

## Grant opportunities lead way to innovation at AEDC

By Raquel March  
ATA Public Affairs

A board of directors with AEDC's prime contractor, ATA, is providing opportunities to ATA employees to propose innovation ideas and receive grants to implement the ideas.

Employees may be awarded a grant if the proposed innovation has the potential to produce significant cost savings, productivity improvements, improved quality of deliverables, or enhanced customer satisfaction promoting new customer business for AEDC.

"The Innovation Grant Program is important because our future will be different from our past; in what work we do and in how we do the work," said Louis Vanacore, an ATA director. "We can continue with our past practices or we can engage and create our future."

The program's evaluation board members recently awarded a \$25,000 grant for the first cycle of the program to the Turbine Engine Component Testbed (TECT) team.

The grant will enable the team to develop laboratory equipment that improves development of new turbine engine test hardware and techniques while giving young engineers hands-on experience.

The team, comprised of Steve Arnold, Rylan Cox and Jonathan Lister – all are engineers in the ATA Integrated Test and Evaluation Aeropropulsion Products



This view of the F-35 Lightning II Joint Strike Fighter shows the lift fan (center) beneath the "57 Chevy Hood" door. This door replaced the bi-fold doors which generated a pressure distortion pattern causing vibrations on the fan blades. (Photo by Lockheed Martin)

Branch, recognized that advanced propulsion systems designs are highly integrated with airframes and will require new test techniques to ensure proper system performance.

"We're used to testing the engine in a straight pipe basically, but they [the advanced propulsion systems] are going to be highly integrated with the airframe so I

think we need to come up with some new ways to test these vehicles," Arnold said.

Arnold recalled how the bi-fold doors for the F-35 Lightning II Joint Strike Fighter lift fan generated a pressure distortion pattern causing significant vibrations on the fan blades and the F-35 team made design changes to the doors without the benefit of ground flight testing. The result

was the development of a modification called the "57 Chevy Hood" design.

Arnold said, "That's [doors and engine] not something we would typically test, so we are trying to get our engineers thinking about how to work with these systems by actually building some of them."

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## ACC, Bowling announce free Job Fair

By Kathy Gattis  
ATA Public Affairs

Arnold Community Council (ACC) and Tennessee Senator Janice Bowling are partnering to host a free, regional job fair July 16 at the Manchester-Coffee County Conference Center.

The event begins at 9 a.m. with the state of Tennessee's Career Coach on hand to assist unemployed or underemployed individuals. The state provides computers so job seekers can update or create resumes on-site.

For those who want to meet prospective employers, exhibits will open at 10 a.m. and continue until 4 p.m.

The event is free for attendees and exhibitors. Registration may be completed at [www.arnoldcommunitycouncil.com](http://www.arnoldcommunitycouncil.com).

The idea for a job fair was developed initially as a way to help ATA employees who were reduced-in-force and furloughed government civilians.

"We began talking with Col. Toth to discuss how Arnold Community Council and local communities could assist Arnold (AEDC) if full sequestration was implemented," ACC President Steve Cope said.

"The government civilian workforce is affected with furloughs of one day per week (a 20 percent reduction in pay) and the ATA workforce was affected in a different way with layoffs (in April)," he said. "We discussed options for assistance and offered to include the communities as a whole since we have others in similar positions."

"Many people in surrounding communities are unemployed or underemployed and can take advantage of the offerings by the local communities that get involved."

Though the impact to AEDC was reduced because of changes in test workload and fewer furlough days, Cope and Bowling say the regional job fair is needed.

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## Fellows Banquet speaker recognizes importance of Fellow's contributions

By Raquel March  
ATA Public Affairs

Arnold Engineering Development Complex (AEDC) Fellows Banquet keynote speaker, retired Brig. Gen. Michael DeLorenzo, came home to AEDC and recalled how he had crossed paths with each Fellow during his Air Force career.

DeLorenzo, a partner with Teaching Science and Technology Incorporated (TSTI), was an officer at the Complex and called AEDC home from 1988-1991.

He speaks of his arrival at the complex, "It was the summer of 1988 when my family and I discovered the Air Force's best kept secret: The Arnold Engineering Development Center [Complex]. Over the next three years I encountered some of the finest senior leaders and professional work force of



Retired Brig. Gen. Michael DeLorenzo speaks to the participants of the Arnold Engineering Development Complex's (AEDC) Fellows Banquet congratulating each Fellow on their Fellow nomination and accomplishments. (Photos by Rick Goodfriend)

See FELLOWS, page 3



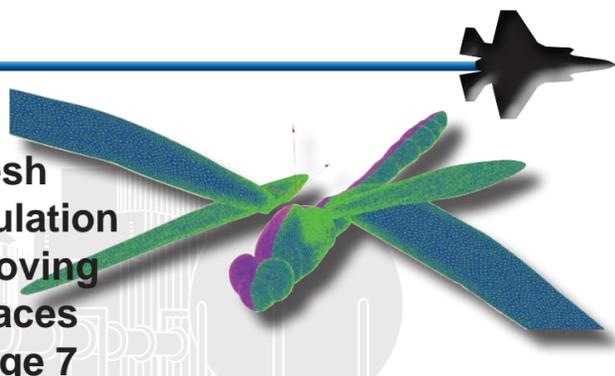
AEDC Fellows (top, l-r) David Beale and Marvin Sellers and AEDC Lifetime Achievement Fellows (bottom, l-r) Ron Polce and retired Maj. Gen. Michael Wiedemer were recently inducted at the AEDC Fellows Banquet.

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## HIGH MACH

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- Excellence in all we do



### Vision

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

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- 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

# Founding fathers' ideals of independence preserved

**Commentary By Gen. Janet Wolfenbarger**  
Commander, Air Force Materiel Command

**WRIGHT-PAT-TERSON AIR FORCE BASE, Ohio** – To mark the July 4th holiday – our nation's 237th birthday – many of us will get together for a cookout or to watch fireworks with friends and family.

While we certainly look forward to those activities, we should also

use the holiday as an opportunity to reflect on exactly why it is we're able to celebrate.

Certainly we owe a great deal to the men who signed the Declaration of Independence; the nation's founders knew their signatures would be their death sentences if the American Revolu-

tion failed. Although they perhaps didn't realize it at the time, the bravery of the Continental Congress proved incredibly significant to future generations.

Since the start of our independence in 1776 through the courageousness of our forefathers, thousands of Americans have given their lives in service to our nation. And millions more have put their lives at risk to pre-

serve our democratic way of life and our individual freedom.

Be proud that – as members of the Air Force Materiel Command team – we are a key part of that service, equipping our nation's warfighters with the resources they need.

Enjoy July 4th festivities, and be safe as you celebrate this special time for remembrance and patriotism. Happy Birthday, America!



**Wolfenbarger**

## Sandlin back from Norway

**Commentary By Greg Sandlin**  
AEDC Contributing Writer

*(Greg Sandlin, an ATA senior engineer recently traveled to Norway as a Rotary Group Study Exchange (GSE) team leader. Sandlin and his team were hosted by Norwegian Rotarians in several cities primarily in the southeastern portion of the country. They visited Oslo, Bergen, Drobak, Eidsvoll, Kolbotn and Nannestad.)*

Participating in this GSE has been one of the greatest experiences of my life. What an amazingly generous people and what a beautiful country! We were treated like ambassadors, which, of course, we were – for Rotary, for our country, state and communities.

Our hosts arranged some outstanding activities and vocational days, maximizing our experiences within their respective towns. Many strong friendships were created and I trust will be continued. A Rotary GSE offers a unique opportunity to openly share vocation, culture and worldview within a context of mutual trust and respect. I regularly found myself in deep conversations with our hosts on complex topics of history, engineering, geopolitics, and philosophy."

Our team of four other non-Rotarian professionals from the Knoxville area gave presentations to multiple Rotary Clubs about themselves, their professions and life in Tennessee.

As one would expect in visiting a northern European country, America has much in common with Norway. In fact, 6.2 million Americans claim direct Norwegian ancestry – there are currently only 4.8 million Norwegians. Between 1860 and 1920, approximately 800,000 Norwegians immigrated to the United States. This was approximately 10 percent of their population at the time. One of those Norwegians was Leif Sverdrup, who came in 1914 at the age of 16. After serving in the U.S. Army during WWI, he returned to Minneapolis to get his engineering degree and later started Sverdrup and Parcel in 1928 with a former college professor. During WW II, Sverdrup went on to serve as Gen. Douglas McArthur's go-to civil engineer in the South Pacific Theater. After the war, Sverdrup and Parcel received the contract to design AEDC, and the rest is history.

Norwegians have contributed greatly to the forming of our national identity and we share many of the same historical influ-



**Greg Sandlin, an ATA senior engineer, partakes in a traditional 12th century Viking meal of salt-cured lamb, no fork, while visiting Norway as a Rotary Group Study Exchange team leader. (Photo provided)**

ences such as Christianity, the Reformation and Enlightenment. On May 17, 1814, their founders used the U.S. Constitution as one of their primary sources in drafting their own Constitution. Norway is a Constitutional Monarchy where the king has much power to do good, but no power to do evil. Fortuitously, we were present to experience May 17th Constitution Day, a day of pronounced celebration. We had special seats right in front of the King's castle in Oslo. We were all Norwegians that day.

