



# HIGH MACH

Serving the World's Premier Flight Simulation Test Center



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## ACC members visit Congress in support of AEDC

By Kathy Gattis  
Aerospace Testing Alliance

Arnold Community Council (ACC) members recently made their annual trip to Washington, D.C., to meet with elected officials and staffers about Arnold Engineering Development Center (AEDC).

Early in the planning for this trip, the group knew they wanted to garner Congressional support for AEDC and establish a caucus. They also wanted to build a relationship with the support groups for Edwards Air Force Base, Calif.

"With the standup of the new Air Force Test Center (AFTC) being headquartered at Edwards AFB, the Arnold Community Council believes it is time to consider strategies that will benefit and protect the test center and its test assets," ACC President, Temple Bowling said.

Earlier this year, Air Force Materiel Command headquarters proposed the new



Arnold Community Council member Mike Williams, left, and ACC President Temple Bowling speak with U.S. Rep. Scott Desjarlais during the ACC's recent visit to Washington, D.C. (Photo provided)

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## Model Shop's assets remain critical to ground testing

By Philip Lorenz III  
Aerospace Testing Alliance

For nearly 60 years, a highly skilled workforce at AEDC's Model Shop has provided critical support to aerospace ground test, investment, plant and maintenance operations with precision machining, fabrication and product installment services.

One of the first buildings constructed after AEDC's dedication in 1951 was the "main" Model Shop. Consolidation took place 30 years later, bringing smaller groups of craft workers and their equipment from other shops on base to the Model Shop.

Currently, the Model Shop's workforce is busy employing capabilities provided by exponential advances in technology to meet the customer's challenging testing requirements in the face of emerging threats.

"The skills and machines in the shop generally support fabrication and modification efforts for our customers in plants and testing," said Walt Bishop, ATA test support branch manager, which includes manufacturing services or the Model Shop. "This includes large investment



James "Red" Harris, an ATA ironworker, welds a connection of the 4T CTS Checkout Stand. (Photo by Rick Goodfriend)

efforts like the 4T Captive Trajectory System (CTS) job in fabrication now to jobs requiring microscopes to work.

"The skill sets we have here are experienced and impressive, including highly skilled CNC [Computer Numeri-

cally Controlled machine] programmers, machinists, boilermakers, ironworkers, pipefitters, sheet metal workers and large cranes and riggers. With the experience and skills we have we can pretty much fabricate anything our customers want

or find someone who can. Every day it amazes me to see what this shop can produce. I'm very proud to be a part of this workforce."

Bishop and Scott Henninger, manufacturing services manager in ATA's support branch, said the ongoing work at the Model Shop is dominantly large-scale fabrication, including model support systems, models, piping systems and plant facility equipment.

"Some of the more recent highly visible jobs we have fabricated include the Tunnel A return-to-service rebuild, 16T seal flap upgrade, the large B-52 model fabrication, and presently the 4T CTS effort," Bishop said. "And these are primarily only machinist efforts. We regularly have many large-scale jobs being worked simultaneously that may not have the visibility, but definitely require the same level of craftsmanship.

"Examples include the C2 test cell cooling piping effort, test stands, [Rocket Development Test Cell] J-6 diffuser relining and the ASTF exhaust side intercooler project."

John Wright is the ATA investment

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## Increased diversity, cyberspace highlight Gen. Hoffman's 42-year career

By Brian Brackens  
AFMC Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – In the past three and a half years, he's overseen the reorganization of the Air Force's most complex and diverse command, managed some of the most drastic budget reductions in the service's history and been a champion of energy conservation.

Gen. Donald Hoffman's tenure as commander of Air Force Materiel Command has been anything but normal, if there is a norm for someone who leads a world-wide organization of 83,000 people.

But after 42 years, Hoffman will relinquish command of AFMC and retire following a June 5 change of command ceremony.

In November 2008, Hoffman assumed the top position for the command responsible for the research and development, acquisition, test and sustainment of the Air Force's current and future weapon systems.



Hoffman

In response to a Department of Defense call for more efficient use of tax dollars, Hoffman presided over the restructure of AFMC – the most radical change to the

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## AFMC command chief reflects on 30-year career 'adventure'

By Jim Palmer  
AFMC Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Air Force Materiel Command's top enlisted sergeant will end his military career June 1, 2012, bringing to a close a career that he says launched a "great adventure" around the world.

Chief Master Sgt. Eric Jaren, AFMC's command chief, will say goodbye during a retirement ceremony at the National Museum of the United States Air Force. Gen. Donald Hoffman, AFMC commander, will preside over the ceremony scheduled to begin at 3 p.m.

Air Force life came as a natural choice to Jaren since his father was part of the enlisted corps serving in the cryptographic career field. During his dad's career, the family moved from base to base, serving in 23 assignments in 23 years in places like Crete, Tripoli, Turkey and Washington state. He found he had an affinity for different cultures, an attribute Jaren thought



Jaren

served as a good foundation for his future Air Force career.

After graduating from high school the

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**HIGH MACH**

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

**Core Values**

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

**Vision**

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

**Core Values**

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

**Senior NCO reflects on dignified transfer mission**

By Master Sgt. Michael Stewart  
*141st Air Refueling Wing Public Affairs*

**FAIRCHILD AIR FORCE BASE, Wash. (AFNS)** – I could hear the voice over the two-way radio call out “wheels rolling.” That was everyone’s cue to get into position and not move. Everyone was at parade rest waiting for the families to arrive.

I was nervous, more nervous than at any point in my military career. My heart was pounding so loud I was sure everyone on the flightline could hear it. I even had to remind myself to breathe. My ears could pick out every little sound, from the faint hum of my camera’s internal motor, to the buzzing of insects.

Why was I so nervous? I knew I would have some nervousness, who wouldn’t? But I had no clue it would be this strong. I had double and triple checked everything on my equipment; I ran the process through my mind a hundred times. The one thing I kept reminding myself of was: “don’t forget to hit the record button.”

I had heard about the dignified transfer mission at Dover Air Force Base, Del., while attending training in Tennessee. I was told it would be one of the most rewarding jobs I could ever do as a combat correspondent and that it touches many people’s lives; but I never dreamed it would change my life, forever.

It had been 16 hours since I arrived at Dover

AFB and already a call had come in informing us that we would be receiving six fallen soldiers later that night. That evening, our public affairs team loaded up our gear and headed to the passenger terminal to wait for the arrival of their remains. It was extremely cold and misty out when the plane finally arrived.

I was surprised to see that it was a commercial airliner and not a military aircraft. When I asked the other videographer why, he explained that the remains of the fallen are returned to Dover AFB by the most expedient means possible, which may mean a direct flight from theater on a civilian aircraft. The mission, he continued, is to return America’s fallen to their loved ones as quickly as possible.

Once the aircraft taxied and parked at the designated spot, we drove out to set up our cameras, one camera on the flightline and one in the transfer vehicle. Once inside the vehicle, I was required to set up and level my tripod; frame and focus my camera; adjust exposure and white balance; and check my back-up recording device, all within five minutes. Even though it was very cold, I could not stop sweating from being so nervous.

When the call came in over the radio for “wheels rolling,” no one was allowed to leave their des-

ignated location or even move. If we forgot an item or had a camera malfunction, we only had access to what was in our camera bag. There was no room for mistakes.

In the distance I could see the flashing lights of the security-police vehicle escorting the families out to the flightline. An Airman with two lighted batons precisely guided the surrey bus transporting the families into final position close to the aircraft. As they drove up, the families could see the flag-draped cases ready to be lowered.

As I waited, I wondered how I would react in their situation. Would I cry? And how would my family and friends respond if they were out in the cold waiting to watch me being transferred to a military vehicle?

After about 10 minutes, I could see out the driver’s-side window some movement along the flightline road, far off in the distance. The carry team and the official party were on their way.

With precision and dignity, they all marched in step down the long road toward the aircraft.

As the carry team marched around the transfer vehicle and positioned themselves at attention facing the families, I finally heard the families. Quietly at first, but very clearly, I heard the cries of a lone woman calling out her Soldier’s name. As she became louder, I started to hear other cries, women and then the children, over and over

they cried “Daddy, Daddy, you promised me.” It was an engulfing wall of grief. I no longer had to wonder how I would respond, I cried. I had to stay focused; this wasn’t about me, this was about the families. “Do what you were trained to do and stay focused,” I repeated to myself.

By the time the official party marched toward the transfer cases and stood for a moment of prayer, I quickly regained my composure. Not only was I responsible for the taping of the event, I also had to help position the transfer cases within the vehicle if they became stuck on the roller tracks.

One by one, each fallen Soldier was placed in the vehicle with the greatest of care. Every detail was thought through; even the order of the cases was done by position of honor or rank. I was never prouder in my career than when I was able to witness this process. We could not bring their Soldier back, but we could show the families through our actions that we appreciated the ultimate sacrifice that was made by their loved one.

After the last case was placed inside the vehicle, the carry team performed an about face and took about five steps out, stopped, and turned around to face their fallen comrades.

The Airman responsible for the closing of the vehicle doors did so in a very slow and deliberate manner, walking the one side of the

double door all the way in and securing, then walking the other side in until both doors were secure.

As the transfer vehicle started to drive away, the commander in charge ordered “present arms,” and every military person on the flightline rendered a three-second salute. The vehicle slowly headed toward the port mortuary with a security-police vehicle as its escort. As I rode in the back of the vehicle, sitting inches from six men I never had the privilege to know, I placed my hand on one of the cases and thanked all of them for their sacrifice. I thanked them not only for me and my wife and children, but for all those who were sleeping soundly that night in our free country and for all future generations.

Those six Soldiers would be the first of 183 men and women from all branches of service that I would thank during my four-month tour at Dover AFB.

So, how did it change my life? The only time we worked was when someone died. It doesn’t get any more sobering than that for me. I hold my family a little tighter when we hug. I don’t sweat the small stuff nearly as much as I used to. I learned to open up with my emotions the entire time I was there; I never kept things in. And, I make sure when I see a veteran at the grocery store or on the street, to go out of my way to really make it clear how much I appreciate them.

**Building lasting partnerships off the beaten path**

By Col. Chad Manske  
*AF Fellow, Council on Foreign Relations*

**NEW YORK (AFNS)** – As the Air Force Fellow at the Council on Foreign Relations (CFR) think tank in New York City this past year, I have had the privilege to share my experiences and tell the Air Force story in a city where military presence lacks. Besides meeting interesting business leaders, facilitating roundtable discussions and writing articles and op-eds, among the most interesting aspects of my fellowship are fulfilling requests to speak to many diverse groups in the city. One of those recent opportunities that piqued my interest came through Air Force Public Affairs channels in New York City in the form of a request to address the Reserve Officers Association of French in the USA ([www.ACREFEU.org](http://www.ACREFEU.org)).

Once I accepted I began preliminary Internet research on the organization. After translating the organization’s web page, I learned that “most members are simply interested in international affairs and defense” and “to build friendships with their comrades of the American Forces.” I then knew exactly what I would say to them!

