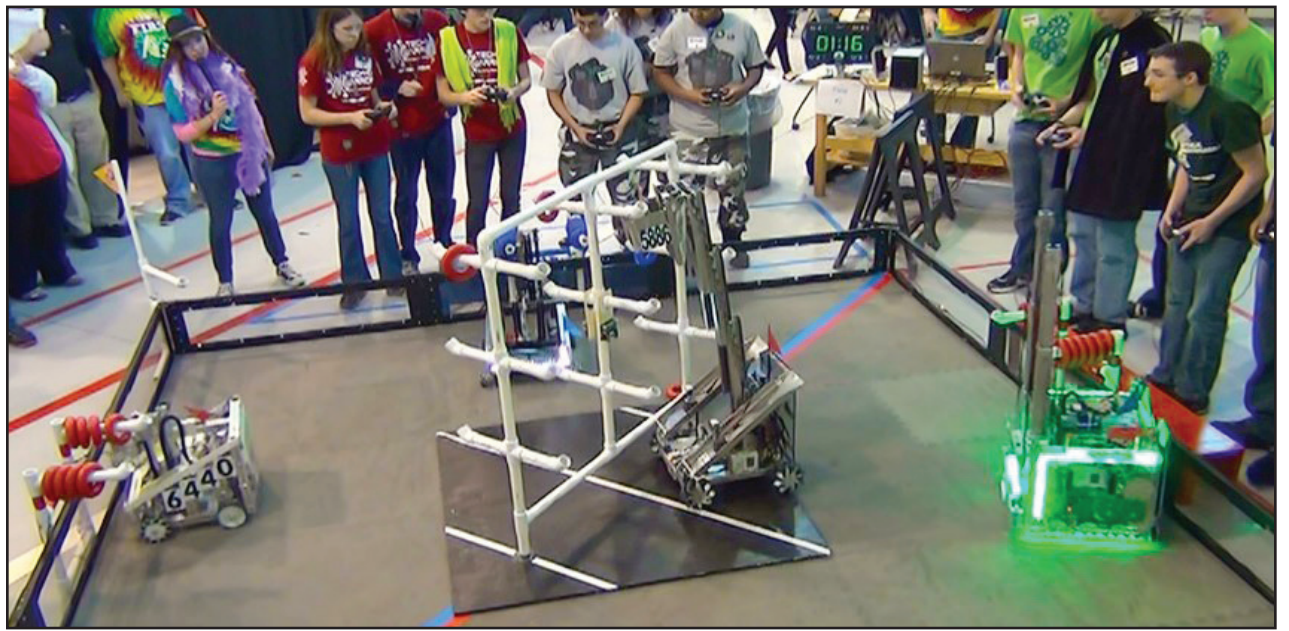
Teams, including coaches, mentors and volunteers,

are required to develop strategy and build robots based on sound engineering principles. Awards are given for the competition and for community outreach, design, and other real-world

accomplishments. AEDC's STEM Center is a sponsor for two FTC teams. For more information about AEDC's STEM Center see this link: www.arnold.af.mil/STEM.



Members of team R.P.G. shown left to right are Chance Ferguson, Eagleville High School; Ryan Baxter, Central Magnet School; Joshua Garnto, Friendship Christian School; Chandler Bastin, Friendship Christian School; and Josh Freiberger (bottom), Volunteer State Community College. (Photo provided)



Team R.P.G.'s robot, center, tries to complete a task during a challenge. (Photo provided)



FIRST Tech Challenge Rockwell Innovate award (Photo provided)



Chance Ferguson and Joshua Garnto work on changing out the motors while Chandler Bastin watches. (Photo provided)

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NFAC from page 1

Each year, Aviation Week & Space Technology, which reports on the full scope of the aerospace industry, including global aviation, aerospace, defense, corporate and government entities, honors the extraordinary achievements of individuals and teams in the aviation, aerospace and defense communities.

The Speed Agile team sought to develop and advance a concept for a next-generation, heavy-lift, fixed-wing military transport aircraft capable of combining short take-off and landing (STOL) capabilities with efficient transonic cruise. The overall program goals also have potential extensions to the future of civil aviation. The program consisted of six tasks—incl uding testing at NFAC and NASA Langley's National Transonic Facility.