We stayed within 45 minutes of the Norwegian Capitol, Oslo, so we were taken to all of their major museums, Parliament, Supreme Court, art exhibits and landmarks. The trip included the "Norway in a Nutshell" tour to Bergen on the west coast by train, train, boat, bus, train and taxi. "It was 14 hours of breathtaking views and inspiring creation.

Communication was not a problem. While most Norwegians seldom speak English, most of their TV and music on the radio are in English – so they hear it all of the time and therefore can understand it fairly well. Older Norwegians did not speak English nearly as well as the younger Norwegians.

## Farewell to a true public servant



**Secretary of the Air Force Michael Donley bids farewell to Airmen while departing from the Pentagon June 20, for the final time as the Air Force secretary. Donley was confirmed as the 22nd secretary of the Air Force Oct. 2, 2008. (U.S. Air Force photo/Michael J. Pausic)**

## 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](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.

## 'S' a symbol for safety

**Commentary By Seth Dean**  
AEDC Contributing Writer

With the Friday release of the new Superman movie titled "Man of Steel," the mythos of superheroes was reexamined. We marvel (pun intended) at their super strength, ability to fly, and other special powers they possess as they bravely save the day. However, a more dangerous, yet less explicit trait common to all superheroes is a willingness to rashly put oneself in harm's way.

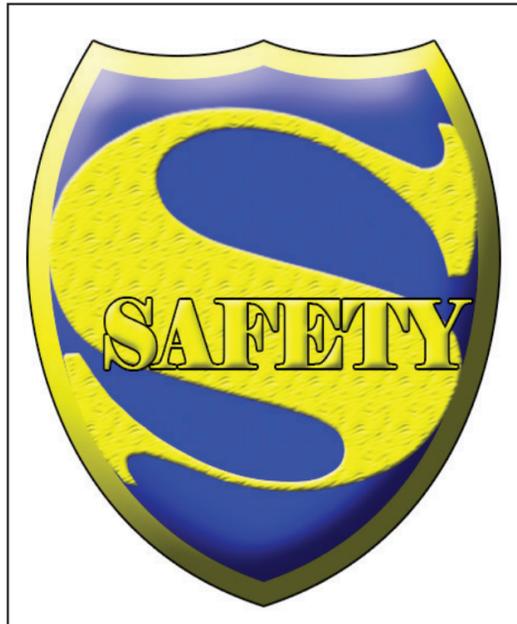
While many of our risks lack the obvious dangers posed by the super villains depicted in these films (Yes, there's a reason Lex Luthor does not properly label Kryptonite with a MSDS for Superman's safety), the consequences for not taking the necessary precautions can be just the same.

A vast majority of us at AEDC are willing to do anything to support the mission, accomplish our goals, and connect with others – a Superman mentality. We, too, want to be heroes. This feeling is especially prevalent when everyone is trying

their best to save money on a limited budget. Usually, this means doing more with less and doing it quicker.

However, simple things like not taking time to stretch after a marathon typing session on the computer; not taking time to put on PPE; and not taking time for water breaks while spending prolonged periods out in the heat can snowball into greater problems such as carpal tunnel syndrome, injury, heat stroke, or death. As with all superheroes, that one lapse, one yawn, one misstep . . . one second of not paying attention or being at our best can be all it takes to put ourselves, our team, and our equipment in harm's way. No amount of capital or time can ever balance that out.

We all need to know our limits and stay alert while remaining very active in our work. Although these heroes have a scripted privilege of being "Super", those of us in the real world would be better served to make that big "S" a symbol for "Safety".



## 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

## Bollard upgrade impacts AEDC traffic at gates

By Charles Cook  
AEDC Contributing Writer

The current bollard system at each gate – Main Gate and Gate 2 – is receiving maintenance and upgrades. This activity will impact traffic flow in and out of the base during the project window. Safety will be paramount, so, AEDC Police are asking base drivers to slow down and comply with the road markings, signs, traffic cones and flagman where posted.

### Main Gate

Traffic will be reduced to two lanes, one inbound and one outbound lane around the bollards; traffic cones will delineate the individual lanes of travel. A flagman will not be present. The work on the bollards at the Main Gate should conclude on July 4.

### Gate Two

On July 5, traffic will be re-

duced to one lane at the bollards with a flagman at each end of the construction area. Traffic cones will delineate the individual lane of travel. This will greatly slow down traffic so it's very important to comply with the markings, signs, traffic cones and the directions of the flagman.

The Emergency Pop-Up Bollard System is an integral part of the Arnold AFB Entry Control and Security process. The system requires periodic inspection and maintenance. We appreciate every employee's patience and cooperation for this very important and critical maintenance effort. It may be necessary to adjust your travel time to work to ensure you meet your commitments for work hours and other appointments. Questions can be referred to the Arnold Police point of contact, Kevin Syler, 454-4497.

## INNOVATION from page 1

This new approach to testing the advanced propulsion systems in regards to integration with the airframes would open up more avenues for testing at AEDC and provide important skills for the Complex's engineers.

The team's idea was presented using a 'Shark Tank' approach. An individual or team presents their innovation idea to a selection committee and sells the value of their proposal to AEDC.

So far the team has developed a blade design and acquired engine hardware. The program encourages military and AF civilian participation. AEDC DOD Engineer Josh Hartman's afterburning engine, the JH-01, will be utilized for the TECT's development process.

They also began planning for engine installation at the University of Tennessee Space Institute (UTSI) utilizing their Non-contact Stress Measurement System (NSMS) Development

Rig to analyze inlet configuration and blade vibration for the team's engine. The team will also enlist guidance from AEDC's Modeling and Simulation group.

Arnold said, "Our legal department is working on a contract to begin working with UTSI and hopefully we will begin testing this month."

The innovation grants program differs from other ATA idea programs like the continuous improvement and suggestion programs in that it seeks greater learning and exploration performed by those proposing the idea.

The program awarded nine grants for the first cycle of proposals. Evaluation and awards for the second cycle is currently underway. The program will continue for eight more cycles in FY2014 and FY2015.

Innovation proposals for the third cycle are due Sept. 15. For more details contact Louis Vanacore at 454-7063.

## ATA joins Facebook and LinkedIn

By Consetta Woosley  
AEDC Contributing Writer

If you haven't visited ATA's website in a while, you might want to check it out. ATA recently completely redesigned their website, [www.aerospacetestingalliance.com](http://www.aerospacetestingalliance.com), to appeal to today's job seekers while also providing a good source of information for current employees.

ATA general manager, Steve Pearson, said, "The ATA website is an important way for ATA to have a company identity separate from the external AEDC/AF website. The site has been designed for co-op and intern students and other prospective employees as well as vendors to utilize when looking for information on ATA, online applications and business contacts."

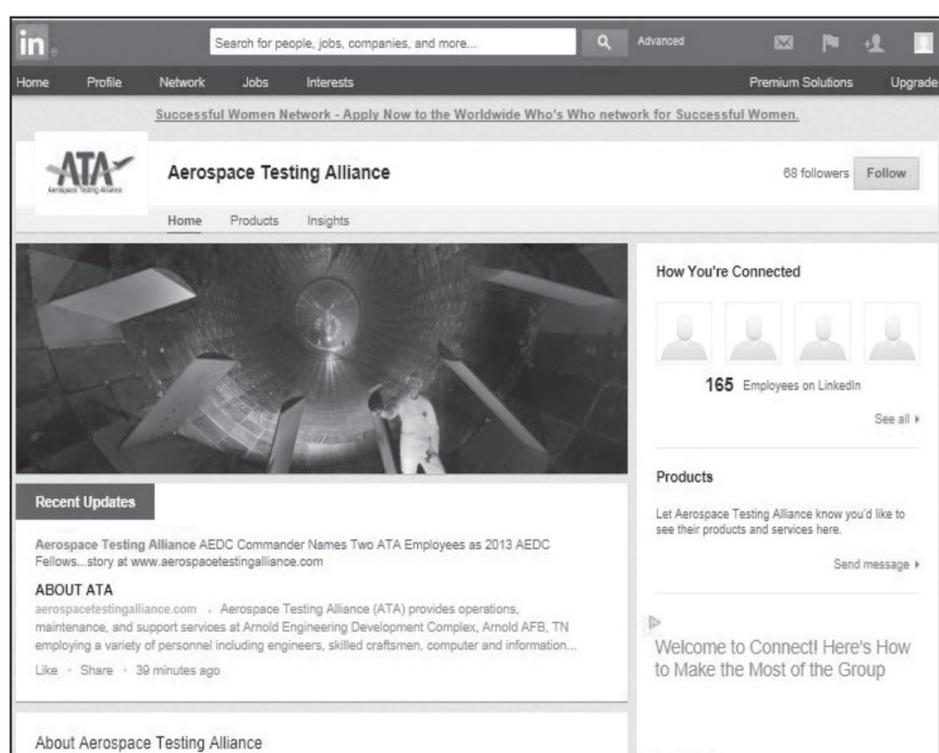
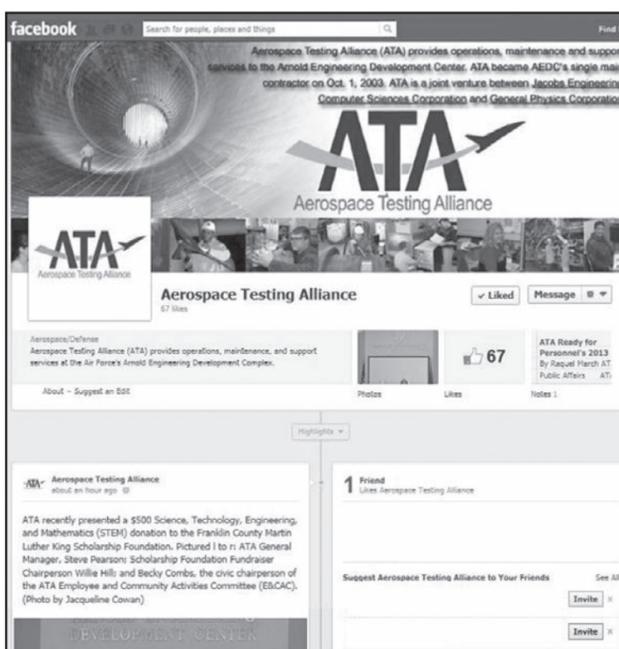
While the new design does cover information for prospective employees, it also includes information pertaining to current employees such as service awards, employee recognitions, scholarship information, award recipients with pictures and in-

formation regarding ATA's local community involvement.