Before coming to CFR, I was the commander of the 100th Air Refueling Wing at

RAF Mildenhall, England. On the evening of March 18, 2011, I received a call from U.S. Air Forces in Europe commander, Gen. Mark A. Welsh III. The call was an assignment to depart the next morning to survey and stand up the 406th Air Expeditionary Wing at a Western European base that would conduct combat operations that evening over Libya we came to know as Operation Odyssey Dawn.

After accomplishing the tasks General Welsh set out for me for the 406 AEW, I returned to RAF Mildenhall to command my wing and an in-garrison air expeditionary wing structure that encompassed additional geographically separated intelligence, surveillance and reconnaissance assets and organizations for the operation coming under my command.

As Operation Odyssey Dawn evolved, March turned into April, and Operation Odyssey Dawn became the North Atlantic Treaty Organization’s Operation Unified Protector. After a couple of months into the operations, our aircrews were starting to reach maximum flying hour limitations, or “time out,” after flying nine-to-eleven-hour sorties to the Southern

Mediterranean Sea no-fly zone and back.

We had to come up with a way that would not disrupt the operations tempo while reducing flight hours. A plan was developed in which a number of our crews and aircraft would deploy to Istres Air Base in Southern France in which sortie durations would average six hours.

Nearly halving our flight times had a significant and sustainable impact on our ability to support the operation that would continue from mid-May until the end of the operation on October 31. This deployment to France was exactly what I would address with the members of ACREFEU!

That evening with my French counterparts in New York City was a night to remember. I described how our Airmen arrived with few of them speaking English, and how the French bent over backwards to accommodate us. Our Airmen never missed a beat operationally as they stood up in a matter of days.

But, these Airmen did not merely go to France to conduct combat operations. During their precious down time, they built bridges with the community that included attending parades and participating in ceremonies, Rotary functions and other goodwill events. The

French Air Force Academy was headquartered near the base and our Airmen freely conducted static aircraft tours and cultivated close ties and partnerships with their French hosts. All of this I talked about that night in New York City, and with my audience, I realized I was also building similar international partnerships, in an unlikely place.

A week later, I spoke at the Iron Gate Air Force Association Chapter in New York City. During the meeting I was reminded how important these international relationships are and how far they reach.

A representative of ACREFEU, French Air Force Reserve Colonel Frederic Vigneron, presented the Iron Gate Chapter president a letter of appreciation along

with a book, *From the Gulf to Libya - 20 Years of Air Operations*, from his commanding general in Paris. The letter detailed the close relationship between the French and U.S. Air Forces dating back to our unique connection when American pilots flew as volunteers in the World War I Lafayette Escadrille.

This camaraderie continues today with ongoing operations in Afghanistan in support of NATO objectives. I will never forget what our Airmen did in France last year and what they did for us.

It was another milestone of cooperation with a fellow ally. I certainly would not have believed it a year ago if someone told me I would continue to build partnerships off the beaten path!

**Action Line****Team AEDC**

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

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

**Col. Michael Brewer**  
AEDC Commander

**Smoking Policy**

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

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

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

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

2. Supervisors at every level will ensure this policy is followed. Disciplinary action is appropriate for repeated violations.

3. Updates to this policy will be made in the future to further align with Air Force guidelines.

4. This letter supersedes previous letter dated 28 October 2006, subject as above.



# AEDC engineers earn graduate degrees from UTSI

By Philip Lorenz III  
Aerospace Testing Alliance

University of Tennessee Space Institute (UTSI) students who had earned their graduate degrees since summer 2011 were recognized at a reception held in their honor May 7.

This year's guest speaker was Aerospace Testing Alliance (ATA) General Manager Steve Pearson, who used James Madison and Alexander Hamilton to illustrate the importance of furthering one's education.

"I described how two young men of small stature and with little political clout saved the country and built a nation at a time when the established leaders of the day stood on the sidelines and just worried," Pearson said. "It's a story of what dedication, motivation and 'not going to take no for an answer' can do."

Pearson's talk was a historical allegory on how two people without connections asserted

themselves by persuading Gen. George Washington to be the first president.

"Their persistence paid off in the long run," Pearson said. "Adams and Hamilton were important in framing the U.S. Constitution. I expect significant results from these graduate students who worked hard to balance work and school to 'pay it forward.'"

Pearson said the event was well attended by family, friends and members of UTSI.

Graduates present to be acknowledged for earning a Master of Science degree in aerospace engineering were Timothy Barber, Brian Godfrey, Benjamin Klamm, Kevin Holst, Adam Plondke and James Rogers; mechanical engineering were Anthony Harrison and Austin Kimbrell; aviation systems were Jonathan Kolwyck and Samuel Williams; electrical engineering was Bryan Hayes; and industrial engineering was Kaleigh Hatfield. Receiving his Ph.D. in aerospace engineering



UTSI 2012 graduates included, front row, l-r: Joshua Batterson, Samuel Williams, Kaleigh Hatfield, Adam Plondke, James Rogers and Brian Godfrey; and in the back row, l-r: Timothy Barber, Jonathan Kolwyck, Benjamin Klamm, Austin Kimbrell, Anthony Harrison, Kevin Holst and Bryan Hayes. (Photo provided)

was Joshua Batterson.

Bryan Hayes is an ATA electrical engineer and technical lead for the Non-contact Stress Measurement System (NSMS).

Attending graduate school provided the Tullahoma native with a new skill set he could apply directly to his job.

"AEDC benefited from the de-

gree by me applying the advanced knowledge I learned during the masters program to the work I perform here at AEDC," Hayes said. "What I learned in the graduate classes can be directly applied to the signal processing work I perform on a daily basis. The degree [also] benefits me and my family by making me more marketable to

the workforce at large."

Hayes said the connection between work and his family is literally a bloodline.

"My biggest role model and mentor is my dad, Tommy Hayes, who worked out here as an instru-

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## Hands-on learning

ATA Environmental Conservation Biologist John Lamb speaks to a Minds in Motion East Middle School eighth grade tour group about the 20 different species of snakes within Arnold Air Force Base's 40,000 acres. View more photos by scanning the QR code in the photo. (Photo by Rick Goodfriend)



## Free fishing day rodeo set for June 9 at Morris Ferry Dock

By Philip Lorenz III  
Aerospace Testing Alliance

The public is invited to Morris Ferry Dock at Woods Reservoir June 9, to take part in the Tennessee Wildlife Resources Agency's (TWRA) Kids Free Fishing event, hosted by TWRA, AEDC and the Air Force.

The park underwent renovation conducted by TWRA and funded by AEDC and Franklin County. The occasion will mark the beginning of an annual opportunity for young people to enjoy a day of fishing without a license from the facilities.

Todd St. John, Fisheries biologist for TWRA Region 2, has fond childhood memories of fishing at Morris Ferry Dock. He is encouraging parents to take their children to the fishing event.

"My dad used to take me to Woods [when] I was probably 10

years old," he said. "I remember going crappie fishing quite a bit when I was a kid, had a really good time. I remember the Morris Ferry area and some of the history and heritage behind it.

"It was a neat place. It was still kind of rustic looking, but there were a lot of boats and a lot of people fishing and there was the bait store. There were pictures of musky and crappie, bass – a lot of neat things that spark your interest as a kid and made you want to go fishing. That would've been in the mid-1970s."

St. John said restoring Morris Ferry Dock has been a collaborative and worthwhile effort from the project's genesis to when it was completed in 2011.

"Our agency budgeted money, time and expertise for the project, but financial help from AEDC was crucial," St. John said. "With the financial help of the U.S. Air

Force at AEDC and the support of local government officials and a group called 'Friends of Morris Ferry,' the TWRA began work a few years ago to revitalize the area. It was important to bring that back to where future generations could enjoy it and restore it."

Chris Elkins, AEDC's natural resources manager, said Morris Ferry Dock currently has many amenities, including two fishing piers, a fishing platform, a fishing bridge that allows access to the piers that are on opposite banks, picnic tables, benches, a graveled parking area, and a repaired and improved boat ramp where large pontoon boats can safely launch.

St. John said, "In the fall of 2010, they [TWRA's engineering division] re-poured the ramp and now they've provided an Americans with Disabilities Act (ADA) component courtesy pier, a parking area and a sidewalk, a

hard concrete surface sidewalk that goes to the courtesy piers. It is all ADA compliant."

With financial help from AEDC and Franklin County, TWRA crews built the fishing structures and placed fish habitat all around the shorelines adjacent to Morris Ferry.

"There's been a tremendous amount of improvement out there, not only the docks, but also to help the fisheries," Elkins said.

St. John and Elkins are expecting a good turnout June 9, which is National Free Fishing Day across Tennessee.

Channel catfish will be stocked

prior to the event. Fishing equipment and bait will be available to kids that are not equipped. Participants will also be accommodated with food and drinks.

"From 7 a.m. until noon on that day you don't have to have a license to fish," St. John said. "The main goal of these free fishing rodeos is to introduce kids to fishing and provide that common activity, with a parent or grandparent, so that they can go out and have a good time, learn how to fish and hopefully spark an interest that will make them say 'hey Dad, let's go fishing again, that was fun.'"

## Safety officials launch Critical Days of Summer website

By Brian Raphael  
Air Force Safety Center Public Affairs

**KIRTLAND AIR FORCE BASE, N.M. (AFNS)** – May 25 marked the first day of the Critical Days of Summer safety campaign.

The summer is a welcome time of year marked by warmer weather and increased participation in outdoor activities. Unfortunately, it's historically the time of year when the Air Force experiences disproportionately more mishaps and fatalities off duty.

To enhance awareness of risk management decision-making and offset the chance of mishaps, the Air Force Safety Center announces the Critical Days of Summer public website to help everyone enjoy a mishap-free

summer. In addition to tools and features, this one-stop resource contains videos with important messages for all Airmen.

"Remember to dive into your summer off-duty activities with a clear eye toward safely returning to duty," said Bill Parsons, Air Force chief of ground safety.

"Every Airmen is precious and every fatality is one too many!" safety center officials said. "Please enjoy your summer and make the choice to go into the fall with warm memories of the decisions you made and the time you had. Spread the word to prevent mishaps."

Visit the CDS website at [www.afsec.af.mil/criticaldaysofsummer](http://www.afsec.af.mil/criticaldaysofsummer).

## Red Cross blood drive is June 11-15

The American Red Cross will be holding a blood drive at AEDC June 11-15. The blood mobile will be at several locations, so please mark your calendars to donate. Employees may donate at any of the five locations during work hours with approval of the supervisor.

Donation hours each day are 10:30 a.m.-2:30 p.m. All presenting donors will receive a rock-n-roll T-shirt and be eligible to win a Gibson guitar. Before donating blood please follow these helpful hints:

- Get a good night sleep.

DATE	LOCATION
June 11	ETF
June 12	PWT
June 13	A&E
June 14	VKF
June 15	Main Cafeteria

- Eat a meal (not just a snack) to make sure you are not donating on an empty stomach. This will help ensure that you do not get light-headed or pass out.
- Drink plenty of water. Drinking 20-30 minutes prior to your donation helps ensure you have

a pleasant experience.

If you have any further questions, please call Leslie Myers BSN, RN at the Dispensary, extension 5387 or 5385.