"The NFAC test program was one of the tasks associated with the overall development, which included initial and detailed configuration designs, testing at NFAC and [NASA] Lang-

ley's National Transonic Facility and development of a six-degree-of-freedom flight simulator," said Patrick Goulding II, who led the NFAC test efforts. "The NFAC test was instrumental in collecting low-speed data on a large-scale powered model of the aircraft and served as a key proof of concept for LMC's innovative Hybrid Powered Lift System—which combined circulation control wing technology with a specially designed Reverse Ejecting Nozzle that provided thrust vectoring."

Goulding said he is proud of what the team at NFAC was able to accomplish.

"This test program required tremendous effort from the entire NFAC staff," he said. "NFAC personnel worked diligently and professionally with representatives from LMC, ARFL, and the model builder to ensure the test was safe, efficient and successful despite a great deal of challenges and adversity."

Most of the challenges



From left, then AFMC commander Gen. Donald Hoffman and AEDC's National Full-scale Aerodynamic Complex (NFAC) Test Director Patrick Goulding II get a close look at a 23-percent scale model of the Speed Agile technology demonstrator that recently underwent aerodynamic testing in the world's largest wind tunnel at NFAC in Mountain View, Calif. (Photo provided)

were associated with dealing with the large and complex test article—which featured a 41-foot wingspan, live jet engines, remotely-actuated control surfaces and a highly intricate suite of instrumentation.

"The flexibility and expertise of the NFAC mechanic and instrumentation crews were crucial in

helping the test efficiently recover from issues as they arose," he said. "NFAC also worked to find ways to improve certain elements of the model design as the test continued and make the model more robust and reliable."

NFAC testing was focused on providing proof of concept for the Hybrid

Powered Lift System in a large, powered model and collecting critical low-speed take-off, landing and approach and cruise data for use in developing a flight simulator. The data was used in conjunction with the high-speed transonic data collected at NASA's National Transonic Facility to fully char-

acterize the design space.

"NFAC provided a test environment that allowed Lockheed Martin to test their configuration at very large scale," Goulding said. "By combining data from the 80x120 [wind tunnel] and 40x80 [wind tunnel], the test team was able to obtain quality thrust calibrations and characterize all the critical low-speed performance associated with approach, take-off, and landing—the most critical flight control regimes.

"The scale of the NFAC tunnels also allowed for a model that was large enough to incorporate live engines, a fully-adjustable set of control surfaces, and a complex suite of instrumentation, all of which were critical to establishing proof of concept and advancing the Technology Readiness Level."

NFAC's contributions to the overall SACD program were key in making the program a success and helping it achieve this prestigious notoriety.

Oldest U.S. military flying unit celebrates centennial

By Senior Airman Shawn Nickel
9th Reconnaissance Wing Public Affairs

BEALE AIR FORCE BASE, Calif. — The 1st Reconnaissance Squadron at Beale Air Force Base, Calif., celebrated its 100th anniversary March 7-9 as the oldest flying unit in U.S. military aviation.

The squadron opened its doors to the base populace and special guests for tours, and two days of historical symposiums were held featuring former SR-71 Black Bird pilots, commanders and history experts.

In addition, a plaque was dedicated to the squadron at Heritage Park, and a military dining-out commemorated the event.

"It's an honor to be part of this historic occasion," said current 1st RS commander Lt. Col. Stephen Rodriguez.

"We stand on the shoulders of giants here as we continue the proud tradition of providing [intelligence, surveillance and reconnaissance] to war fighters."

One speaker at the symposiums, Maj. Gen. (Ret.) Patrick Halloran, was one of the first pilots for the U-2 and SR-71. Halloran gave vivid descriptions of missions during the Cold War, training and being commander of the 1st RS.

"The U-2 and SR-71 are the biggest long-term contributors to the 1st," he said. "Those two airplanes made tremendous contributions to history, and I am proud to have been part of this outfit."

Paintings of 1st RS aircraft, unveiled for the Air

Force Art Program, were donated and prints were sold during symposiums to help supplement the cost of the celebration.

"These presentations were a very interesting perspective into the history of the 1st RS and the history of aerial reconnaissance from some of the top experts in the field," said Col. (Ret.) Dave Pinsky, Pacific Coast Air Museum executive director and former 9th Reconnaissance Wing commander.