With the Air Force beginning to use social media tools, ATA has also expanded its visibility in the workforce by utilizing two of the world's most popular networking websites – Face-

book and LinkedIn.

ATA's website includes links to ATA's new Facebook and LinkedIn pages. ATA employees who have Facebook or LinkedIn accounts can "friend" or "link" to ATA and stay apprised of news regarding ATA.



## FELLOWS from page 1

my entire 32 year Air Force career," DeLorenzo said.

He congratulated David Beale and Marvin Sellers on their technical contributions in aerospace testing at the Complex. He also congratulated Ron Polce and retired Maj. Gen. Michael Wiedemer on their support of the Complex during their service and after, recognizing the integrity demonstrated by all Fellows.

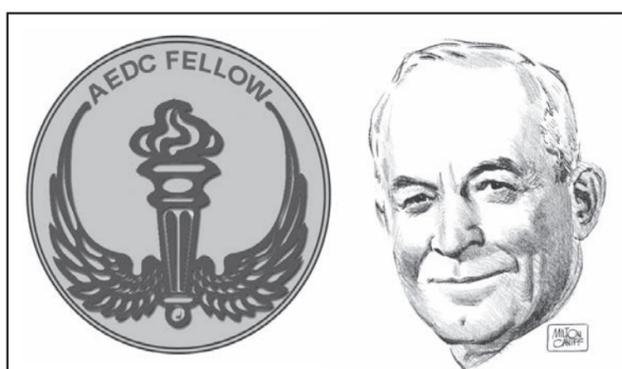
In his speech he emphasized how the nation maintains a lead over the rest of the world in technological development.

"The defense of our nation rests squarely on the resolve of our great people and the great technology developed to support them. AEDC is in the frontline of this battle and I, for one, know we are in great hands with folks like David Beale, Marvin Sellers, Ron Polce and Mike Wiedemer," DeLorenzo said.

Referencing the Mars Curiosity landing, he reminded banquet participants of the complex's role in technology and how today's generation faces different threats than of his generation. He said, "Today our next generation faces an entirely different threat. It could be a truck in front of a government building, a tug boat in a harbor, a pregnant woman at a check point, a plane full of American citizens or a back pack at the Boston Marathon.

"It is like someone has cut the end off a feather pillow and smashed it. The feathers which represent possible threats just go everywhere! How do you defend against something like that? The answer starts with a great people, a great nation, standing firmly on the resolve and the heritage that made them great."

DeLorenzo continued to establish his belief of how this



nation stands against continuing threats.

"Tonight what I am telling you is the United States of America is the greatest nation on the face of this planet no matter what you might hear, and this Nation standing on our foundational culture of freedom, justice and innovation has and will continue to develop the incredible technologies necessary for our defense.

"So the answer to stopping the many facets of terror and tyranny we face today begins with a great nation, our nation, developing great technology and using it wisely," he said.

DeLorenzo spoke of how the backbone of technology development is testing.

He said, "Testing is where the rubber of technology meets the road to success.

"When you fly like you test

and you test like you fly, you win! Hap Arnold knew that in the late forties and nothing has changed today. Testing is what AEDC is all about."

DeLorenzo is a Professor Emeritus at the United States Air Force Academy (USAFA) with over 37 years of Aerospace engineering experience. He was head of the Department of Astronautics at the USAFA for 10 years.

During his 32-year AF career, DeLorenzo was a test engineer, instructor, professor, deputy director of flight dynamics test at AEDC, chief of Wright Laboratory's Advanced Guidance Division and acting chief scientist for Wright Laboratory's Armament Directorate. He also served as Vice Commander, Air Force Research Laboratory, Wright-Patterson AFB, Ohio.

For the entire speech, see [www.arnold.af.mil/library/pioneers.asp](http://www.arnold.af.mil/library/pioneers.asp).

## AFMC priorities, budget effects top executive director's goals

By Monica D. Morales  
AFMC Public Affairs

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio** – Michael Gill began his tenure as Air Force Materiel Command's new executive director June 28 with the long-term objective of providing the right mix of support and leadership to benefit the command and the Air Force.

"I am truly honored to have this opportunity," Gill said. "I look forward to the successes and challenges we will have taking the command – and the Air Force – to that next level of excellence this country expects and deserves."

As the command's executive director, Gill advises the AFMC commander in managing all aspects of the command's mission

to deliver war-winning capabilities, aircraft and weapon systems to America's warfighters. He also advises the AFMC commander on labor union relations and development of the civilian work force.

The top goal, said Gill, is supporting AFMC Commander Gen. Janet Wolfenbarger and, by extension, the priorities of the command. Hand-in-hand with this focus area is tackling the effects felt by a constrained fiscal environment marked by sequestration and workforce furloughs.

"Helping to ensure we continue to provide vital support to our customers and warfighters will be at the forefront of all our efforts," Gill said. "The other part of that challenge will be taking care of our people as we move forward. Sequestration and furloughs will create a great deal of



Gill

stress on our workforce and it will be important for us to help them weather the storm by being good wingmen."

Throughout his career and life, Gill said he has applied the Air Force's core values as a guide to conducting all aspects of business.

"I have learned that if you

keep these core values in mind – integrity, service, excellence – they become a true guide both in your professional and personal life," he said.

Gill entered government service with the Air Force in 1982 under the Mid-level Management Development Program at Robins Air Force Base, Ga., where he served as a contracting officer and contracts manager supporting multiple aircraft and weapon systems.

His succeeding assignments have included varying positions throughout the Air Force. Gill served as the program manager for the Air Force Contracting and Manufacturing Civilian Career Program, Randolph AFB, Texas; as the director of the TRICARE Regional Office South, Office of the Assistant Secretary of Defense for Health Affairs, San

Antonio, Texas; as the director of Contracting, Headquarters Air Force Materiel Command, Wright-Patterson AFB, Ohio; and, as the executive director of the Ogden Air Logistics Center, Hill AFB, Utah.

Prior to his current assignment, he was executive director of the Air Force Life Cycle Management Center at Wright-Patterson. Gill entered the Senior Executive Service in 2001.

This combination of professional experiences, Gill said, has prepared him for the challenges that await in his new assignment as executive director.

"I have had some great experiences in my career," he said. "Each of them has provided me with lessons and growth opportunities – both personally and professionally."

# AFMC executive director to retire after 35 years of service

By **Monica D. Morales**  
AFMC Public Affairs

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio** – After a 35-year career that began as a flight test engineer at Eglin Air Force Base, Fla., Dr. Steve Butler retired from his post as Air Force Materiel Command's executive director June 28 and return once more to Fort Walton Beach.

"I will enjoy spending time with my family in Florida," Butler said. "In the future, I hope to teach, lead local Science, Technology, Engineering and Mathematics activities and even provide some form of technical consulting."

Butler became the com-

mand's most senior civilian leader in September 2008. As the AFMC executive director, he provides counsel on a variety of topics ranging from acquisition to science and engineering, and deals with union issues.

After Butler's first assignment at the 3246th Test Wing at Eglin, he continued to subsequent assignments that ranged from developing precision guided weapons to senior advisory roles in the Office of the Secretary of Defense.

He served as the Deputy Program Director for the F-22 and the Technical Director for most of the Air Force's munitions inventory, including the Joint Direct Attack Munition.

Butler also served in the Air Force Research Laboratory and the 46th Test Wing, where he was known for his hands-on expertise in electro-optical and radar guided weapons.

His most recent honor includes the 2011 Distinguished Executive Presidential Rank Award, an award specifically for Senior Executive Service members who achieve extraordinary results.

"When I got word that I earned this award, I was just surprised and amazed by this recognition," he said.

Excerpts from the interview with Butler follow:

**Q: What would you say**

**have been some of the greatest command accomplishments during your time here as executive director?**

**A:** Some of AFMC's top accomplishments during my tenure include establishing a robust civilian development program to create future Air Force senior leaders; improving relations with the union; increasing our investments in small business; and, implementing a major command reorganization that focused on the life cycle management of programs.

As the command's executive director, I also serve as AFMC's Service Contracting Advocate. This calls for the management

oversight of AFMC's entire services portfolio – that's about 42 percent of the Air Force budget. Establishing this as part of the job ensured bringing consistency and better value to the use of taxpayer dollars.