To be eligible to donate you must be healthy, at least 17 years old, weigh at least 110 pounds, and not have given whole blood in the past 56 days or a double red cell in the last 112 days. There is no upper age limit. You may not give blood if you have received any notification asking you not to donate.

Please bring ID or your donor card.



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organization, AFTC, placing AEDC and Eglin AFB under Edwards AFB leadership effective Oct. 1.

“We want to join with the Edwards community support groups, Edwards AFB Civ-Mil and Antelope Valley Board of Trade, to mutually support the new center,” Bowling continued. “By advocating for the AFTC, the test organizations at Edwards, Eglin and Arnold would all benefit.”

One of the key items on the trip agenda was working with Congressional delegations to create a Defense Test and Training Range Caucus, similar to the efforts of logistic depots across the three bases.

Bowling said the purpose of a caucus would be to preserve and protect critical national test assets for the Air Force, Department of Defense and the nation. As a former director of contracting at AEDC, Bowling understands why AEDC is so important to national defense.

“It’s vital to the country for AEDC to retain its ability and capacity to reduce the cost of developing military and commercial aerospace systems. Key to our nation’s defense as well is retaining

national test infrastructure and technical staff,” he said. “We must ensure we have future test infrastructure and will be able to support continued American aerospace superiority.”

The ACC team consisted of community leaders and citizens who paid their own expenses for this trip to the nation’s capital to promote AEDC. They visited 20 Congressional offices. The agenda included ways to decrease costs of developing the nation’s most critical aerospace systems; ideas for returning high technology jobs to the United States; improving international competitiveness to the U.S. aerospace service sector; embracing necessary future consolidations and helping the U.S. Congress win support for better and less expensive ways of doing business in the federal sector.

Former AEDC commander and previous ACC president, retired Gen. Mike Wiedemer, said AEDC can be used to make new military systems more cost-effective.

“I know AEDC can be used to help reduce the nation’s debt by further decreasing the development costs of commercial and

military systems,” he said. “AEDC is a one-stop center for ground development test and can be used more often to improve the nation’s balance of trade for the aerospace industry. We want elected officials to remember AEDC as the premier one-stop center for aerospace development test and if there is a future BRAC, consider locating additional missions here.”

A highlight of the trip is always the ACC Breakfast for elected officials and staffers. This year the event was hosted by Congressman Scott DesJarlais and Congressman Diane Black, the Antelope Valley Board of Trade, the Arnold Community Council and Edwards AFB Civ-Mil Support Group. Senator Bob Corker was an Honorary Host.

Mark Williams, ACC legislative affairs chair and Mike Niederhauser, ACC community relations and public service chair, did much of the planning for the trip, including the breakfast.

“We obviously set up visits with the Tennessee, Maryland and California delegations, said Williams, “but we also wanted to try something new this year and target the Armed Ser-



**Mike Niederhauser, ACC community relations and public service chair, introduces 6th District Congressman Diane Black, left, to Cathy Hart, director-at-large of the Antelope Valley Board of Trade. To see more pictures from the trip, scan the QR code. (Photo provided)**

vices Committee members to make sure they are all aware of the important work being done at AEDC.”

ATA General Manager Steve Pearson said he was impressed by the ACC’s commitment to AEDC.

“They took their time and devoted personal resources to the effort to support AEDC, and I greatly appreciate that,” Pearson said. “It is heartwarming to know there are folks who see

the past, current and future greatness of AEDC. The people making this trip are as impressive as the people we visited in D.C.”

“I believe this trip was one of the most successful the ACC has made,” said ACC President Temple Bowling. “The idea of a Defense Test and Training Range Caucus was well received by the Congressional delegations. Just as important was our meeting with

the folks from Edwards’s civilian communities. We have begun building an excellent relationship and look forward to working together to support both AEDC and Edwards.”

This is the eighth year for the ACC trip to visit Congress. To learn more about the ACC or to view the complete briefing presented to Congressional officials, go to [www.arnoldcommunitycouncil.com](http://www.arnoldcommunitycouncil.com).

**HOFFMAN from page 1**

organization in its 20-year history. Upon completion of the reorganization, AFMC will shrink from 12 centers to five, cutting overhead and eliminating layers of management while standardizing processes across the command. The planned reorganization will reach initial operation capability in October 2012 and become fully operational during the summer of 2013.

In a recent interview, Hoffman reflected on his

time spent in the Air Force, during which he witnessed much change.

**Q:** How does the Air Force of today compare to the one you entered in 1970?

**A:** A major difference has been the acceptance of diversity on many fronts. When I first arrived at the cadet area of the Air Force Academy in 1970, there was a huge sign that said “Bring me men.” So to be

succeeded in command by

the first female four star of the Air Force is truly a legacy of this time period.

Diversity is important so that all members of the Air Force, no matter their background, beliefs or gender can feel that they are part of a team that embraces their strengths.

**Q:** What are some of the significant events that occurred during your career?

**A:** We fought and won the Cold War, we leveraged technology in how

we fight, and we introduced the notion of cyber. The pervasiveness of computers in our lives and in war fighting has been significant throughout my career.

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

**A:** One of the challenges was the two reorganizations we’ve gone through. By nature I am not a reorganizer. I usually accept organizations that I’m part of for what they are and optimize within the system that exists. But we were faced with circumstances that forced change, and we had to adapt.

**Q:** What will you miss most about the Air Force?

**A:** I will miss the people and the ability to be able to work in an organization

where you start off with the premise that you immediately trust each other. You see someone in the Air Force and unless proven otherwise, you immediately trust them. Hypothetically, if I were at a grocery store with my kids and one of them jumped out of a cart and hit themselves on the head and had to be rushed to the hospital, and I didn’t have time to worry about both children but I saw a staff sergeant in uniform shopping – I would have no reservations taking that child and giving it to that staff sergeant and saying, “Watch my child, I’m going to the hospital.” I would know that that person would care for that child and repatriate them. You wouldn’t do that to anybody in a grocery store.

But I identified that person as a member of the Air Force who is totally reliable – someone I can trust sight unseen, without even knowing them. That’s what I will miss. That sense of community and mutual trust.

**Q:** Is there anything you would like to add?

**A:** It has been my good fortune to be part of the best Air Force in the world for 42 years. It was the best Air Force in the world when I joined it. It’s smaller now, its missions have changed somewhat now, but it is still the best Air Force in the world, and I have total confidence that those that follow me will keep it the best Air Force in the world. I lose no sleep whatsoever on the quality of leadership that the Air Force has today and will continue to have.

**UTSI from page 3**

ment technician for almost 40 years,” Bryan said. “He got me involved in electronics early and helped me during my undergraduate degree when I didn’t understand certain aspects of electronics. The engineer who mentored me and got me started in NSMS was Bob Fugerer when I hired in back in 1999.

“Little did I know that he would leave in 2001, but he exposed me to software, hardware design and printed circuit board layout for the NSMS project. That prepared me to be the technical lead for NSMS.”

Working at AEDC has provided Hayes with some unique opportunities.

“When I came to work at AEDC and they offered to pay for graduate classes at UTSI, I couldn’t refuse,” he said. “UTSI is a great place to go to school and I enjoyed the professors. I’m a big Volunteers fan in all sports and it felt really good to attend the graduate hooding ceremony at Thompson-Boling Arena and be a part of the UT family.”

Kevin Holst is an ATA Aeropropulsion Product Branch test and evaluation analysis engineer who supports the data validation and analysis tasks for engine testing.

“I’ve been at AEDC for just under five years,” said

the Bartlett, Tenn., native. “The coursework I completed has helped give me a broad base of knowledge from which to draw from for my work at AEDC. Working on a thesis helped me to apply that academic knowledge to a slightly more real-world example and produce a product from it.”

Although pleased with acquiring the degree, he acknowledged that more remains to be done.

“My intent is for this degree to be a milestone and not a stopping point,” Holst said. “Although I just got my degree, I’m looking forward to the next challenge.”

The greatest hurdle he faced was completing his thesis, not due to its difficulty, “just making time for it.”

Holst said Rob McAmis and Andrew Jackson have been his primary role models and mentors since he joined AEDC’s workforce.

Kaleigh Hatfield, continuous improvement lead for the asset management process with ATA’s Test Assets and Support Branch, began attending UTSI one semester after earning her bachelor’s degree in industrial and systems engineering at Tennessee Technological University.

“I wanted to go ahead and start grad school while everything was still fresh

and while I was used to attending school,” said the Lynchburg native. “I don’t have any children, so I figured I would have the freest time in my life to pursue an advanced degree.”

Like her colleagues who graduated from UTSI this summer, she said everyone involved comes out ahead from an advanced degree.

“I benefit by expanding my knowledge and experience, my managers benefit because now I am better equipped to serve in more job functions,” she said. “And ATA/AEDC benefits as a whole from my implementing what I learned through my advanced degree.”

Hatfield spoke about the more immediate impact of her graduate degree.

“I have a better understanding of how to manage and solve problems than I did before,” she said. “I am very relieved and excited to have this degree. I am also proud to have an advanced degree.”

Like her coworkers and fellow grad students, the biggest challenge was balancing work, school and her personal life while trying to excel in all.

She credits Christopher Mears, Walt Bishop and David Hurst as being her mentors and role models at AEDC.

## *Bonnaroo community relations director to speak at PMI luncheon*

The director of Bonnaroo's community relations is the guest speaker for the Southern Middle Tennessee Branch of the Project Management Institute's Chattanooga Chapter luncheon June 12.

Jeff Cuellar will give a

presentation titled "Building a City and a Festival" in room H-111 at the University of Tennessee Space Institute.

Cuellar is the Director of Connectivity for AC Entertainment, Director of Community Relations

for the Bonnaroo Music Festival and Director of Marketing and Business Development for Great Stage Park.

He is a graduate of the University of Tennessee Knoxville with a major in public relations, business

and Spanish.

"Join us to learn how an organization plans to build a city and a festival that spans only a few days and accommodates tens of thousands of people," said JonPaul Wallace, vice president of Southern

Middle Tennessee Branch of the PMI Chattanooga Chapter.

The luncheon is 11 a.m.-12:30 p.m., and there will be door prizes.

The cost to attend is \$10 for PMI members and \$15 for nonmembers. Payment

is due June 6, or if payment is mailed, it must be post-marked by June 4.

Payment may be made to Doug Brown (454-5407), Peggy Glass (454-7475), Susan Rymer (454-7683) or JonPaul Wallace (454-4904).





**JAREN** from page 1

chief and two of his friends joined the Air Force together.

"I had an understanding of what the Air Force culture was," he said. "After high school two of my best friends and I enlisted together. We served together at Travis Air Force Base. After a few years we were assigned to different locations, but we still keep in touch to this day."

Jaren started his career as an aircraft maintenance technician and progressed to a flight line supervisor

in a C-5/141 squadron. In November 2004 he was promoted to chief master sergeant while serving as the superintendent of the 494th aircraft maintenance unit at Lakenheath, United Kingdom. In December 2009 he was selected to become the command chief for the 72nd Air Base wing at Tinker Air Force Base, Okla. Having accepted the position at Tinker, another opportunity presented itself.