The plaque at Heritage Park rest in the shadow of an SR-71 static display and reads, "This site honors the men and women of the 1st Reconnaissance Squadron, oldest flying unit in the United States military, and commemorates its unbroken heritage since its founding on the 5th of March 1913."



U.S. Air Force Col. Phil Stewart, left, 9th Reconnaissance Wing commander, and Lt. Col. Stephen Rodriguez, 1st Reconnaissance Squadron commander, unveil a commemorative plaque celebrating the 1st Reconnaissance Squadron's 100 year anniversary on Beale Air Force Base, Calif., March 8. The 1st RS is the United States military's oldest flying unit, established March 5, 1913. (U.S. Air Force photo by Airman 1st Class Bobby Cummings/Released)

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FIRST from page 6

at Seymour Johnson Air Force Base, N.C.

Malachowski said she hopes her service in the Thunderbirds was an example to young girls and

to all children that they can achieve their dreams.

"The message to all young Americans is that it's great to have a dream; it's great to have goals," she

said. "Pursue something that you are passionate about, and then pursue excellence in that. And surround yourself with a positive team. I hope that when they see the



Then-Maj. Nicole Malachowski answers questions at the Women in Aviation and Space Family Day March 14, 2009 at the National Air and Space Museum's Hazy Center in Chantilly, Va. The event featured female air and space pioneers, including astronauts, a World War II Women Airforce Service Pilot and several aerospace experts at exhibit booths where visitors could learn hands-on about science and flying. Major Malachowski was the first female Thunderbirds pilot. (U.S. Air Force photo/Staff Sgt. J.G. Buzanowski)

F-35 from page 3

cost curve. They're getting more efficient in their production line [and] their quality is going up, ... and that is a good thing, because I promise you the one thing that our partners care most about is how much this airplane's going to cost."

Eight nations have committed to participate in the development program, and another three may buy F-35s, with nearly 3,000 aircraft expected to be produced.

With such a large order and so many partners invested in the aircraft, it's essential to keep costs down to avoid what Bogdan called the "death spiral," something he said he's seen kill off many programs.

The death spiral is when increasing costs lead to a reduction in the number of units purchased, which in turn leads to further per-unit

cost increases, and so on.

"I don't think that's the fate of this program," Bogdan said. "But the proof is in the pudding, and we have to continue to see Lockheed-Martin and Pratt & Whitney investing in making the production line more efficient, squeezing the costs out, and getting the unit cost of this airplane down. I think they can do it, but we have to wait and see."

Production costs are only part of the puzzle, however. About 70 to 80 percent of any program's costs are in the long-term operation and sustainment phase, the general said.

What's unique about the F-35 is that the Defense Department has never had to estimate the costs of a 50-year aircraft life cycle, he said. Adding to the complications of producing such a cost estimate is that

the department hasn't had an aircraft program this large since World War II, Bogdan said.

"So, lots of airplanes over a very long period of time, with inflation added in, you can understand how the (Office of the Secretary of Defense) guys come up with a number like \$1.1 trillion," he said. "That's an astronomical number; it's based on a lot of assumptions. I'm not saying that that's a bad number; I'm just saying we need to take that number with a grain of salt."

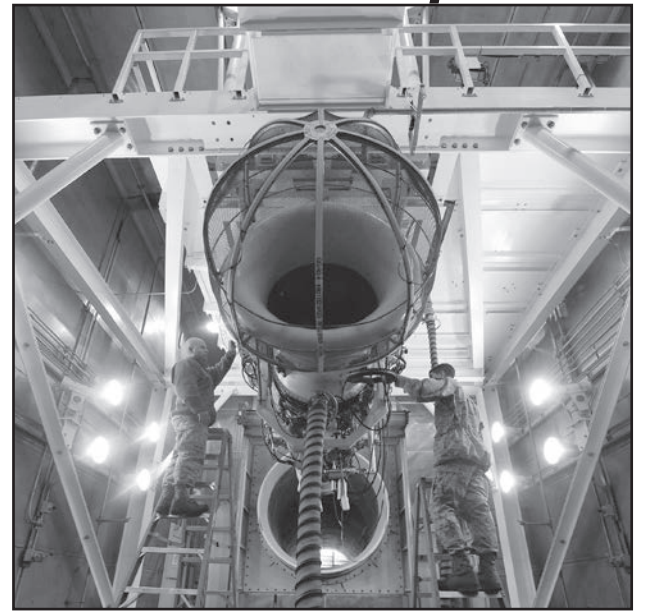
What he does know, he said, is that action must be taken soon to reduce the F-35's long-term sustainment costs. Without it, the general said, a time will come when the services decide that the aircraft is no longer affordable.