**Q: What are some of the challenges you've faced during your time here at AFMC?**

**A:** It goes without saying that with every success there's also a challenge. By far one of the biggest obstacles we face right now is transitioning from a growing organization focused on recruiting the best and brightest to a shrinking organization working hard to retain our best and brightest.

**Q: What legacy do you hope to be remembered for as AFMC executive director?**

**A:** My hope is that I've left a lasting impression through the emphasis placed on developing civilians to become senior leaders, and also through the work accomplished to form a solid partnership with the union – with a nod to how this greatly benefits the Air Force. As for my immediate and day-to-day surroundings, I hope to be remembered as a strong technical presence in AFMC's front office.

**Q: If you could pick one**

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**one day during your Air Force career that has been the most memorable or stands out, what would it be and why?**

**A:** While it seems like an obvious answer, I would say the turning point in my career came on Sept. 11, 2001. I remember being at a conference about improving warfighter capabilities and watching coverage of the first plane hitting the World Trade Center. As we were watching, we saw the second plane hit.

We all immediately

knew that this was no accident, and that our lives – and those of the warfighter – were about to change. I think most of America understood in that moment that something different was happening on that day. I had grown accustomed to service in a peacetime Air Force, and the rest of my career has been spent in an Air Force focused on war.

**Q: Is there a parting message that you would like to share with the AFMC workforce?**

**A:** It's been such an

honor to serve in AFMC and work to support the warfighter. The Air Force is a great place to work. The list of positive attributes is long – a skilled workforce, opportunities for varied assignments, work autonomy and the satisfaction that comes with service to a higher calling. The Air Force, and AFMC in particular, places strong emphasis on professionalism and developing its people – and those traits have been evident to me each and every day.

**JOB** from page 1

“There are many civil servants and military contract employees in our communities that have been affected by Department of Defense cuts,” Bowling said. “We want to bring together all the resources available

to help them and other citizens who are unemployed or underemployed get the assistance they need.”

Cope said the ACC appreciates Senator Bowling’s assistance in making this event a reality.

Arnold Community Council was established in 2000 to promote, protect and preserve AEDC and to facilitate interaction and cooperation between the Complex and surrounding communities.

*To advertise in the High Mach, call the Tullahoma News at 455-4545.*





# Mesh Manipulation used for Moving Surfaces at AEDC

By James Masters  
AEDC Contributing Writer

A tool called MeshGrind is in development at the AEDC which employs the Winslow elliptic smoothing equations to perform mesh smoothing.

MeshGrind is an unstructured grid tool that can operate on both 2D and 3D meshes and has been shown to be effective for smoothing unstructured meshes originally generated in Pointwise, a mesh generation tool.

The smoothing equations operate in a computational space based on virtual control volumes (VCVs), which are derived from the original physical mesh. Using conventional virtual control volumes, the Winslow equations have been shown to be ideal for smoothing non-surface nodes in inviscid regions.

Many aerospace-related applications exist which require surfaces to move within a given region. This can include bodies moving relative to each other, as it happens during a store separation, or surfaces actually changing shape, which is what happens with ablation and aeroelasticity.

Design optimization, where many small perturbations are required, is another area where mesh manipulation can be a powerful tool. Whenever a surface moves or changes shape, a new volume mesh with the surface in its new configuration must be generated if a computational fluid dynamics (CFD) analysis of the new configuration is required.

If the surface movement can be easily decoupled from the CFD simulation, each new mesh can be generated with Pointwise. However, it may also be advantageous to employ techniques such as elliptic smoothing to manipulate the existing mesh within an overarching framework to make

the mesh appropriate for the surfaces in their new configuration throughout a CFD simulation.

By introducing ghost points to complete the computational space stencil for surface points, the Winslow equations can also be applied to nodes on a boundary surface. Furthermore, by using iteratively adapted computational spaces that take into account the high aspect ratio of cells in a boundary layer and the general benefit of having near-surface nodes advance away from a surface in an orthogonal fashion, the Winslow equations can be used in boundary layers as well.

One of the areas where surface movement is of paramount importance is in bio-inspired flight where the flapping wing motion must be accounted for. To explore this area, a solid model of a dragonfly was constructed from dragonflies caught in the Arnold wildlife area with wing movement patterns obtained from literature.

A surface mesh (shown on Figure 1) and initial volume mesh was generated in Pointwise and exported in Vgrid format, which is the 3D format currently used by MeshGrind. After the volume mesh was generated with the wings in their initial position, the wings were driven to new positions using a prescribed motion based on the flapping patterns found in literature.

As the surface mesh moved, the elliptic smoothing algorithms in MeshGrind continually drove the volume mesh to new configurations in order to conform to the surface mesh. Examples of the mesh movement are shown in Figure 2 and Figure 3. A new mesh was generated for each one degree of wing oscillation and the mesh movement was automated so a human would not have to be in the loop when looking at a cycle of flapping motion.

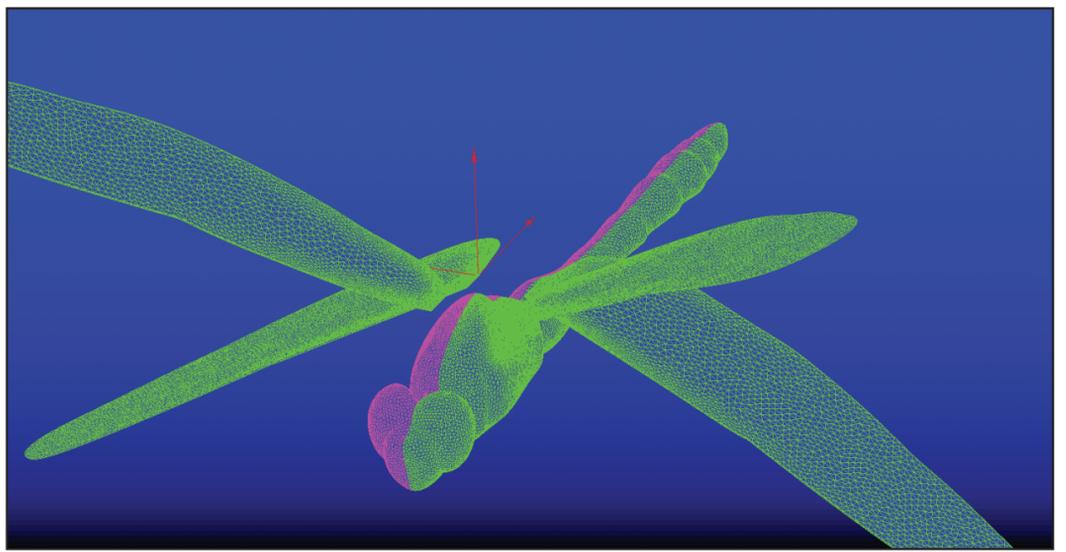


Figure 1 – Dragonfly Surface Mesh

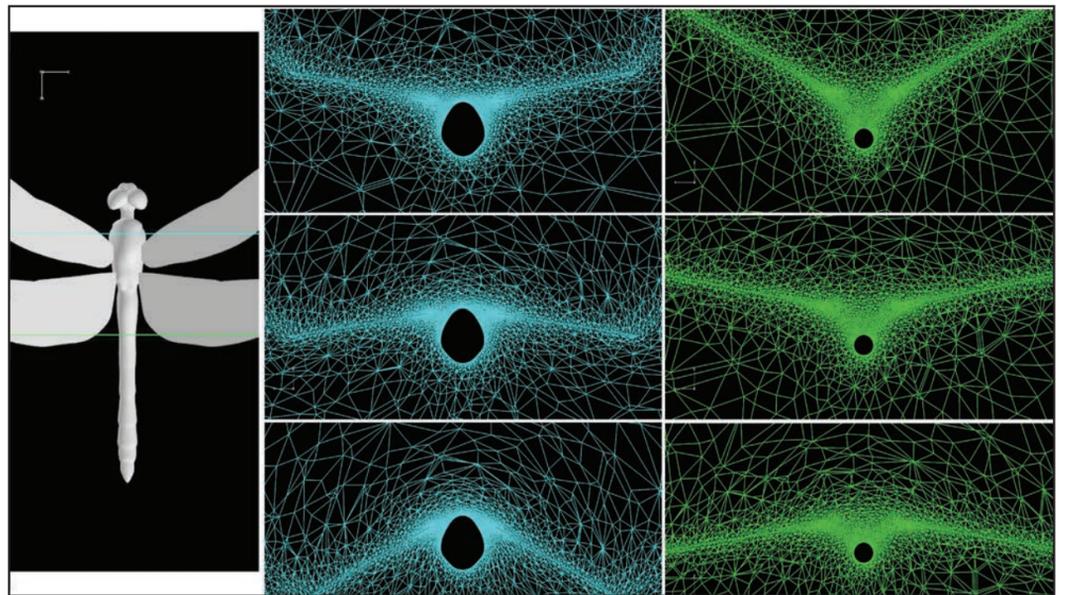


Figure 2 – Mesh Movement during Flapping Movement as Seen From the Front

For certain aspects of relative body motion, such as store separation, elliptic smoothing is not a practical tool because no points are added to the initial mesh so if the distance between two bodies varies greatly, the resulting mesh would be of low quality. However, for many cases where the mesh density in a given area of interest remains relatively stable, elliptic smoothing can be extremely useful. Flapping motion is actually much more extreme than many cases where surface movement is required such as aeroelasticity and ablation or conventional control surface movement such as the movement of a flap or aileron.