"Out of the blue, I received a telephone call

from General Hoffman's office that he wanted to interview me for the command chief's position here at AFMC," he said. "It was an exciting time. I did a video interview, and General Hoffman selected me for the position here in the headquarters."

Jaren noted there have been many changes to the Air Force during his career but the changes with the most impact were the emergence of the digital world and the enlisted force becoming more professional.

"All of the processes have changed," Jaren said. "When I entered the Air Force we used punch cards, we didn't have computers in our offices. In the maintenance world, we did everything by written reports. Airmen today use laptops that enhance their abilities in ways we would have never imagined."

Secondly, I have seen our enlisted force go from blue collar to a professional force – professional education, professional technical training. Professional military education is the key; it has shaped our force in ways you can't imagine. The future of our enlisted force is bright and we will be called on to take more and more professional responsibilities."

After 30 years of Air Force experience, Chief Jaren offered this advice for young Airmen.

"First, you can't see far-

ther down the road than you have traveled yourself, and do your best at whatever task is given you. How you tackle those duties will say so much about you," he said. "Be a part of the team because the team is greater than the individual. Finally, have the right attitude; attitude sets the tone for an organization and everyone around you. If you can do those three things, you will have a successful career."

Jaren feels that professional military education in this new Air Force is paramount, and said that education equals mission success. He would like to see PME undertaken as an Airman progresses through the ranks earlier in his or her career.

"Our enlisted core is so professional and our jobs are so technical, that we have to have the education and the training to succeed," he said. "We are going to

have a smaller and more agile force, and that force is going to need the education and the training to accomplish the mission. The key to becoming more effective is professional military education, and in the future we need to align the education closer with each grade."

As Jaren prepares to close the door on a very distinguished career, he shared a final thought for the men and women of AFMC.

"Throughout a long career, I've learned it doesn't matter if you are enlisted, officer or civilian, and that being an Airman comes from the heart. I'm very proud to be associated with the professionals in the Air Force Materiel Command, and I leave knowing that younger, brighter more capable professionals are right behind me. I have great satisfaction knowing the future of the Air Force is secure."

# Milestones



**Gail Bryant**  
35 years

## 35 YEARS

James Rector Jr., ATA

## 30 YEARS

Gayle Wasson, ATA  
Benjamin Loveless, ATA  
Ronald Reagan, ATA  
Donna Kennedy, ATA  
Glenn Garrard, ATA  
James Routh, ATA  
Tony Acklen, ATA  
Martha Casey, ATA  
Howard Nichols Jr., ATA  
Katie Tedford, AF  
Joe Warren, AF  
Randall Quinn, AF

## 25 YEARS

James Bramblett, ATA  
Michael Davenport, ATA  
Douglas Ratliff, ATA  
Danny Cunningham, ATA  
Howard Frederick, ATA  
Roger Owen, ATA  
Dale Swant, ATA

## 20 YEARS

Biff Butler, ATA  
William Miller, ATA  
Frankie Beavers, ATA



**Virginia Conry**  
35 years

Jason Blackwell, ATA  
Ronnie Glasgow, ATA  
James Hicks, ATA  
Jason Kelley, ATA  
William Binkley Jr., ATA  
Kristopher Hughes, AF

## 15 YEARS

Robert Blackburn, ATA  
Michael Wrenn, ATA  
Terry Hill, ATA  
Tamalena Breiding, ATA  
Elden Yoder, ATA  
Kenneth Tatum, ATA  
Aldenna Franklin, Premier

## 10 YEARS

Joshua Jones, ATA  
Daniel Crews, ATA  
Dustin Crider, ATA  
John Richardson, ATA

## 5 YEARS

Nathan Colvin, ATA  
Cindy Dixon, ATA  
Mark Moore, ATA  
Colleen Tighe, ATA  
Michael Hogwood, ATA  
Omra Schultz, ATA



**Mickey Weaver**  
35 years

**INBOUND MILITARY**  
1st Lt. Nicholas Bauer, AF  
Lt.Col. Teresa Suh, AF

## OUTBOUND MILITARY

Capt. Jeffery Hartberger, AF

## RETIREMENTS

Robert Newall, ATA  
James Phillips, ATA  
Earnest Nart, ATA  
Johnny Jackson, ATA

## NEW HIRES

Jere Matty, AF  
Jason Lusk, ATA  
Ray Uselton, ATA  
Trenton Bussell, ATA  
Nathan Dotson, ATA  
Jeff Farris, ATA  
Keith Gipson, ATA  
Michael Slack, ATA  
Christopher Stevens, ATA

## PROMOTIONS

Beau Campbell, ATA  
Mark Sissom, ATA  
Summer Blasingame, ATA  
James Wisser, ATA

## Speckles completes the last UAV flight in Iraq

By Chandra Lloyd  
88th Air Base Wing Public Affairs

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio** – A 38-pound unmanned aerial vehicle (UAV) with a 10-foot wing span takes center stage as being the last UAV to take off and land in Iraq.

Dubbed Speckles, the unmanned aerial vehicle (UAV) system was a collaboration of three tiers, funded by Joint Improvised Explosive Device Defeat Organization (JIEDDO), built by BAE Systems in Tucson, Ariz. and program managed by the Air Force Research Laboratory in 2009. Prior to July 30, 2011, the JIEDDO Director, Lt. Gen. Michael Barbero, received a request

from the Army to provide Intelligence, Surveillance and Reconnaissance (ISR) support before troop withdrawal.

"JIEDDO's job is to help our forces find ways to defeat improvised explosive devices being employed by enemy forces," said Vince Parisi, chief for the Center for Rapid Product Development Air Force Research Laboratory. "AFRL is helping JIEDDO find solutions to this important need."

Speckles is equipped with infrared sensors capable of assisting troops with patrol operations and route clearances.

Seventy-two days after

JIEDDO requested AFRL's help, the system was fully operational in Iraq with a contractor flight crew of three, and an AFRL Liaison Officer (LNO).

"Usually this UAV system is manned with a flight crew of three and one Air Force Liaison Officer, but due to the impending end of the war in Iraq the base was required to reduce personnel to only mission essential levels," said Brendon Poland, LNO and Speckles crew member. "For this particular system we were only allowed three personnel on base, so I operated both in the capacity of the LNO and a crew member."

See **SPECKLES**, page 8



## SHOP from page 1

project manager for the CTS upgrade for 4T.

“The 4T Captive Trajectory Support (CTS) system is a computer-controlled six degree of freedom mechanical system used to investigate the separation characteristics of air-launched stores from parent test articles in [AEDC’s] Aerodynamic Wind Tunnel 4T,” he said. “It is the mechanism that permits acquisition of store separation data for the various aircraft/store combinations in the U.S. and allies’ military inventory.”

Wright had praise for the craft workforce handling the fabrication and machining of the components for the 4T CST upgrade.

“The Model Shop team’s experience fabricating similar complex components has been invaluable to the success of the project,” he said. “They have been able to review drawings and offer suggestions on ways to make fabrication more efficient and cost effective. The quality of their work is outstanding.”

Wright added, “The new Tunnel 4T CTS will be able to carry higher loads, have increased six-degree-of-freedom travel range, more accurate model positioning, position faster, be calibrated much quicker and a much reduced maintenance requirement.”

Peter Macaluso, AEDC’s Air Force project manager for the wind tunnels, is the customer who tasked the Model Shop with modifying a 10 percent-scale BLU-109 Joint Direct Attack Munition (JDAM) model for a recent test in the Propulsion Wind Tunnel’s 16T.

The test customers’ requirement was for a one-time use of the model, but Macaluso said it could see future use.

“Our customer’s needs change frequently and sometimes at short notice,” he said. “For that purpose we maintain a large inventory of models, mostly at 5 and 10 percent scale which can be used in the 16T and

4T tunnels with a short lead time.”

Macaluso is impressed with the Model Shop’s expertise and way of conducting business.

“Their work is extremely professional, and the results show how much pride they take in what they do,” he said. “The work they performed on the BLU-109 was adjusting the strakes on the side of the JDAM to match the current variant used in the USAF Fleet.

“These strakes are as thin as razor blades and the angle adjustment is critical. The Shop’s precision was paramount to our success. Their capability is invaluable to us. Many of our projects require extreme precision. When preparing for a test we are glad to have confidence in a ‘local’ group who we can turn things over to with minimal oversight. When testing, the customer is paying over \$1 per second for our services and when the customer’s requirements change mid-test, we know we can count on the Model Shop getting results to us quickly.”

Wright emphasized how important the Model Shop is in meeting the mission at AEDC.

“Approximately 80 percent of the tests conducted in Tunnel 4T investigate weapons separations,” he said. “This improved capability will advance AEDC’s ability to more precisely perform store separation tests and meet customer needs.”

Paul Jalbert, an ATA aerodynamic project engineer, is overseeing a Compensated Hypersonic Instrumentation for Loads (CHIL) balance project.

“The objective of the CHIL balance project that is nearing completion is to develop a new, small, high-temperature capable balance that will enable store separation testing from aircraft models in high Mach number wind tunnels like Tunnels A and B in VKF,” he said. “The CHIL Balance was successfully fab-

ricated in the AEDC Model Shop, instrumented in the PWT Balance Laboratory, and is currently undergoing acceptance testing.”

He said the effort involved around 20 people in AEDC’s Model Shop to plan, machine and inspect the CHIL balance.

“Balance fabrication is difficult and requires lathes, mills, grinders, wire EDM (Electrical Discharge Machining) and die sinker machining,” Jalbert said. “The CHIL balance fabrication was completed in only eight weeks. Following the precision inspection, rework on one non-compliant part was limited to 7 percent of the total effort.”

A balance of this type presents challenges to everyone involved.

“The very small size of the CHIL balance and some of its calibration hardware presented a great challenge to the crew that did the machining inspection and to the crew that installed the strain gage instrumentation,” Jalbert said.

Jeff Quattlebaum, an ATA cooling water system engineer, tasked the Model Shop to fabricate and machine a steel pipe fitting called a ‘tee’ for the ASTF Cooling Towers.

“The tee is a steel pipe fitting, connecting three 72-inch diameter pipes at a perpendicular intersection,” he said. “The tee is important because it is in the 72-inch discharge pipe leaving the cooling towers going to the plants and test cells.

“Without it the cooling towers are not usable. When the cooling towers are running at full capacity, about 205,000 gallons per minute of water pass through the tee on the way to the equipment in the plants and test cells that are being cooled.”

Quattlebaum said the tee was fabricated to replace the one installed as part of the construction of the ASTF Plant and Test Cells in the early 1980’s.

“The welds on the tee had deteriorated from corrosion and cracked,” he



Above, Tim Taylor and “Chief Craftsman” Rodger Ford, ATA boilermakers, operate the 500-ton press brake to straighten the vertical housing front cover for the 4T CTS, before the part is heat treated. Below, ATA boilermaker Rusty Hargis works on the 4T CTS Doghouse. (Photos by Rick Goodfriend)



said. “This crack caused a significant leak – the pipe contains 100 psi water. This section of the system, including the ASTF Cooling Tower, had to be shutdown in the fall of 2011.”