"So we have to start doing things today," Bogdan said.

Air Force Thunderbirds, they realize they can achieve any dream, and that a great team to have is certainly the Air Force."

In the Thunderbirds' famous flying diamond formation, Malachowski flew in the F-16 Fighting Falcon No. 3, right wing jet – a position again filled by a woman today. Maj. Caroline Jensen continues to inspire dreams at airshows across the country.

"Women have been involved in aviation since the time of hot air balloons," Malachowski said at the 19th Annual International Women in Aviation Conference in San Diego, March 14, 2008. "It's only normal to me that women are going to add their strength and skills to the effort of pushing aviation forward."

Heart of the Spirit

Staff Sgt. Eric Barnes and Airman 1st Class Lester Popham close an inlet bell mouth for a B-2 Spirit engine inside the test cell Feb. 13, at Whiteman Air Force Base, Mo. The inlet bell mouth distributes and guides air into the motor to allow the engine to run smoothly in the test cell. Barnes is the 509th Maintenance Squadron test cell assistant section chief. Popham is a 509th MXS aerospace propulsion apprentice. (U.S. Air Force photo/Staff Sgt. Nick Wilson)

AIRMEN from page 8

run took its toll on the participants both mentally and physically.

"It was definitely challenging physically," Astroth said. "During the night, when it was freezing cold and we were running or biking up these freakish hills, we had to keep in mind that this wasn't about us, it was about something bigger than ourselves."

With helmets buckled and biking shoes clamped onto pedals, the teams pushed on through the nights and days, enduring multiple shifts with few hours separating the exhausting effort to reach MacDill AFB.

"After doing multiple legs in one day with only a small cat nap here and there during the day, it became a real stress on the body," said Maj. Jose Vasquez, an ACSC student. "It was definitely a

team effort to keep each other motivated when it was 30 degrees and pitch dark through the night. My fingers and toes lost feeling through the night, but we all knew why we were out there doing this and it makes the pains we endured worthwhile."

On the second day, with the Florida coast within view and the sun rising above the horizon, the riders picked up their pace. Team members stretched their aching muscles and ate their last bites of food on their final leg to the finish line at MacDill AFB's Special Operations Memorial.

"Each leg (of the race) got a little harder as we went along, but we wanted to raise money for those people who got left behind," said Maj. Deirdre Gurry, an ACSC student. "Most of the people on

the team picked the name of a wounded warrior to ride or run for or the name of someone they know who has benefitted from this program, so the cause strikes close to the heart of many of us."

At the finish line, tears mixed with joy and exhaustion blended with thoughts of why the race was run.

"Our goal was to raise awareness for the foundation and raise as much money as we can," Astroth said. "I would say that the first attempt at this event went well, and my hope is that a child can benefit from what we did the last 48 hours, and hopefully, lives will be impacted in a positive way."

At the end of the relay, the ACSC team presented their donation of \$20,000 to the Special Operations Warrior Foundation.

Arnold Golf Course
454-GOLF, 454-FOOD

Check us out on Facebook! Arnold AFB Services Golf Course



The **Commander's Season Opener** will be a four-person scramble April 13 with an 8 a.m. shotgun start. Entry fee is \$25 per player and includes lunch. Green fee and cart fee are extra. Sign up by April 11.

Did you know **breakfast at Mulligan's Coffee Bar & Grill** is served all day on Saturday and Sunday? The grill is open 8 a.m. - 2 p.m. and you may order breakfast items anytime during those hours. Lunch items are served beginning at 10:30 a.m. Lunch is also served Monday through Friday 10:30 a.m. - 2 p.m. Call 454-FOOD to place advance or to go orders.

Arnold Golf Course is offering a **Spring Into Golf Special** every day in April. A special price of \$26 includes 18 hole green fee, 18 hole cart fee plus hot dog and fountain soda - a \$35 value!