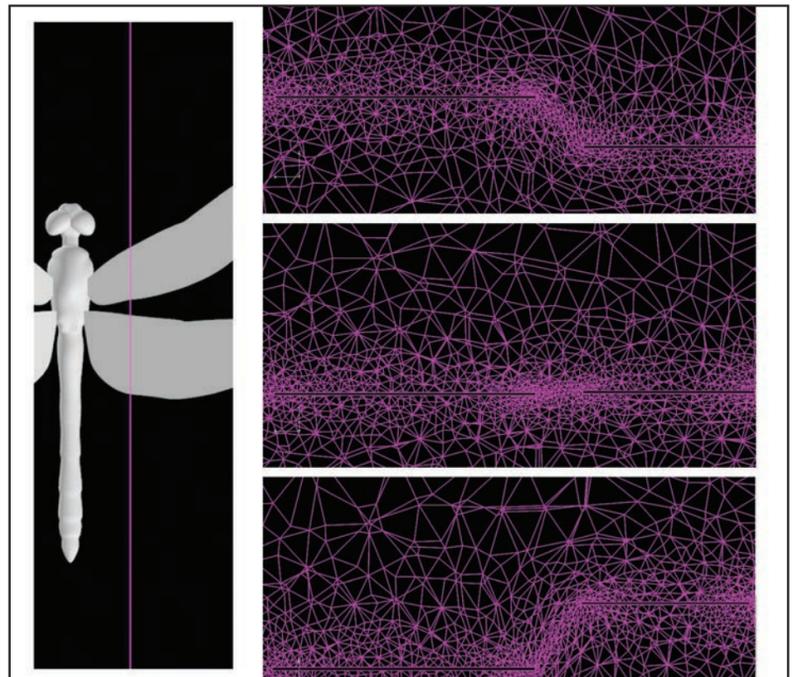
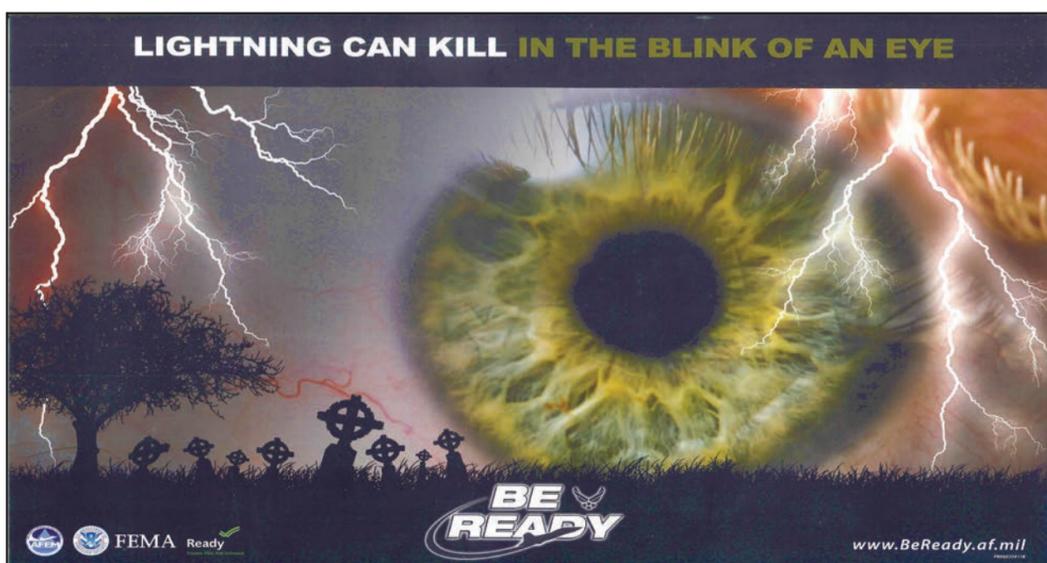


Figure 3 – Mesh Movement during Flapping Movement as Seen From the Side



# Milestones



**Bishop**

**45 YEARS**

Connie Crow, ATA

**35 YEARS**

Richard Bishop, ATA

**30 YEARS**

Vickie Adams, ATA  
David Anderson, ATA  
Lisa Carter, ATA  
Theresa Cates, ATA  
Mark Clark, ATA  
James Fergus, ATA  
Kenneth Gipson, ATA  
Doyle Huffer, ATA  
Keith Marshall, ATA  
David Milleville, ATA  
Robert Quattlebaum, ATA  
Robert Smith, ATA

**25 YEARS**

Gary Cunningham, ATA  
Jimmie Horton, ATA

**20 YEARS**

Michael Davis, ATA

**15 YEARS**

Lloyd Ballard, ATA  
Chris Carr, ATA  
Billy Darnell, ATA  
David Jones, ATA

**10 YEARS**

Kenneth Brown, ATA  
Henry Daniels, AF  
Allen Gardner, ATA  
Roger Gipson, ATA  
Jeff Haley, ATA  
Melissa Ingle, ATA  
Brandon Lucy, AF  
Shelby Moorman, ATA  
James Murr, ATA  
James Simmons, ATA  
Michael Wilson, ATA

**5 YEARS**

Gary Fulmer Jr., ATA  
Jerry Horton Jr., ATA

Larry Swan, ATA  
Kelvin Sweeton, ATA  
Monica Turner, ATA

**OUTBOUND MILITARY**

Capt. Ryan Anderson  
Lt. Col. Scott Dubsy

**INBOUND MILITARY**

2nd Lt. Kyle Monsma  
Lt. Col. Jay Orson  
2nd Lt. Andrew Spurgeon

**RETIREMENTS**

Kenneth Crosslin, ATA  
Tech. Sgt. Brian Fair, AF  
David Parker, ATA

**NEW HIRES**

Walter Bishop IV, ATA  
Christopher Bowman, ATA  
Amber Bunch, NAF  
Kathy Heath, NAF

Caleb Hopkins, NAF  
Ciprian Moraru, AF  
Ronald Stuart, NAF  
Joshua Webb, AF  
Troy Wetherholt, ATA  
Cynthia Young, NAF  
Caleb Zidan, NAF

**PROMOTIONS**

Robert Grimes, ATA  
Drew Miller, to captain  
James Peavy, to colonel

**MY STRENGTH IS FOR DEFENDING**  
**AEDC Victim Advocates Hotline:**  
**(931) 581-7494**  
Preventing Sexual Assault is part of our duty

Arnold  
Community  
Council &  
Tennessee Senator  
Janice Bowling



# JOB ASSISTANCE FAIR

**Tuesday, July 16**  
**9 a.m. - 4 p.m.**

at the  
**Manchester-Coffee County  
Conference Center**  
147 Hospitality Blvd.  
Manchester, TN

**Agenda:**

9 a.m. - 2 p.m.

Career Coach and job preparation assistance

10 a.m. - 4 p.m.

Job fair with expanding companies in the region

**Free Event**

Everyone should register at [www.accjobfair.eventbrite.com](http://www.accjobfair.eventbrite.com)

**Registration ends: July 16, 8 a.m.**

**Questions?**

Email [jobfair13@arnoldcommunitycouncil.com](mailto:jobfair13@arnoldcommunitycouncil.com)

(931) 212-4093, (931) 454-4574 or (931) 454-7723

The Arnold Community Council was established in 2000 to promote, protect and preserve AEDC and to facilitate interaction and cooperation between the complex and surrounding communities. The Council's Board of Directors represents 13 Southern Middle Tennessee and Alabama counties.



## 3, 2, 1 blast-off!

AEDC personnel's children participated in the Complex's first STEM Summer Camp. The three-day camp was conducted by Motlow State Community College Professor Billy Hix who was selected as the TN Science Teacher of the Year for 2012. Children in grades five through eight participated in hands-on demonstrations like a pop bottle rocket build and launch. The camp also included a trip to the Space and Rocket Center in Huntsville, Ala. For more photos see [www.facebook.com/AirForceSTEM](http://www.facebook.com/AirForceSTEM). (Photos by Rick Goodfriend)



## AEDC STEM Summer Camp 2013



## Airmen show 'cool careers' in new ad campaign

By Michela Greco

711th Human Performance Wing Public Affairs

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio (AFNS)** – The Air Force Recruiting Service is currently developing an ad campaign to teach young adults about cool career opportunities in the Air Force community, with the goal to inspire young people to join the Air Force. They also plan to demonstrate that the Air Force offers the same science, technology, engineering, and math (STEM) opportunities as the private sector.

Much of the ad campaign will be housed on an interactive website where users can walk through a scenario about a current industry and

Air Force-wide issue and attack the problem using creative thinking and problem solving skills. The Air Force Research Laboratory (AFRL) will moderate both the submissions and the participation on the site.

To prepare for the website's launch this summer, the Air Force Recruiting Service visited Wright-Patterson Air Force Base in May to take video footage of a few AFRL programs, including the 711th Human Performance Wing's Human Effectiveness Directorate's Calamityville program.