With the new tee fabricated and welded into the system, the excavation site is currently being back-filled while utilities are reinstalled before power is restored to bring the towers back in service at the end of the month.

Boilermakers, pipefitters, and sheet metal workers contributed to the project.

“The team effort and workmanship provided by the Model Shop was excellent,” Quattlebaum said. “The fabrication of the replacement tee was one of the first big efforts in the critical path of getting the

ASTF Cooling Towers back in service. The quick turn-around they provided in building the tee set the tone for the rest of the effort.”

The smallest fabrication and machining jobs require a microscope to complete. John Adams, an ATA machinist/welder at AEDC’s Model Shop, is the craftsman who does this scale of work.

“I do all the welding for the machinists – everything from the micro-welding with a laser to rotary tube welding to large frames and structures like thrust stands and thrust stand adapters,” he said. “I recently welded some data probes with our laser welder. I use the laser welder to weld small or delicate parts. I am certified in many different processes on many different materials. I also do various types

of soldering.”

Adams added, “We are very proud of our work and capabilities.”

For John England, working at the Model shop is more than a job; it literally translates to family ties.

“My dad worked for the center contractor who poured and finished the floors here in the early 1950s,” said England, ATA’s boilermaker working foreman at the Model Shop. “I’ve counted 16 boilermakers, our supervisor and one planner – that brings 298 years of AEDC’s service time and experience to the table. We have the expertise to do the unique work that the Model Shop does for AEDC and their capabilities are increasing as we add new machines and training to our employees.”

## SPECKLES from page 7

According to Poland, they were designated as the last UAV mission to take off and land from the now, Iraqi-owned installation. The U.S. mission of their site was to maintain security on the main supply route until the last of the troops had withdrawn.

“After we landed we went over to the tactical operations center, composed of Army personnel, and were congratulated for being the last UAV to take off and land in Iraq,” said

Poland. “It was somewhat surreal as we had been so focused on our operations that we hadn’t taken note of what we were actually taking part of. We were all [crew members] very excited to contribute to the security of the troops all the way to the end of the mission.”

According to Poland, on the last day of operations, there was a ceremony with the Brigade and Iraqi leadership where the U.S. military signed over the

site to the Iraqis.

After the U.S. mission was completed it was time to disassemble equipment. The group tore down and packed up within two hours.

“According to my notes, this was the UAV’s 23rd mission, and it performed flawlessly during the entire duration of the deployment and earned the nickname, ‘Old Faithful,’” said Poland.

Parisi said that as of a year ago the Speckles pro-

gram has saved numerous lives and multi-million dollars worth of equipment for the military.

“This program is saving the taxpayers money, but most importantly, saving the lives of their loved ones,” Parisi said. “Speckle’s gives preliminary knowledge of where to patrol. Many times Speckles has been the reason for why troops look in a particular spot for IEDs and disarm them in a timely fashion.”

While the system is only temporarily being used by the Army, it has been influential in the ISR world in terms of helping complete its missions in Iraq.

“This event is definitively a success story; I’m happy to see AFRL collectively partnering with other military branches and industry to develop a program that saves lives. We are very proud of those you played a role in completing the mission successfully,” said Joe Sciabica, execu-

tive director of the Air Force Research Laboratory.

Overall, Poland believes his deployed experience is one that many others should have.

“I’m happy to have had my experience and be home with my family,” Poland said. “I would advocate for anyone interested in supporting this type of Air Force mission and I will always speak positively of the Air Force’s role of supporting our airman.”



# AIAA Award recipients recognized at ALC luncheon



AEDC Commander Col. Michael Brewer, left, AIAA awards event guest speaker, looks on as Mark Rigney, ATA director of ATA Information Technology and Systems Department, presents James L. Taylor with a 2012 AIAA Tennessee Section Special Award for his application of measurement and uncertainty principles to testing at AEDC.



Left, Dr. Heather J. Johnson, of Vanderbilt's Peabody College Department of Teaching and Learning, and Dr. Amrutur Anilkumar, Professor of the Practice, Department of Mechanical Engineering, Vanderbilt University, right, present (left to right) Michelle Cotterman, Paul Allen and Zacharia Smith with a 2012 AIAA Tennessee Section Special Award for their STEM educational outreach activity at Nashville schools.



Anthony Watts, with Jacobs Technology's Advanced Technology Group (far right), presents the Jacobs Technology team's (from left) Brian Garland, Mike Maples, Gene Tennyson, Rich Wakeman, Jason Brooks, Chris Porter and Bill Martindale with a 2012 AIAA Tennessee Section Special Award for design of facility improvements to NASA Glenn Research Center's Icing Research Tunnel.



Don Gardner, right, ATA technology manager, presents Katie Stephens with a 2012 AIAA Tennessee Section Special Award for her support to the F-22 Class-E investigation at Joint Base Elmendorf-Richardson, Alaska.



Right, Anthony Watts, with Jacobs Technology's advanced technology group, presents Grady Pike Saunders, Jacobs Technology, with the 2012 AIAA Tennessee Section Billy J. Griffith Engineering Analysis Award for the A3 Test Stand heat load analysis at NASA's Stennis Space Center.



Mark Brandon, right, ATA TAPS program project manager, presents Dr. Robert Hiers III, center, with the 2012 AIAA Tennessee Section General H. H. Arnold Award in recognition of his outstanding contributions toward advancing aerodynamic science through his work on the Towed Airborne Plume Simulator (TAPS).



Far left, front, AEDC Test Division Deputy Director Navy Cmdr. Brian Allen, presented AEDC B-52H's model team, (l - r, back row) Joe Todd, Derrick Burton, Scott Henninger, Danny Owens, Dusty Rogers, Eric Mitchell, David Taylor, Walt Bishop and Paul Denton, (l - r, second row) Moufid Aboulmouna, Greg Fox, Dwayne Taylor, R. D. Green, Don Ingle, Phil Jacobs, Russell Arbuckle, Bob Williams, and Norman Smith as AEDC Commander Col. Michael Brewer, the AIAA event's guest speaker looks on. Also included pictured are (left to right, front row), Doyle Veazey, Pete Macaluso, Bob Boswell, Joel Gregory, Russ Parker, Teddy Perry, Brad Tucker, Stacey Lowe-Allen and Angie Holder with a 2012 AIAA Tennessee Section Special Award for outstanding initiative, cooperation, and customer support in building the model for 16T.



## UTSI students continue AIAA conference winning streak

UTSI students Tim Barber and Charles Haddad won best papers in the Masters Division at the 63rd American Institute of Aeronautics and Astronautics (AIAA) Southeastern Regional Student Conference.

The conference, held at Cape Canaveral, Fla., was attended by several universities from the southeastern region.

This marks a three-year winning streak, with five best paper awards, for the graduate students of professor Joe Majdalani, Arnold Chair of Excellence and professor of mechanical, aerospace and biomedical engineering.

The 5-for-5 award capture is a true reflection of the outstanding performance of the students

and the significance of their research topics. The papers will be submitted to scholarly journals as suggested by the judging panel.

Barber's award winning paper entitled, "Bidirectional Helical Motion in Tapered Rocket Chambers," was coauthored with his advisor, Majdalani. His paper introduces a framework that can provide important physical insight into several applications, such as liquid rocket engines, and explain the motion of conically-shaped tornadoes and tropical cyclones.

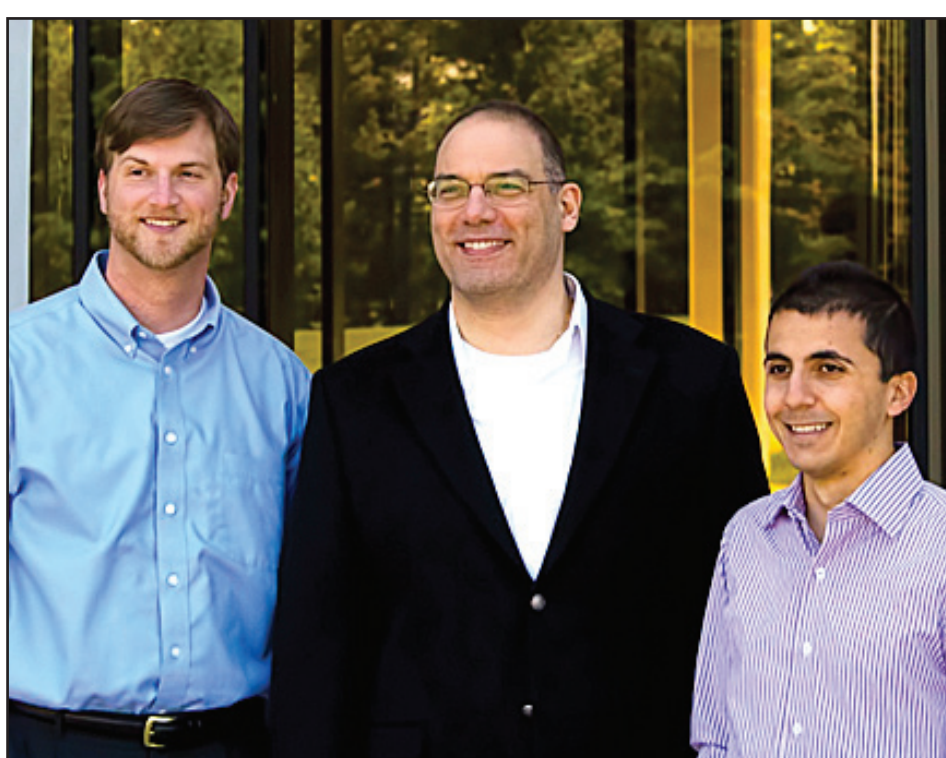
Barber, a native of Nashville, is pursuing his master's and doctorate degrees in aerospace engineering. He will receive a paid trip to participate in

next year's international student competition in Texas.

Haddad won second place with his paper entitled, "On the Sidewall Boundary Layer of Transverse Waves in Simulated Liquid Rocket Engines." His paper, also coauthored with Majdalani, investigates the boundary layer development due to transverse waves in liquid rocket engines.

Haddad is from Beirut, Lebanon and is pursuing a master's degree in aerospace engineering.

The awards were presented by Dr. Robert Youngquist, guest speaker and lead scientist of the Kennedy Space Center Applied Physics Laboratory. (Information provided by UTSI)



The UTSI award recipients in the Masters Division of the 63rd AIAA Southeastern Regional student conference are pictured above, left to right: Timothy A. Barber (First Place), Dr. Joseph Majdalani (faculty advisor), and Charles T. Haddad. (Photo provided)

## New 3-D laser scanner makes impact at Eglin AFB

By Minty Knighton  
Team Eglin Public Affairs

**EGLIN AIR FORCE BASE, Fla. (AFNS)** – When the 46th Test Wing's Air Force SEEK EAGLE Office purchased a 3-D laser scanner system six months ago, they had no idea how much of an impact this system would make.

"This is state of the art," said Mark Hillman, SEEK EAGLE lead engineer. "We are breaking ground for the military."

The approximately \$150,000 Leica HDS 7000 3-D laser scanner and Rapidform reverse engineering software program was purchased to quickly build accurate digital models of Air Force aircraft and weapons for use in aircraft-weapon compatibility analyses.