Arnold Golf Course Customer Loyalty Program

Purchase an annual green fee for the 2013 season and receive:

- 10 percent discount on Pro Shop merchandise
- 10 percent discount on Cart rental
- 10 percent discount on Driving Range tokens
- 10 percent discount on food/beverages at Mulligan's Coffee Bar & Grill

These discounts are good April 2013 through March 2014. Not valid in conjunction with the Members First Plus discounts. Maximum discount allowed is 10 percent. Sale items and alcohol are not authorized for these discounts.

The **2013 AEDC Golf League** will begin play at Arnold Golf Course April 15. The league is limited to the first 20 four-person teams to sign up. The format is four-person team match play with a maximum individual nine-hole handicap of 13 established. Ladies will play from the red tees, men under age 60 will play from the blue tees, and men age 60 and over may choose to play from the gray tees. Each team will play either Monday or Tuesday at 4:30 p.m. for a maximum of 19 weeks dependent upon the number of teams entered. There will be no league play on the weeks of Memorial Day and July 4th. Daily green fees will apply and vary depending on use category (i.e. military, DoD, contractor, other). To enter a team, send an email to one of the contacts below and include your team name, names of members with phone numbers, and identify the team captain. All entries must be submitted by March 30. If you are interested in participating please contact one of

the following: ATA contact J.T. Northcutt, 454-4771, or Lyle Sissom, 454-5199; DoD contact Kemp Brooks 454-6870; others contact Arnold Golf Course 454-GOLF. This is a Fitness Center program ran through and held at Arnold Golf Course.

2013 Tournament Schedule

- April 13 - Commander's Season Opener (4-person scramble)
- April 15 - AEDC Golf League begins
- May 2 - Thursday Night Scramble begins
- May 11 - Two-Person Triple Play Tournament
- June 22-23 - Member-Guest Tournament
- July 20-21 - Arnold Tri-City Open Championship
- Aug. 24-25 - Club Championship
- Sept. 5 - AEDC Golf League Awards Banquet
- Sept. 19 - Thursday Night Scramble Ends
- Sept. 21 - Member Member Tournament
- Oct. 5 - Season Ending Tournament

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

Arnold Lakeside Center
454-3350

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



Starbucks Veranda Blend Blonde Roast Coffee is now available in Café 100. The blonde roast is a mellow blend with a soft and friendly disposition. Try a blonde roast in tall, \$1.25, grande, \$1.50, or venti, \$1.75. Café 100 is located in the A&E Building, Room C102 (just inside the loading dock door, to the left) and is open 6:30 a.m. - 1:30 p.m.

The **"Make the Right Choice - Get Rewarded" Membership Drive** ends March 31. There are only a few more days to take advantage of the specials for current and new members. New members that join during the drive will get three months free dues plus instant win \$5-\$100 Services gift card. Promotions during the event for current and new members are Punch Cards and Enter to Win. Punch cards are avail-

able in Café 100 and Mulligan's Coffee Bar & Grill. Two cards are available - Combos and Coffees. Buy five combos and get your sixth one free (up to \$6) and buy ten coffees and get your eleventh free (up to \$3). Earn punches through March 31 and redeem by April 30. Show your membership card (or temporary membership card for new members) and enter to win weekly drawings during the drive. Entries may be made at Arnold Lakeside Center (ALC), Café 100, Outdoor Recreation (ODR), Golf Course (to include Mulligan's Coffee Bar & Grill) or Fitness Center. Entries are limited to one per member per visit. Prizes to date are Lunch for Two at Mulligan's Grill (Lyndon Haston), Canoe or Kayak for the day from Outdoor Rec (Dane Barstad), Large Pizza from ALC or Café 100 (Robert Clark), \$25 Services Bucks (Ronald Early), Dinner for two at ALC (Larry Davis) and Dinner for four at movie night (Peg Proffitt). Still to come are Night at Crockett Cove or Dogwood Ridge and \$50 Services Bucks. The Finale Event will be held March 29 in Café 100 from 10:30 a.m. to 1:30 p.m. Current and new members will get a free sampling of baked goods coming soon to Café 100. As always, membership is your choice but we hope you will make the choice to become a Members First Plus member with Services. Once you do, you can begin to reap the benefits that come with membership. Show Your Card - And Save!