Located in Fairborn at an abandoned cement factory, Calamityville is

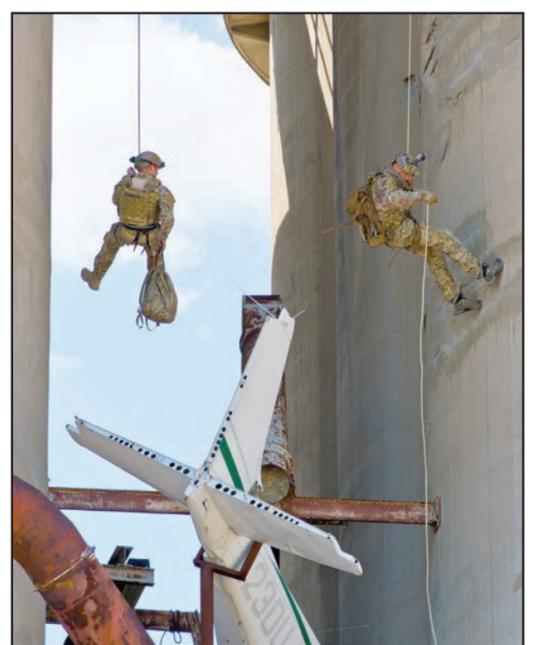
operated in conjunction with Wright State Research Institute and serves as a venue for training, rehearsal, and exercise for a variety of military and civilian responders.

The team accompanied the Air Force Recruiting Service on a site visit. While on location, the videographers captured an Air Force Combat Rescue Officer and a Pararescueman rappelling to a crashed airplane, simulating a current industry and Air Force-wide issue that will be used on the website for users to problem solve.

The team also demonstrated its Battlefield Air Targeting Man-Aided kNowledge (BATMAN) capabilities, which outfit warfighters with everything from chest-

mounted computers to helmet-mounted displays to heated boot insoles. All video footage and photos will be added to the Air Force Recruiting Service website for use with their collaborative scenarios.

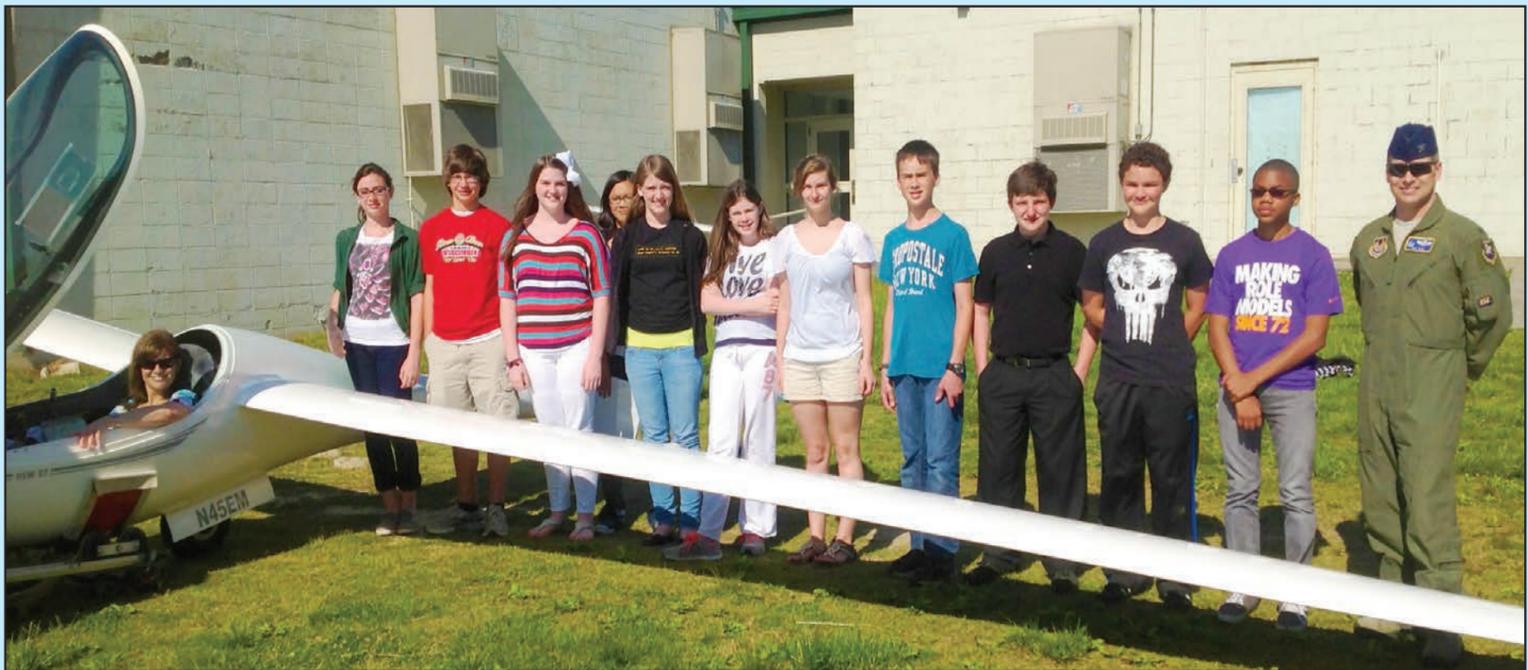
The ad campaign is a great opportunity for AFRL to demonstrate its unique capabilities and, more importantly, to participate in an outlet that reaches young adults. When executed, the campaign will encourage teenagers and students to pursue Air Force STEM careers, an area in which AFRL could greatly benefit. More news will follow when the site launches this summer. Until then, AFRL and 711 HPW look forward to the new opportunities this venture will present.



Maj. David McGraw (left), a Combat Rescue Officer, and Senior Master Sgt. Robert Bean (right), a Pararescueman, rappel down cement towers to a wrecked airplane. (Photo by Rick Eldridge)

**REDUCE, REUSE, RECYCLE**

## Students ready for first flight



AEDC Commander Col. Raymond Toth (right) attended the Science, Technology, Engineering and Mathematics (STEM) Aviation Class graduation at Westwood Elementary School in Manchester and presented certificates and WWII Glider Pilot replica wings. Each of the graduates had the chance to sit in the ASK-27 glider provided by the Eagleville Soaring Club's president, Bob Richards, in anticipation of their upcoming glider flights. Shown left to right is teacher Deb Wimberley, students Lisa Pause, William Anderson, Baileigh Swearington, Michelle Dong, Katie Giltner, Morgan Gilbert, Taylor Urbanek, Tyler York, Michael Harris, Justin Elgouhary and Dashawn Gates. (Photo provided)

## Security forces member uses training, saves lives while deployed

By Tech. Sgt. Steve Lewis  
459th Air Refueling Wing Public Affairs

**JOINT BASE ANDREWS, Md. (AFNS)** – It was the day before the anniversary of Sept. 11 in 2011, when Staff Sgt. Samuel Lerman assumed his post for another 14-hour shift during his six-month deployment to Bagram Air Field, Afghanistan.

On that day, the security forces member was assigned to a quick reaction force. For the Bethesda, Md., native, this meant detecting, deterring and neutralizing threats to the airfield.

"Most of the time there's not much going on," Lerman said. "It's 90 percent boredom, 9 percent really interesting and 1 percent (when) everything goes wrong."

On that September day, this 1 percent happened late in the evening hours, Lerman said.

While on break in a nearby building, Lerman heard rockets scream past overhead, followed by several explosions. The explosions knocked out electricity to his sector and transformed his post into smoky, pitch-black chaos. Without hesitating, he leapt for his gear, slid a bullet into the chamber of his M-4 carbine and ran toward the threat.

Once outside he noticed a checkpoint facility in his search area was severely damaged. As a result of the rocket attack, two Afghan contractors were killed and

many others were badly wounded. The contractors had been working alongside U.S. military forces, assisting the service members with a security detail at the airfield.

Lerman and his fellow security forces Airmen assisted three of the contractors, who were suffering from shrapnel wounds and screaming, by immediately stabilizing the victims on the ground and assessing their injuries.

Within minutes, they performed battlefield triage, placing emphasis on the most critically wounded individuals. Shifting between casualties, Lerman applied techniques learned during self-aid and buddy care training to control bleeding and keep the Afghan contractors alive until they could be transported to the base hospital.

With his individual first aid kit, or IFAK, in hand, Lerman turned his attention to an Afghan worker who had numerous injuries, including stomach and abdominal wounds, and who was losing a critical amount of blood. The injured Afghan was slipping in and out of consciousness. Lerman applied a dressing from his IFAK in an effort to stop additional bleeding.

"(He) was becoming less responsive with every second and his pulse was difficult to feel," he said of the victim. "We had to

move him to the hospital soon."

Since ambulances and medical personnel had already arrived to pick up other casualties from the attack, Lerman had no option but to recruit additional Airmen and find a truck to transport the injured worker to the hospital on their own.

Speeding across the base, Lerman, a U.S. Department of Defense contractor and a fellow security forces Airman made their way to the hospital with the casualty, while Lerman worked desperately to keep him conscious in the bed of truck.

With each passing minute his efforts were met with difficulty, Lerman said.

"At one point (he) stopped moving. I quickly realized that he wasn't breathing any longer and his pulse was gone," Lerman said. "His chest was rock hard from being compressed with blood. We all thought he was going to die."

When the Afghan worker miraculously regained consciousness after their attempts to resuscitate him, Lerman said he took the opportunity to keep him alert by asking what his name was and whether he was married. Lerman learned his name was Safiullah, and did anything to keep the man under his care awake and alive.