"Before, we had to implement the real tests to determine how capable a system would be," said Paul Collins, SEEK EAGLE lead contract engineer. "Now we build models for use in simulated test environments for a good indication of the outcome, before we

go into actual testing, which can save hundreds of thousands of dollars."

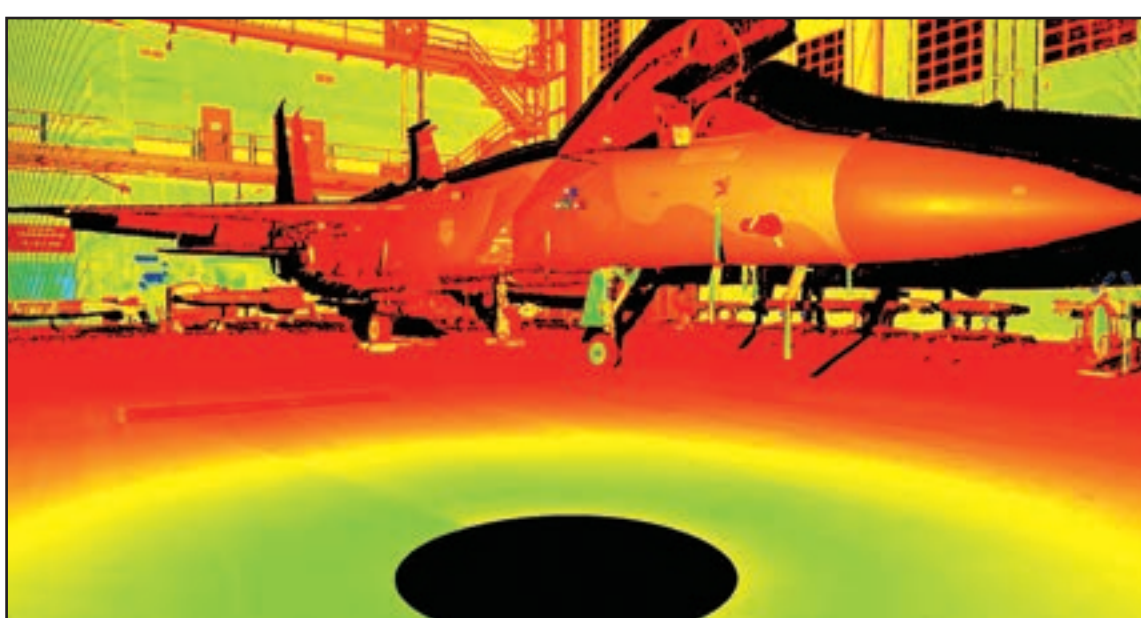
After one month of trial scans, they were able to use it to quickly scan an entire aircraft.

"Four years ago, it took six people two weeks to manually collect 3-D data for the A-10 aircraft," said Collins. "With the laser scanner, two people can collect the same amount of data in two days, a 93 percent reduction."

Additionally, the accuracy of the laser is +/- 0.01. Using the manual method, the accuracy was at best +/- 0.03, according to Collins.

The data collection process involves positioning the scanner at various positions around the airplane. The scanner automatically sweeps a laser beam across the aircraft to generate a 3-D point cloud.

"Any areas where good data is not collected, such as shadows, are depicted as black holes in the scanner software requiring the scanner to be re-positioned for optimal results," Collins said.



An image of an F-15 from SEEK EAGLE's 3D scanner currently in use at Eglin Air Force Base, Fla. (Photo provided)

After scanning an aircraft, SEEK EAGLE engineers use Rapidform reverse engineering software and the 3-D point clouds to construct solid digital models.

"Improvements in using Rapidform to construct the solid models from the scanned data have been significant," Collins said.

The SEEK EAGLE engineering team didn't go into this venture lightly. They started with requirements from the entire Air Force SEEK EAGLE Office and did an in-depth comparative analysis of the viable systems before choosing their current combination of hardware and software.

Overall, the scanner and software has reduced their costs by about 75 percent.

Word of the success and benefits of the system spread to others.

"Other military services have started contacting us to use the system," Collins said. "Two weeks ago, we scanned 13 Navy aircraft in eight days."

## Speed of cyber acquisition focus of Hanscom meeting

By Patty Welsh  
66th Air Base Group Public Affairs

**HANSCOM AIR FORCE BASE, Mass.** – Flexibility with, and the future of, cyber acquisition was the emphasis of a presentation by Col. Bill Polakowski, Cyber Integration Division deputy, to the Hanscom Representatives Association May 22 at the Minuteman Commons.

"The message is cyber [acquisition] changes quite a bit each month as acquisition strategies, requirements and programs mature," he said. "It's

changing at the speed of cyber – what I'm telling you now is current as of an hour ago."

Today's architecture is stovepiped with different applications providing different services and it needs to move toward core services, the colonel said.

"With a new architecture, we need a new understanding – ensuring contracts will be flexible," he said. "We need to look at how to respond to warfighters' ever-changing desires."

Highlighting the fact that cyber acquisition is very different than acquiring weapons or hardware, Polakowski said that currently his team might award a contract that delivers a capability every year, but the warfighter wants it delivered much faster.

Ideas the division is looking at include changing acquisition strategies to be more flexible, such as a system integrator contract where new requirements would be inserted into the

cycle every six months or having options that could be exercised on the contract laid out from the start.

"We need creative approaches," he said, adding that they are not looking to stand up new large programs of record but instead sustainment or modernization activities.

While speaking about possible upcoming industry opportunities, Polakowski mentioned one way to improve efficiencies would be to look at third-party

financing for base virtualization projects, such as electrical companies partnering with an information technology company for architecture modernization.

The colonel also spoke about upcoming changes to the division.

He mentioned new programs that have been added to the portfolio such as Global Combat Support Systems and Enterprise Information Services, along with a new sustainment workload. Air Force Di-

rectory Services is another project coming into the portfolio.

He also talked about organizational structure changes.

"We are going to have significant changes with the organization of the division," he said. "The requirements change so rapidly and we need to be able to adapt to deliver capability in the future."

Polakowski said that the

See **CYBER**, page 12







## Training course held at AEDC



The Middle Tennessee Chapter of the American Society of Military Comptrollers (ASMC) hosted its first ever Enhanced Defense Financial Management Training Course (EDFMTC) at Arnold AFB May 14-18. There were a total of 26 attendees from a variety of locations across the U.S. The EDFMTC is a five-day, intensive financial management review course taught and tested in three modules. The course is provided by the Department of Defense and is licensed and copyrighted by the American Society of Military Comptrollers. This course prepares candidates sitting for the Certified Defense Financial Manager (CDFM) certification designation. To date, four of the 26 candidates completed the three module testing requirement during the course week. Others are scheduled to test in order to earn their certification. In order to streamline this certification process, the Education and Training Office at Arnold AFB can now proctor these exams. For more information on obtaining your CDFM certification, please visit [www.asmcnline.org](http://www.asmcnline.org). (Photo provided)

## F-35B lifts off for first flight at Eglin AFB

By Chrissy Cuttita  
Team Eglin Public Affairs

**EGLIN AIR FORCE BASE, Fla.** – An F-35B Lightning II made its first flight at Eglin Air Force Base today, two months after 2nd Marine Aircraft Wing officially introduced the Marine Corps' fifth generation fighter to the world at the 33rd Fighter Wing.

"Marine Fighter Attack Training Squadron 501 has had an exciting year with the arrival of our first three aircraft in January, the official roll out ceremony in February and now generating sorties along with other military service and contract partners here," said Lt. Col. David R. Berke, commanding officer of VMFAT-501.

The goal for Marines was to start local area operations and conventional flights, beginning the pro-

cess of gradually expanding the envelope to short takeoffs and vertical landings (STOVL) and more complex aerial training.

The F-35B is part of the Marine Corps' ongoing effort to modernize its aging fleet of aircraft and to take advantage of fifth generation technology that will greatly enhance its capabilities as America's expeditionary crisis response force.

Once fully fielded, the Joint Strike Fighter will replace the F/A-18 Hornet, EA-6B Prowler and AV-8B Harrier.

With a fully-fielded fleet of F-35Bs and F-35Cs, America will maintain 22 capital ships – 11 carrier and 11 amphibious assault – with strike assets capable of projecting influence and conducting strike operations.

"It's another milestone in what we are calling our

execution year," said Col. Andrew Toth, 33rd FW commander. "Adding more aircraft to the fleet, filling up the flying schedule with two aircraft variants and certification classes ongoing at our F-35 Academic Training Center are testimonies of our wing's success in standing up our nation's Joint Strike Fighter training for future generations."

Since 2009, the Air Force, Navy and Marine Corps have sent their best aviators and aircraft mechanics to pave the way for this execution year and beyond.

Each service's operational squadron is collocated on the 33rd FW flight line, sharing capabilities although each reports through its own chain of command. VMFAT-501 reports to 2nd MAW, headquartered at Marine Corps Air Station Cherry Point, N.C.

Maintainers have been preparing for today's launch with engine runs and taxi operations for approximately eight months since F-35 aircraft began arriving here last summer.



**Marine Maj. Joseph Bachmann, a Marine Fighter Attack Training Squadron-501 pilot, takes off in his first F-35B sortie from Eglin Air Force Base, Fla., May 22. The goal for Marines was to start local area operations and conventional flights, beginning the process of gradually expanding the envelope to short takeoffs and vertical landings and more complex aerial training. The historic flight was airborne during the Marine Corps' 100th year of aviation, two months after 2nd Marine Aircraft Wing officially introduced the service's fifth generation fighter to the world at the 33rd Fighter Wing.** (Lockheed Martin photo/David Drais)

Utilizing virtual trainers, developing pilot curriculum and hosting small group tryouts has been the focus for personnel readying themselves for flight operations to come.

"It's amazing to believe 100 years ago Marine Corps aviation started and here today we launched a fifth generation aircraft," said Marine Sgt. Eric Spence, VMFAT-501 plane captain

for the first F-35B sortie. "It's history in the making. Every time one of those engines fires up I get pumped up and today it was a little extra."

The power plant mechanic said he prepared for the last six months by being involved in any F-35 maintenance training he could at the 33rd FW.

January's arrival of the first F-35Bs to Eglin Air

Force Base was called an historic event in Marine aviation history by the Deputy Commandant for Aviation, Lt. Gen. Terry G. Robling.

"With the arrival of that evolutionary aircraft, the first in a line of 420 Joint Strike Fighters that we will integrate into the force, we have come full circle nearly a century since our first aviator took flight," he said.

### CYBER from page 10

current cyber branches that are located at Hanscom and at Lackland AFB, Texas, will be merged into one division, with the system program manager residing at Lackland. As of a couple of weeks ago, Col. Christopher Kinne, the Cryptologic Systems Division chief, has been dual-hatted as both the Crypto and new Cyber Di-

vision chief as it stands up.

"Right now we are looking at the plans, procedures and our relationship with the 24th Air Force to see how to best operate under this new construct," Polakowski added.

Cyber defense branches that are currently under Special Programs will also become a part of the division. A new piece of the

division to help with flexibility and creativity will be a Cyber Solutions Cell.