Arnold Lakeside Center will host a **Members Only Texas Hold 'Em Mini Tournament** every Friday in April. Play will begin at 6 p.m. in The Landing bar. There is no cost to enter but all players must be age 18 or older. Prizes will be awarded each week to 1st, 2nd, and 3rd place finishers. Tables will be created by random draw of the players present at starting time. Players must be present by 6 p.m. to draw tables. No players accepted after 6 p.m. Dinner is available from 5-9 p.m.

First Friday Jam will be April 5 beginning at 6 p.m. Come to play, listen, dance and enjoy. Join in with the band to play an instrument or sing. Or take over and do your own performance. Dinner is available from 5-8 p.m.



The Community Center at Arnold Lakeside Center will host a **Daddy Daughter Dance Sock Hop** April 20 from 6-9 p.m. All ages are invited to attend with their daddy. If daddy is unavailable, another guy may come in his place. Dress will be in the 1950s Sock Hop theme and may vary from poodle skirts to prom gowns and greasers to gents. The menu will follow the 1950s diner and malt shop theme with a

Hours of operation

Arnold Lakeside Center: Catering/Management offices by appointment. Operations Clerk - Tuesday, Thursday and Friday, 7:30 a.m.-4 p.m. Dinner: full menu available - Thursday, 5-8 p.m.; Friday and Saturday, 5-9 p.m. Main Bar - Thursday, 5-8 p.m.; Friday, 4-10 p.m.; and Saturday, 5-10 p.m. Social Hour - Friday, 4-6 p.m. Movie Night - Thursday, 6:30 p.m. **Information, Tickets & Travel (ITT):** Tuesday through Friday, 10 a.m.-3 p.m.
Café 100: Monday through Friday, 6:30 a.m.-1:30 p.m.
Barber Shop: by appointment - Monday, Tuesday, Thursday & Friday, 8 a.m.-4 p.m.
GLC (office located at Arnold Lakeside Center): Monday through Friday, 7 a.m.-3:30 p.m. May vary depending on bookings.
Outdoor Rec: Tuesday through Saturday, 10 a.m.-5 p.m.
Fitness Center: Monday-Friday, 5 a.m.-7:30p.m.; Saturday, 8 a.m.-1 p.m.; Sunday Closed.
Arnold Golf Course: Pro Shop & Driving Range - 8 a.m.-dusk. Driving Range open 24 hours with prepurchased key card. Mulligan's Coffee Bar & Grill - Monday through Friday, 10:30 a.m.-2 p.m.; Saturday and Sunday, 8 a.m.-2 p.m.
Recycling: Monday through Friday, 7 a.m.-4 p.m.
Wingo Inn: Monday through Friday, 7 a.m.-6 p.m.; Saturday and Sunday, 8 a.m.-4 p.m.
Nonappropriated Funds Human Resources: Monday through Friday, 7:30 a.m.-4 p.m.

choice of cheeseburger or chicken strips served with either French fries or onion rings and milkshake or sundae. Dinner will be served from 6-7:30 p.m. and the malt shop will be open from 6:30-8:30 p.m. Each person will receive a ticket upon arrival to redeem at the malt shop for either a milkshake or sundae. Also upon arrival, have your picture taken next to a classic car (weather permitting) and a commemorative photo will be ready for you to take home at the end of the event. In case of inclement weather the photos will be moved indoors. A DJ will provide music from 6-9 p.m. and there will be twist and hula hoop contests. An event keepsake will be presented to all "Dollys" (1950s slang for girl). Cost for the evening is \$22 per couple for members and \$24 per couple for non-members. Additional "Dollys" in the same family will be \$10 extra for members and \$11 extra for nonmembers. RSVP to 454-3350 by April 16.

In honor of **Administrative Professionals' Day**, April 24, Café 100 will be giving a free cupcake with all combo purchases (while supplies last) from 10:30 a.m. to 1:30 p.m. This special is for all customers - not only administrative - so stop by and try a combo and get your free cupcake.

Introduction to Hula Hooping will be held April 27, May 4 and May 11 at 10 a.m. All ages and skill levels are welcome. Single and double hula hooping demonstrations and instruction will be held. The class will be held outside, weather permitting, and each class will be different so you can attend one, two or all three. A limited number of hula hoops will be provided and you may bring your own if you want. There are no sign ups required and no fees involved, so come on out for some fun on a Saturday morning at the ALC.