The group finally arrived at the hospital. Lerman explained to the surgeons what he knew



Staff Sgt. Samuel Lerman (right) poses for a photo with Safiullah, an Afghan contractor, during a 2011 deployment to Bagram Air Field, Afghanistan. Lerman, a member of the 459th Security Forces Squadron, utilized self-aid and buddy-care training to help save Safiullah's life following a rocket attack. After healing from his wounds, Safiullah returned to work shortly before Lerman completed his Afghanistan tour. (Courtesy photo)

about the injuries Safiullah suffered and the type of medical treatment that was provided.

After transporting the casualty to the hospital, Lerman was placed as a lookout in a tower to continue his mission.

"Every Defender is expected to do this type of work, whether you're deployed or at home station," Lerman said. "As a security forces member, it's your job to be the first ones there when things go wrong. I just happened to be there when something went wrong."

Following the night's incident, Lerman checked in at the base hospital to find out what had happened to the three Afghan

contractors who were admitted, including Safiullah. He discovered all three of the contractors survived. Safiullah had gone through several surgeries and was later sent home.

Master Sgt. James Reynolds, a member of the 103rd Security Forces Squadron, 103rd Airlift Wing, served with Lerman as the sector security forces NCO in charge during his deployment. Reynolds was alongside Lerman the night the rocket attacks injured Safiullah and other base personnel.

"It was my pleasure to work alongside Staff Sgt. Lerman," Reynolds said. "If it had not been for the proper combat life saving

techniques and rapid transport, (Safiullah's) survival would have most certainly been in question."

Lerman later visited the search area where the deadly rocket attack occurred to check on his battlefield patients just before returning home. Much to his surprise, he noticed that Safiullah was on his feet and working.

As a token of his appreciation, Safiullah gave Lerman a locally-made Afghan scarf the day he returned to the area.

"He thanked me over and over again," Lerman said. "Safiullah remembered looking up at me from the back of the pickup truck and me screaming at him over and over again to stay awake."



### Who's Watching?

All violations are reported to the AF Cyber Command and the local base commander

**"Apparent" violations are investigated**

No personal media or devices of any type are allowed to be connected to a government computer – not even if the USB is used for charging the battery. Items prohibited include:

iPods, mp3 players, PDAs, cell phones, Smartphones, Blackberrys, memory sticks, thumb drives, camera flash memory cards







## Air Force establishes F-35 initial operation capability target

WASHINGTON, D.C. (AFNS) – The Air Force announced it expects to declare F-35A Lightning II initial operation capability (IOC) in December 2016. The announcement was included in a joint report detailing service-specific IOC requirements and dates for each of the F-35 variants that was delivered to Congress.

"The Air Force has spent the last six months looking at our initial capability requirements and the expected availability date. This announcement is exciting news for the Air Force," said Secretary of the Air Force Michael Donley. "It highlights to members of Congress, our international partners, and the American public that the program is on track to bring the United States military and our allies this critical capability."

Congress directed the

secretary of the Air Force and secretary of the Navy to provide a report that details the IOC dates, requirements and capabilities for each of the F-35 variants.

The Air Force will achieve IOC when the first operational squadron has 12 or more aircraft and Airmen are trained and equipped to conduct basic close air support, interdiction, and limited suppression and destruction of enemy air defense operations in a contested environment.

"The F-35 is a vital capability that the nation needs to stay ahead of adversary technological gains, and it provides the multi-role capabilities that the anti-access and area denial environment of the future will require," said Air Force Chief of Staff Gen. Mark A. Welsh III. "We're excited that this

program is on the road to success, and we're grateful that our international partners remain as committed to this program as we are."

The F-35 is an unprecedented 5th generation fighter combining stealth technology with fighter speed and agility, fully integrated sensors and network enabled operations, and state-of-the-art avionics.

The world's most advanced fighter has achieved a string of milestones recently as it moves toward IOC. A few of these include the beginning of pilot training at Eglin Air Force Base, Fla., in January; the delivery of the first operational test aircraft to Edwards AFB, Calif., and Nellis AFB, Nev., in March; the first operational pilot aerial refueling in April; and the completion of high angle of attack testing in May.



**Lt. Col. Benjamin Bishop completes preflight checks before his first sortie in an F-35A Lightning II, at Eglin Air Force Base, Fla. Bishop is among the first pilots to begin the official training that began in January. The Air Force announced it expects to declare F-35 Lightning II initial operation capability in December 2016. The announcement was included in a joint report detailing service-specific IOC requirements and dates for each of the F-35 variants that was delivered to Congress. (U.S. Air Force photo/Samuel King Jr.)**



## Arnold Golf Course (GC) 454-GOLF, 454-FOOD

Check us out on Facebook! Arnold AFB Services Golf Course

### 2013 Tournament Schedule

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

The Arnold Tri-City Medal Play Championship will be held July 20 and 21 with an 8 a.m. shotgun start. The field will be flighted depending on the number of participants. Second round play will be flighted based on first round scores. Second round score improvement limit will be 7-15 percent as determined by the Tournament Director. Percentage of improvement limit to be drawn at completion of second round. Prizes will be awarded in each flight. Open to the first 72 players to sign up. Priority for riding carts given as applications are received. Payment is required at time of registration. Deadline for sign up is close of business July 13. Entry fee is \$50 for advanced green fee players and \$70 for others. Cart prices are not included. Price does include one free practice round during the week of July 7-13. For more information call 454-GOLF.

**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 7 a.m. The Pro Shop will have the sausage and biscuits available starting at 7 a.m. Monday through Friday but limited quantities will be available so get them while they last.

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

## Arnold Lakeside Center (ALC) 454-3350

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

### Movie Schedule

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

July 4 - Closed

July 11 - "Admission," rated PG-13 (1 hr. 57 min.) starring Tina Fey and Paul Rudd.

A Princeton admissions officer who is up for a major promotion takes a professional risk after she meets a college-bound alternative school kid who just might be the son she gave up years ago in a secret adoption.

**July 18** - "The Croods," PG (1 hr. 38 min.) starring voices of Nicolas Cage, Emma Stone, and Ryan Reynolds.

After their cave is destroyed, a caveman family must trek through an unfamiliar fantastical world with the help of an inventive boy.

**July 25** - "G.I. Joe: Retaliation," PG-13 (1 hr. 50 min.) starring Dwayne Johnson, Channing Tatum, and Bruce Willis.

The G.I. Joes are not only fighting their mortal enemy Cobra; they are forced to contend with threats from within the government that jeopardize their very existence.

**First Friday Jam** will not be held July 5 due to the holiday weekend. Watch for it to return 6 p.m. Aug. 2. 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.

Arnold Lakeside Center will host a five week **Singles 8-Ball Pool Tournament** in The Landing for ages 18 and older. The tournament will begin July 6 and each night will be double elimination. United States Professional Pool players Association rules will apply. Seeding in the first four tournaments will be by random draw. There will be a continuing points system for the four tournaments with the point totals going toward the final seeding in the championship tournament. Points will be as follows: 1st place - 8 points, 2nd place - 7 points, 3rd - 6 points, 4th - 5 points, 5th - 4 points, 6th - 3 points, 7th - 2 points and 8th - 1 point. All players will be allowed to play in the championship tournament. Players are not required to be at every tournament. Regular tournament games will be played July 6, 27, Aug. 3 and 31. The championship games will be played Sept. 7. Players may bring their own pool cues. Regular games first and second place winners will receive Services Bucks. The championship winner will receive a new pool cue.

Arnold Lakeside Center's new monthly program **Brushes and Bottles** will be held 6-8 p.m. at the GLC July 12. Bring your favorite beverage and get ready to get creative as an instructor will lead you through a canvas painting work of art step-by-step. By the end of the evening you will have your own masterpiece to take home. A different design will be done each month. These painting parties are for all skill levels ages 21 and over with a cost of only \$25 per person. All paint, brushes, aprons, easels, canvas and other necessary materials will be provided. All you have to bring is your beverage of choice. Light snacks will be provided and other beverages will be available for purchase. Deadline to sign up is July 9. Class size is a maximum of fifteen. Call 454-3350 to sign up or for

more information.

A **Cornhole Tournament** will be held 5-10 p.m. July 13 on the patio. This free event is for all ages and will be for teams of two played double elimination. Sign up is required by July 10. You may bring your own bags but they must be roughly 15-16 ounces each. There must be at least 4 to hold the tournament. American Cornhole Organization (ACO) rules apply. Services Bucks will be issued for 1st, 2nd, and 3rd place finishers.

Arnold Lakeside Center **Dart Tournament** continues in The Landing consisting of 301 and Cricket. There will be two single elimination tournaments from 6-9 p.m. each night - July 19, Aug. 23 and Sept. 20 - following American Darts Organization rules. Players may enter both the 301 and Cricket tournaments. There will be a continuing points system with point totals going toward the final seeding for the championship tournament to be held Oct. 18. Points will be as follows: 1st place - 8 points, 2nd place - 7 points, 3rd - 6 points, 4th - 5 points, 5th - 4 points, 6th - 3 points, 7th - 2 points and 8th - 1 point. Services Bucks will be awarded to 1st and 2nd place finishers in each monthly tournament. The championship winners will receive a set of darts. If the same person wins both championships then the two second place finishers will have a play-off to determine the other champion. This event is for ages 18 and up. Darts will be provided or players may bring their own ADO regulations darts.