"The Cell will be a collaborative environment where we can take good ideas from the labs, from industry, from MITRE and operational users and look to see if it's a capability that can be rapidly transitioned into operational use," he said.

The colonel stressed that the cyber environment is constantly changing.

"It's a very dynamic environment," Polakowski said. "Operators keep asking for more situational awareness, more optimization, more virtualization, and we need to be more flexible to deliver that capability at the speed of cyber."





## Arnold Golf Course 454-7076

Check us out on Facebook!  
Arnold AFB Golf Course

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

**Member Guest Tournament** will be held June 23-24 with 8 a.m. shotgun start both days. Entry fee is \$125 per team and includes green fees, cart, food and prizes. Sign up in the Pro Shop by June 21.

**Mulligan's Coffee Bar & Grill** is open 10:30 a.m.-2 p.m. Monday through Friday and 8 a.m.-2 p.m. Saturday and Sunday. Call ahead orders for dine in or carry out, 454-FOOD (3663).

## Arnold Lakeside Center 454-3350

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

**First Friday Jam** is cancelled for June and July but will return in August.

**Weekend dining room specials (all include two sides and salad bar):**

All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

### Friday 4-9 p.m.

**June 1:** Mexican buffet, \$7.95 member, \$9.95 non-member.

**June 8:** Butterfly shrimp, \$10.95 member, \$12.95 nonmember.

**June 15:** Italian buffet, \$7.95 member, \$9.95 non-member.

**June 22:** Fried chicken plate, \$9.95 member, \$11.95 nonmember.

**June 29:** Barbecue buffet, \$7.95 member, \$9.95 nonmember.

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

**Closed June 30 for special function.**

Books Are Fun is back for a **book fair** 9:30 a.m.-3 p.m. June 5 in the A&E Building's Café 100, room C102. Discounted selections include paperbacks, best sellers, educational, reference, cookbooks, children's items, gift selections and more. Save up to 70 percent off retail prices.

### June Movie Schedule

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

**Jun. 7** – “Ghost Rider: Spirit of Vengeance,” rated PG-13 (1 hr. 35 min.) starring Nicolas Cage, Ciaran Hinds and Idris Elba.

As Johnny Blaze hides out in Eastern Europe he is called upon to stop the devil who is trying to take human form.

**Jun. 14** – “Big Miracle,” rated PG (1 hr. 47 min.) starring Drew Barrymore, John Krasinski and John Pingayak.

In small town Alaska, a news reporter recruits his ex-girlfriend – a Greenpeace volunteer – on a campaign to save a family of gray whales trapped by rapidly forming ice in the Arctic Circle.

**Jun. 21** – “John Carter,” rated PG-13 (2 hr. 12 min.) starring Taylor Kitsch, Lynn

Collins and Willem Dafoe.

Transplanted to Mars, a Civil War vet discovers a lush planet inhabited by 12-foot tall barbarians. Finding himself a prisoner of these creatures, he escapes, only to encounter a princess who is in desperate need of a savior.

**Jun. 28** – “Dr. Seuss’ The Lorax,” rated PG (1 hr. 26 min.) starring voices of Zac Efron, Taylor Swift and Danny Devito.

A 12-year-old boy searches for the one thing that will enable him to win the affection of the girl of his dreams. To find it he must discover the story of the Lorax – the grumpy, yet charming, creature who fights to protect the world.

Arnold Lakeside Center has planned a **Day Trip to Chattanooga** June 16 to visit Lookout Mountain and Ruby Falls. Lookout Mountain is home to Rock City, which is 1,700 feet above sea level with a 100-foot waterfall that cascades down the mountain. It also has the famous Swing-A-Long bridge that spans nearly 200 feet. The self-guided tour along the brow of the mountain gives you a bird’s eye view where you can “See Seven States.” Ruby Falls is America’s deepest cave and largest underground waterfall accessible to the public. Meet at the ALC at 10 a.m. Cost is \$55 for adults and \$35 for ages 3-12. Deadline to sign up is June 13. There must be at least six to take the trip. Remember to bring money for lunch and souvenirs. Call 454-3303 for more information and to sign up.

**Last Friday Trivia Contest** is 6:30 p.m. June 29. Teams can have up to four people. No cell phones are permitted during the event. Anyone using a phone while a question is underway will be disqualified. Questions in random categories will be given. Prizes for top finishers.

**Sign up for Members First Plus now through July 13 and the first three months are free**

All who sign up for Members First Plus membership between now and July 13 will automatically receive three months free dues, be enrolled in the free cash back rewards program, and win \$5 to \$100 instantly upon application through a scratch off/gift card program. “We want all personnel to consider membership and understand the benefits of membership, and our “Membership Matters” membership campaign gives them the opportunity to try it free for the first three months,” said Fred McKenney, Chief of the Air Force Food and Beverage Division. During the promotion everyone eligible and interested in AF “Club” membership should look for the membership promotional materials in Services activities. Pick up an application, fill it out, and experience the benefits of membership – the first three months dues are on us! The membership card provides numerous benefits. The Military Free Cash rewards program is an outstanding benefit to members. When you use your membership card in any on-base Services activity, you earn 2 percent cash back on every eligible purchase including AAFES and Commissary. Additionally, you earn 1 percent cash back on eligible purchases everywhere else including all off-base purchases. In addition to being able to redeem points for cash back

and gift cards, you now can also redeem for travel, to include airline tickets, hotel, and car rental – super flexibility – and it is all free, as a benefit of club membership! Members First Plus offers members numerous free and inexpensive activities including discounts on meals to include special functions, an annual \$25,000 scholarship program, discounts on other areas in Services such as golf and boat rental and other member’s only programs. Call 454-3350 for more information on Members First Plus membership.

**Club Membership Scholarship Program** is back. Members First Plus members and their family members who have been accepted by or enrolled in an accredited college or university for entry during the 2012 fall term as part-time or full-time are eligible to enter. There will be 25 \$1,000 scholarships awarded during this program. To enter you must write a 500-word essay following the required formatting on the topic “What do the words to ‘America the Beautiful’ mean to me” and submit on CD to Services Marketing, A&E Room C303, by July 2. Along with the essay, complete the entry form and provide current college/university acceptance letter for new students or official transcripts for those already enrolled. Entry forms are available at Arnold Lakeside Center, Fitness Center, Arnold Golf Course, Outdoor Recreation and Marketing. Winners will be announced on September 17. For more information visit [www.af-clubs.net](http://www.af-clubs.net).

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

Check us out on Facebook! Arnold AFB Services Youth Programs

**Camp Adventure returns June 4!** Once again, Services Youth Programs will host Camp Adventure, a summer day camp run by skilled professionals through the University of Northern Iowa. The camp will run for nine weeks Monday through Friday from 7:30 a.m.- 4:30 p.m. This program is for ages 5-12 and children may attend any or all of the nine weeks. Each week is set to a theme with activities and field trips planned to coincide with that theme. Morning and afternoon snacks will be provided, but parents must supply their child with a sack lunch daily. Outdoor and swimming activities are planned throughout the week, weather permitting, so it is recommended that each child bring an extra pair of clothing, swimsuit, towel and sunscreen daily. Closed toe shoes must be worn at all times during camp. Children may be dropped off no earlier than 7:15 a.m. each morning and any child not picked up by 4:30 p.m. will be transitioned to Open Recreation and must be picked up no later than 5:30 p.m. or an additional fee of \$10 will be applied. Weekly fees are based on total household income ranging from \$55 to \$137 per week. To enroll your child complete the application form and provide a copy of your leave and earnings statement or W2 to determine applicable fees. Other documentation required includes AF Form 1181, Youth Registration, and AF Form 1055, Medi-

### Hours of operation:

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

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

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

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

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

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

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

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

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

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

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

**Nonappropriated Funds Human Resources:** Monday through Friday 7:30 a.m.-4 p.m.

ation Permission Slip (if applicable). Registration is required two weeks prior to start of camp and a separate application is required for each child attending. The weekly themes, activities and field trips are listed below. Contact Youth Programs for more information and to register.

### Week 1: 4-8 June, Ice Age Charades & Escapades

Set your sights for the Northern Lights! Camp Adventure is heading on an amazing adventure back through time. Pack your parkas and join Sid and his frosty friends as we experience fantastic fun the Ice Age way. We’ll search for earthshaking and quaking Mesozoic marvels and search for colossal fossils! Navigate by the stars, go ice fishing and race your kayaks. It’s a frostbite invite to the North!

**Swim: Tuesday & Thursday**

### Week 2: 11-15 June, Big Top Party Parade

Come one, come all to our big Top Party Parade! Breeze through the air on a Camp Adventure trapeze and hop on board our circus train! It’s miles of smiles with crazy clowns on a parade through town. There will be amazing animal antics and a big Zooprise when Marty and Melman, on the loose from the zoo, join us on our European circus tour. You’ll find this week of circus charades and parades simply sidesplitting at our Camp Adventure Show Stopping Spectacular.

**Swim: Tuesday & Thursday**

**Field Trip: Friday, Nashville Zoo**

### Week 3: 18-22 June, Kimonos, Kites, & Japanese Folk Tales

Konnichiwa! Camp Adventure has your passport to Far East adventure! Enter the terrific Pacific Rim and explore the islands of Japan. Trek to the top of Mt. Fuji, wear a kimono, and karaoke in Kyoto! Come fly kites with Camp Adventure and delight in a celebration of Japan! Follow the mysterious folklore of Far East fairytales into a teeny, tiny borrower’s world of Arrietty and her family! Oh no... we are all shrinking!

**Swim: Tuesday & Thursday**

### Week 4: 25-29 June, Gold Rush Miners and 49ers

Westward ho and away we go! Circle your wagons and follow the miners and 49ers to the wild frontier. Yipp-ee-i-o-ki-yeah! We’re off to Cali-form-i-a to pan for gold in the Prospector’s Paradise. Saddle up and gallop on in for rootin’ tootin’

high falootin’ fun! Corral around the campfire and snuggle up under a blanket of stars. We’re at home on the range showing how the west was FUN!

**Swim: Tuesday & Thursday**

**Field Trip: Friday, Ruby Falls in Chattanooga**

### Week 5: 2-6 July, Fabulous 4th Freedom Fest

Come cheer for the team and the American dream with Camp Adventure. Say “hip-hip hooray” for Team USA at a double header of old-fashioned fun and fantastic friendships! Children of the nation cast YOUR vote and be counted at Camp Adventure’s Convention Celebration. We’re making sparks fly this 4th of July at our Star Spangled Spirit Spectacular!

**Tuesday:** Family Barbeque at ALC pavilion

**Wednesday: Holiday CLOSED**

**Swim: Thursday**

### Week 6: 9-13 July, Crusin’ Through the Cosmos

It’s your time to shine on a planetary race through outer space! See star-tacular scenes as we zoom to the moon and take a spin around the solar system. Learn the order of the planets and hunt for moon rocks. Rev up with rocket science and concoct space chase snacks and constellation crystals. Join Camp Adventure on this outrageous exploration celebration to the outer limits... and may the force be with you!