Last Friday Trivia Contest will be March 29 and April 26. Trivia starts at 6:30 p.m. with questions in random categories. Teams may have up to four people. No cell phones are permitted during the event. Anyone using a phone while a question is underway will be disqualified. There are eight rounds with three questions per round. For rounds 1-4 teams have two, four and six points to wager per round. Rounds 5-8 teams will have four, eight and twelve points to wager per round. Only one point value may be used per question. For example, if you wager four points

The Camp Adventure Program will not be offered this summer because of funding constraints and facility limitations. We apologize for any inconvenience. If you would like a list of other options available in the local community please call 454-3415.

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.

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

Mar. 28 - "Rise of the Guardians," PG (1 hr. 33 min.) starring voice of Hugh Jackman, Alex Baldwin, and Isla Fisher. When the evil spirit Pitch launches an assault on Earth, the Immortal Guardians team up to protect the innocence of children all around the world.

April 4 - "Hotel Transylvania," rated PG (1 hr. 31 min) starring voices of Adam Sandler, Kevin James and Selena Gomez. Dracula, who operates a high-end resort away from the human world, goes into overprotective mode when a boy discovers the resort and falls for the count's teen-aged daughter.

April 11 - "Parental Guidance," PG (1 hr. 45 min.) starring Billy Crystal, Bette Midler, and Marisa Tomei.

Artie and Diane agree to look after their three grandkids when their type-A helicopter parents need to leave town for work. Problems arise when the kids' 21st-century behavior collides with Artie and Diane's old-school methods.

April 18 - "The Hobbit: An Unexpected Journey," PG-13 (2 hr. 49 min.) starring Martin Freeman, Ian McKellen, and Richard Armitage. A younger and more reluctant Hobbit, Bilbo Baggins, sets out on an "unexpected journey" to

the Lonely Mountain with a spirited group of dwarves to reclaim their stolen mountain home from a dragon named Smaug.

April 25 - "The Guilt Trip," PG-13 (1 hr. 35 min.) starring Barbra Streisand and Seth Rogen. As inventor Andy Brewster is about to embark on the road trip of a lifetime, a quick stop at his mom's house turns into an unexpected cross-country voyage with her along for the ride.

Fitness Center
454-6440

Check us out on Facebook! Arnold AFB Services Fitness Center

The Group Class Big 4 challenge may be completed anytime during April. Participate in at least one of all four types of classes offered - Boot Camp, Yoga, Cycling and Interval Training - and earn an incentive prize. Be sure to use the sign in sheet for each class or check in with Joe Watters to get credit for taking the class. Group Classes are for eligible users only.

Group Class Schedule: Boot Camp - Monday, Wednesday and Friday, 6-7 a.m.

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

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

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

Spring Fun Run will be held April 17 beginning at 11 a.m. on the trail behind the Fitness Center. First 25 to sign up receive a t-shirt.

BRIEFS from page 13

**Fitness Center
454-6440**

The **2013 Air Force Marathon, Half Marathon and 10K** will be held Sept. 21. The Start and Finish Lines are at the National Museum of the United States Air Force, 1100 Spaatz Street, Wright-Patterson Air Force Base, Ohio. Start time is 7:25 a.m. for the Wheeled Division Race and 7:30 a.m. for the Full Marathon and 10K. The Half Marathon start time is 8:30 a.m. Registration is underway now with reduced rates through April 1. Rates will increase April 2 – June 1 at which time they will increase again. Registration in 2012 was sold out by the beginning of May. Permissive TDY is authorized for Air Force active duty members under AFI 36-3003 (26 Oct 09) Military Leave Program, Section F, Paragraph 12, Table 7, Rule 30. Be sure to check with your supervisor. Air National Guard or Reserve members must be on active duty status for permissive TDY and must be approved by the Unit Commander. Services will reimburse registration (if made before April 1), lodging (on base only unless non-availability letter provided from lodging), and daily maintenance fee. Reimbursement will be issued after the event upon completion of travel voucher. For questions about Services reimbursement contact the NAF Finance Office at 454-7425. In accordance with Joint Travel Regulations, DoD guidance and AF Instructions, civilians cannot be granted permissive TDY to participate in the Air Force Marathon. For more information please contact HQ AFMC/AISXA at (937)

257-4803 or DSN 787-4803. Complete race details and applications are available at www.usafmarathon.com.