Arnold Lakeside Center welcomes Amberly Robinson as the instructor for **Ballroom Bootcamp** to be held 5-9 p.m. July 20 and Aug. 17. Amberly brings 20 years of dance experience and expertise. Each class is \$30 per couple and is for all ages. The class begins with basics in ballroom partnering and rhythm from 5-5:15 p.m. Then it is right into Two Step 101 from 5:15-6 p.m. followed by Salsa 101 from 6:15-7 p.m. A recap video will be from 7-7:30 p.m. and social dancing will continue until 9 p.m. Any level of dancer is welcome. The dining room will be open 5-9 p.m. Call 454-3350 to sign up by July 16 or Aug. 13.

**Last Friday Trivia Contest** will be July 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 points value may be used per question. For example, if you wager four points on the first question then you must choose either two or six points for the next question. Whichever value is left must be used for the final question in that round. After the eighth round, teams may wager up to their total points

## 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 5-9 p.m.; Social Hour Friday 4-6 p.m., Movie Night Thursday 6:30 p.m. **Closed July 4.**

**Information, Tickets & Travel (ITT):** Tuesday through Friday 10 a.m. - 3 p.m. **Closed July 4.**

**Café 100:** Monday through Friday 6:30 a.m. - 1:30 p.m. Beginning June 10 closing at 1 p.m. **Closed July 4.**

**Barber Shop:** by appointment - Monday, Tuesday, Thursday & Friday 8 a.m. - 4 p.m. **Closed July 4 & 5.**

**GLC (office located at Arnold Lakeside Center):** Monday through Friday 7:30 a.m. - 4 p.m. May vary depending on bookings. **Closed July 4.**

**Outdoor Rec:** Tuesday through Sunday 8 a.m. - 6 p.m. FamCamp Store Friday through Sunday 12-4 p.m. Also open Monday when in conjunction with a holiday weekend.

**Fitness Center:** Monday-Friday 5 a.m.-7:30p.m.; Saturday 8 a.m.-1 p.m.; Sunday Closed. **Open 8 a.m. - 1 p.m. July 4, no classes**

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

**Recycling:** Monday through Friday 6 a.m. - 2:30 p.m. **Closed July 4.**

**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 July 4.**

earned for the final question. Prizes are awarded for top finishers.

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

### Fitness Center (FC) 454-6440

Check us out on Facebook! Arnold AFB Services Fitness Center

**Hot 250** is back the entire month of July. This event challenges participants to log 250 miles on a bicycle during the month. Use your own bike or check one out from the Fitness Center. Participants completing the challenge will receive an incentive. Contact Joe Watters at the Fitness Center for details.

**The Fitness Center will be open 8 a.m. - 1 p.m. July 4.** There will be no classes.

**Blood Pressure Screening** will be held in Café 100 11 a.m. - 12 p.m. July 10. Not sure what your blood pressure level is or why it matters? The Fitness Center staff will be providing free assessments and 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.

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

Boot Camp - Monday, Wednesday and Friday 6-7 a.m.

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

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

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

### Outdoor Rec (ODR) 454-6084

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

**Kayaking for Beginners Class** will be held at Crockett Cove July 13 and 27 from 9 a.m. to 1 p.m. This is a beginners' introduction to learn about the kayak, equipment, emergencies and wet exits. Fol-

lowing the classroom time, participants will load up equipment and go down to the beach to practice entering, maneuvering, paddling and turning. A wet exit, basic self-rescue and additional strokes will also be practiced. Participants will then take a tour of the lake to practice their newfound skills. The class will be approximately four hours. Make sure you wear appropriate clothing and bring sunblock. This class is for ages ten and up and cost is \$10 per person. There must be at least three to hold the class and maximum class size is six.

**FamCamp outdoor movie nights** will be July 6 and 20. If you are camping over these weekends you can enjoy an outdoor movie for free on Saturday beginning at 7:30 p.m. Bring your chairs or blankets to the open grass area behind the upper bathhouse. Free caramel popcorn will be provided. The movies are as follows:

July 6 - "Lincoln," PG-13, 2 hr. 30 min. As the Civil War rages, America's president struggles with continuing carnage on the battlefield and as he fights with many inside his own cabinet on the decision to emancipate the slaves.

July 20 - "Oz the Great and Powerful," PG, 2 hr. 10 min. A small-time magician is swept away to an enchanted land and is forced into a power struggle between three witches.

**Archery Basics Class** will be held July 6 for all ages. The class costs \$5 and will begin at 9 a.m. There must be at least two to take the course and no more than twelve. 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.

**Camping Guests Lake Tour** is scheduled for 12-2 p.m. July 7 and 21. ODR will be hitting the open lake in the SS Stewart to explore the history of Woods Reservoir. Learn about the islands, buildings, and other sites that make this area unique. The lake tour is \$5 and open to guests staying in FamCamp, Crockett Cove and Dogwood Ridge. The lake tour will depart from the docks of FamCamp at noon.

**Extended Stays available at FamCamp.** The FamCamp is a wooded area off of Northshore Road

on the banks of Woods Reservoir with tent and RV camping. Amenities include bathhouse with shower, barbeque grills, fire rings, lantern hangers, boat launch pad, picnic and beach area, covered pavilion as well as washer/dryer service and boat docking service. There are 18 tent sites and 36 RV sites, 15 of which are pull-through. All RV sites are equipped with 30 and 50 amp 115V service. Daily rates for RV camping are \$20 during the summer and \$15 during the winter (Nov.-Apr.). Did you know that you can stay for up to three months at FamCamp? Monthly rates are \$450 during the summer and \$400 during the winter. Sites 27-36 are designated for extended stays. Extended stays are only allowed in three month increments and there must be a one month gap between stays. Reservations may be made up to 45 days in advance for active duty, National Guard and Reserve military. Up to 40 days in advance for military retirees and up to 30 days for DoD employees. All others may make reservations up to 20 days in advance. Tent camping is available at \$7 daily. Washer/Dryer service is \$2 and boat docking is \$5. A convenience store is open 12-4 p.m. Friday through Sunday May through October and open Mondays if in conjunction with a holiday weekend. Other camping is available at Crockett Cove and Dogwood Ridge. Crockett Cove offers five rustic cabins with heat and air, mini fridge, microwave, front porch swing, grill and picnic table. There is no running water but a bathhouse is on site. The one or two room cabins rent for \$40/\$50 per day during the summer and \$30/\$40 during the winter. Dogwood Ridge consists of six travel trailers with water, sewer, electric and propane complete with deck, picnic table and chairs. The trailers rent for \$40 daily, \$75 for two days or \$200 per week. Extended three month stays are also available at these areas. Call Outdoor Recreation at 454-6084 for more details or to make reservations.

**RV and Covered Boat Storage slots available.** Outdoor Rec has slots available in the RV storage yard. Each slot is 30 ft. long and 10 ft. wide and rents for \$25 per month or \$250 per year. The covered boat storage has 9 slots open. The boat storage slots are 40 ft. long and 12 ft. wide and rents for \$45 per month or

See BRIEFS, page 14

# Air Force to consolidate F-22 depot maintenance at Hill AFB

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio (AFNS)** – Air Force officials announced they are consolidating depot maintenance for the F-22 Raptor at the Ogden Air Logistics Complex at Hill Air Force Base, Utah.

The depot maintenance work is currently split between the Ogden ALC and the Lockheed facility in Palmdale, Calif.

"Palmdale has made a storied contribution to aviation and while this move makes sense, we are certain this important workforce will continue strongly supporting the Air

Force at Palmdale for many years to come," said Lt. Gen. C.D. Moore II, the Air Force Life Cycle Management Center commander.

In today's fiscal environment it is important that every available resource is efficiently managed in order to achieve maximum return on investments.

The Air Force conducted a comprehensive business case analysis and determined a consolidation of all F-22 work at Ogden ALC would reduce costs while realizing greater efficiencies, a minimum cost savings of more than

\$16 million per year.

"The facts show this will be a great efficiency for the F-22 program and the warfighter," Moore said. "It will allow us to more quickly maintain the F-22 keeping this vital front-line fighter ready to meet any challenge, while at the same time allow us to strengthen the robust and capable Palmdale workforce on other critical programs within the local area."

The Air Force has developed a 31-month incremental transition plan to complete the F-22 depot maintenance consolidation activities.



**F-22A Raptor Demonstration Team aircraft maintainers prepare to launch Maj. Paul Moga, the first F-22A Raptor demonstration team pilot, July 13, 2007. Raptors like these will now undergo depot maintenance at the Ogden Air Logistics Complex at Hill Air Force Base, Utah. (U.S. Air Force photo/Senior Airman Christopher L. Ingersoll)**



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Win The War  
Against Waste

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**BEWARE**  
of CREATIVE  
DATA THEFT  
METHODS



## BRIEFS from page 13

### Outdoor Rec (ODR) 454-6084

\$450 per year. Both storage yards require proof of registration and insurance of item placing in storage along with a signed contract based on length of stay. Access to the storage yard will be granted at the time the contract is signed. Call for more details or to reserve your slot.

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

reservation today!

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

**Reservation Policy:** FamCamp, Crockett Cove and Dogwood Ridge reservations may be made 45 days in advance for active duty and reserve military,

40 days for retired military, and 30 days for all other qualified personnel. Boat reservations may be made 15 days in advance for active duty and 10 days for other eligible individuals. All reservations are made through the Outdoor Recreation by stopping by or calling 454-6084.

### Wingo Inn 454-3051

**Check us out on Facebook! 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 (GLC) 454-4003

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

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