**Swim: Tuesday & Thursday**

**Field Trip: Friday, Huntsville Space & Rocket Center**

### Week 7: 16-20 July, Outrageous Olympic Odyssey

Light the torch for the Camp Adventure Olympic trials and triumphs! The world gathers for the Olympic games in fun, fabulous London. Awesome Camp Adventure athletes are on an odyssey to the 2012 London Olympics. Join the international spirit in our opening ceremony with a proud parade of nations. This summer go for the gold! Dare to dream! You’re an Olympian on the Camp Adventure team.

**Swim: Tuesday & Thursday**

**Tuesday: Drama Quest Workshop - workshop uses role-playing to help students develop positive self-esteem, increase their communication skills and teach constructive group dynamics.**

**Thursday: Let’s Make-Up Workshop - get visual image of theater make-up techniques**

**Note: Missoula Children’s Theatre presents**

**“The Tortoise Versus The Hare” auditions Monday 4 p.m. at Manchester Performing Art Center with rehearsals Tuesday through Thursday 1:30-5:30 p.m. and Friday performance 7 p.m.**

### Week 8: 23-27 July, Slam Jammin’ Sports Celebration

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

**Swim: Tuesday & Thursday**

**Field Trip: Friday, Tulsa Bowling Lanes**

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

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

**Swim: Tuesday & Thursday**

### Missoula Children’s Theater, is coming July 16-20 with “The Tortoise Versus the Hare.”

Auditions are open to children entering first grade through 18 years of age. All AEDC families and local surrounding communities are eligible. Pre-registration is required between June 1 and July 12. A total of 60 cast members and four assistant directors will be filled. Cost is \$20 per child and additional children in the same family will receive \$5 off. Late registration fee will be \$25 and cancellation fee after July 12 is \$10. Payment is required at time of registration. Auditions for those registered will be held 4-6 p.m. July 16 at the Manchester Performing Arts Center with some rehearsal to follow. Rehearsal will continue throughout the week from 1:30-5:30 p.m. A public performance will be held at the Manchester Performing Arts Center 7 p.m. July 20. Admission is \$10 for adults and \$5 for ages 3-5 years.

“The Tortoise Versus the Hare: The Greatest Race” is set somewhere in desert country where the inhabitants of West Sandy Bottoms are preparing for the highlight of their year – the See **SERVICES**, page 15



**SERVICES** from page 14

annual race between the Reptiles and the Mammals. A company of strolling actors attempts to tell the tale in classical fashion. The Hare's weasely managers brag about their racing star as the various reptiles assemble to choose their candidate. Fan clubs are preparing their cheers as the big day draws near. Philoh Ferret reminds the racing fans that his service station is for "mammals only." As we see the race through the eyes of a television news team covering the event, we soon discover that there is more than a sporting rivalry between the brown animals and the green animals. Loyalties to their specific colors create a real animosity among these creatures. Sound familiar? As the race proceeds, a tiny bunny is lost in the wilds of Tornado Gulch and, almost miraculously, color is forgotten as the mammals and reptiles join in the search. The wisdom of the old tortoise and the lesson learned by the cocky hare remind us all that "color is just a color - it's just decorated skin." In the end, the animals realize the folly of their ways and live happily together in their sandy home.

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**Fitness Center**  
**454-6440**


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

**Exclusively Compound class** coming every Tuesday in June at 5:30 p.m. This class will go over compound/multi-joint movements, learning correct form, progressions and primary points of performance. Week one will be a Squat Clinic, week two Pull Clinic, week three Press Clinic and week four Putting it together along with the Olympic Lifts. A total of 16 movements will be covered. Space is limited and the class is for eligible users only. Call Kevin at the Fitness Center to sign up.

The Fitness Center will host the **27th Annual Golden Baton Relay** June 13 beginning at 8 a.m. The race will be held in front of the A&E building and each team runner must complete two laps before passing the baton to the next runner. Teams must consist of four runners with a combined total age of at least 120 and one timekeeper. Teams may select appropriate and tasteful ways to distinguish themselves and may bring their own baton or use batons provided by the Fitness Center. The first six teams to sign up will receive event T-shirts. Prizes will also be given for the most clever team name, best team costumes and overall team speed. Call 454-6440 to sign up or for more details.

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


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

Outdoor Rec has planned a trip to Chattanooga for a **Blue Moon Eco Tour Cruise** June 23. Hear the fascinating stories of early navigation of the gorge and enjoy the breath-taking beauty of the 27,000-acre canyon carved out by 26 miles of the Tennessee River over thousands of years. It is the fourth largest river canyon east of the Mississippi and the only large river canyon bordering a mid-sized city. The diverse landscape of the gorge provides habitats for more than a thousand varieties of plants, fern, trees, grasses and flowers as well as a rich wildlife population. Nearly 200 different species of birds inhabit "Tennessee's Grand Canyon." This trip begins in Chattanooga and will last two and a half hours. During the cruise enjoy a pulled pork and barbecue chicken meal to include potato salad, cole slaw, chips, pickle spear, tea and water. Cost for this adventure is \$65 per person and

deadline to sign up is June 8. Meet at Outdoor Rec at 11:15 a.m. and return approximately 5:15 p.m. Remember to bring your camera and extra money for sodas if desired. Call 454-6084 for more information and to sign up.

**Paintball tournament** is held on the third Saturday (except July and August) beginning at 10 a.m. Teams of four will play a single elimination tournament to test your skills until the best team arises. There must be at least one team member above age 18 and there must be at least six teams to hold the tournament. ODR has 25 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 \$25 per person and includes a bag of 500 balls and air for the day. Cost is \$20 if you use your own equipment. 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. Additional prizes will be awarded each month to the winning team. Sign up deadline for the tournament will be the Tuesday prior and late registration/cancellation fees will be applied the Wednesday prior.

**Paintball regular Saturday play** is every weekend from 9:30 a.m.-2:30 p.m. except third Saturday now due to monthly tournaments and the months of July and August due to heat. 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 2000.

All paintball programs are for ages 10 and older. Ages 10-17 must have a parent permission form. Remember to wear appropriate clothing - long pants, a long-sleeved shirt and closed toe shoes - as paintballs fly at 300 feet per second and can sting and possibly leave a mark other than paint. Call 454-6084 for more information about the paintball program or to sign up for these events.

Outdoor Rec is heading to the **Lane Motor Museum** June 9. The Lane Motor Museum features 150 unique cars and motorcycles and is home to the largest European collection in the U.S. The vehicles date from the 1920s all the way up to modern day and feature a varied collection of microcars, amphibious vehicles, military vehicles, alternative fuel vehicles, prototypes, one-of-a-kind vehicles and motorcycles. We will tour around the whole facility to see all the cars they have to offer. The cost for the trip is \$27 for age 18-64, \$25 for age 65 and older and \$23 for age 6-17. Meet at Outdoor Rec at 8:30 a.m. and remember to bring your camera. There must be at least eight to go and maximum participation is 14. Deadline to sign up is June 5.

**FamCamp Activities consist of lake boat tours and outdoor movie nights.** FamCamp guests will have added incentive to stay during June. What better way to spend a couple of hours on a Sunday than on a leisure boat ride tour of Woods Reservoir? For only \$5 per person, take a two-hour ride around the 3,980-acre lake. While on the tour enjoy the scenery and wildlife as you hear

stories of the lake and local area. Boat tours are available June 10 and 24 at 10 a.m., 12 p.m. and 2 p.m. If you are camping on Saturday, June 16 or 30, then you can enjoy an outdoor movie for free beginning at 7:30 p.m. Bring your chairs or blankets to the open grass area behind the upper bathhouse. June 16 will be showing "Red Tails" rated PG-13 starring Terrence Howard and Cuba Gooding, Jr. A crew of African American pilots in the Tuskegee training program, having faced segregation while kept mostly on the ground during WWII, are called into duty under the guidance of Col. A. J. Bullard. June 30 will be showing "Journey 2: The Mysterious Island" rated PG starring Dwayne Johnson and Michael Caine. Sean Anderson partners with his mom's husband on a mission to find his grandfather, who is thought to be missing on a mythical island.

**Basics of Lake Kayaking Class** will be held June 16 from 10 a.m.-2 p.m. This class will give you basics needed for kayaking on our brand new sit-a-top kayaks. Learn how to sit properly in the kayak, how to do proper strokes, self and assisted rescue procedures, turning methods, proper entry into the kayak and more. This training will help familiarize you with kayaking and give you the necessary tools to be safe and have fun. Make sure you wear appropriate clothing and bring sunblock because we will be getting in the lake during this class. Participants may bring their own kayak if you have one. The class is scheduled for two hours (depending on the amount of participants and questions) and then we will take a tour of the lake. This class is for ages 12 and up and cost is \$10 per person. There must be at least three to hold the class and maximum class size is six. Call to sign up by June 12.

**Archery Basics Class**

coming July 7 for ages 10 and older. The class costs \$3 and will begin at 9 a.m. Deadline to sign up is July 4. There must be at least three to take the course and no more than 10. 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.

**Canoe Basics Class** is coming July 14 from 11 a.m.-2 p.m. In this class you will learn the basics of canoeing. You will learn proper sitting positions, different strokes, the safety side of canoeing as well as learning how to work as a team. Get the summer started off right and learn the basics so you can go out on the lake completely confident and comfortable. Make sure you wear appropriate clothing and bring sunblock because we will be getting in the lake during this class. Participants may bring their own canoe. Class begins at 11 a.m. and will last approximately three hours. This class is for ages 12 and up and cost is \$7 per person. There must be at least four to hold the class and maximum class size is eight. Call to sign up by July 11.

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**Wingo Inn**  
**454-3051**


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**Check us out on Facebook! Wingo Inn**

**Reservations for Wingo Inn** can be made 120 days in advance. Room rates start at \$39 per night. Please call 454-3051 for reservations.

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**Gossick Leadership Center**  
**454-3024**


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## Air Force Marathon sells out in record time

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio** - The 2012 Air Force Marathon was already destined to be the largest ever, and now it will be the quickest to sell out completely as well.

The final 50 spots for the full marathon were snapped up early May 18 to make the sell-out official.

"I'm amazed at how this race has taken on a life of its own," said newly-installed Race Director Rob Aguiar. "We raised the cap by 1,500 runners from last year and still sold out sooner."

It is still possible to get in the race by going to [www.usafmarathon.com](http://www.usafmarathon.com) and visiting the section on 2012 Charity Partners. Runners can arrange to get a spot by running for one of the eight charitable organizations that still have spots.

Aguiar, who has been with the Air Force Marathon since 2008 and has served as assistant director since 2009, has watched the marathon grow from 7,400 running in 2008 to

the record 15,000 field this year.

The Air Force Marathon, presented by Northrop Grumman, USAA and Boeing, will be held Sept. 15, 2012, at the National Museum of the United States Air Force. Participants start and finish at the National Air Force Museum, and spectators are welcome at the museum or in downtown Fairborn. Other events include a half marathon and 10K to be held on Sept. 15. The Air Force 5K hosted by Wright State University will be run on Sept. 14 at the Wright State University Nutter Center. The Sports and Fitness Expo will also be held at the Nutter Center on Sept. 13-14.

For more information see [www.usafmarathon.com](http://www.usafmarathon.com).