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

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

An **Archery Basics Class** will be held April 6 from 9 a.m. to 12 p.m. at Outdoor Rec for ages 10 and older. Cost is \$5 and deadline to sign up is March 29. There must be at least two to take the course and no more than six. 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.

Outdoor Rec will hold an **outdoor Expo** at building 100 (loading dock side) from 10 a.m. to 2 p.m. April 11. All base employees are encouraged to come by and see some of the items available for rent from Outdoor Rec. Stop by to see what is new for the summer and learn about many of the customer favorites available. Some of the new items include custom made corn hole, tandem kayaks, archery equipment and Frisbee golf. Other items include kayaks, canoes, windsurfer, pontoon, team building kit, inflatables, grills, canopies, fishing poles and more. Brochures with pricing and information on these items as well as camping at FamCamp, Crockett Cove and Dogwood Ridge will also be available. Door prizes will be given throughout the event so be sure to register. You do not have

to be present to win but all entries must be filled out completely to be eligible. Prizes may be picked up at a later date from Outdoor Rec. Hot dogs, chips and beverage will be available free of charge so stop by during lunch and check us out.

Camping for Beginners is an overnight class to be held at the FamCamp beginning 4 p.m. April 26 and going through 11 a.m. April 27. This class is for all ages and cost is \$10 per person. Learn about camp set up, tear down, campfire safety tips, cooking on the fire, tent arrangements, campfire stories, and essentials needed for camping. Dinner will be hamburgers, hot dogs, chips and bottled water. Remember to bring your sleeping bags, blankets, pillows, favorite campfire snacks and any other personal necessities. Deadline to sign up is April 24.

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 Saturday 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 eighteen 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 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.

Outdoor Rec inflatables. There is an assortment of inflatables for almost everyone's needs. We have a huge backyard obstacle challenge measuring 40 feet long by 10 feet wide by 13 feet high, and a double lane jump slide for only \$150 per day. We also have

a giant basketball hoop for \$30 per day and a Rocket Bounce House for \$75 per day. If you need a water slide then our 18 foot Double Drop Wet/Dry slide will be great for any event and is only \$150 per day. Please contact Outdoor Recreation at 454-6084 to make your reservation today!

Teambuilding Facilitation now available through Outdoor Rec. Book your team building event at least two weeks in advance and customize your activities to include leadership, communication, trust, conflict resolution and more. Our kit has 289 activities and can serve up to 120 participants. Large group challenges can accommodate up to 60 people. This equipment must be facilitated by an Outdoor Rec staff member and is not available for rent for private use. Department of Defense organizations may utilize the program for free. All others have the option of half day (4 hours) for \$50 or full day (8 hours) for \$100. Call to find out more information or book your team building event.

RV and Covered Boat Storage slots available. Outdoor Rec has open slots available in the RV storage yard. Each slot is 30 feet long and 10 feet wide and rents for \$25 per month or \$250 per year. The covered boat storage has nine slots open. The boat storage slots are 40 feet long and 12 feet wide and rents for \$45 per month or \$450 per year. Both storage yards require proof of registration and insurance of item placing in storage along with a signed contract based on length of stay. Access to the storage yard will be granted at the time the contract is signed. Call for more details or to reserve your slot.

**Wingo Inn
454-3051**

Check us out on Facebook! Wingo Inn

Reservations for Wingo Inn may be made 120 days in advance. Room rates start at \$53.25 per night. Please call 454-3051 for reservations.

**Gossick Leadership
Center
454-4003**

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

The Gossick Leadership Center (GLC) may be used for events such as meetings, conferences, luncheons, dinners, etc. and is booked through the Services Conference Center Manager (CCM) up to one year in advance. Requests must be made in writing by email to arnold.glc@arnold.af.mil. All event coordinators are required to sign an agreement. Official unit functions are authorized at no charge and are defined as bona fide official meetings or training held as part of the normal duty day. Unofficial and private functions may be held for authorized users at a fee. Community members may host events with the approval of the Services Director for a fee. Outside food and beverages are not allowed. First consideration must be given to Arnold Lakeside Center. In the event they cannot accommodate, an outside source may be utilized with CCM approval. For more information contact the CCM at 931-454-4003.

