



HIGH MACH

Serving the World's Premier Flight Simulation Test Center



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Three new AEDC Fellows to be honored June 25

By Patrick Ary
Aerospace Testing Alliance

AEDC will induct a new AEDC Fellow, a Lifetime Achievement Fellow and the first Craftsman Fellow at the annual AEDC Fellows Banquet June 25.

Dr. Robert S. Hiers III is the newest AEDC Fellow, joining 64 others selected for the honor since the program began in 1989.

The AEDC Lifetime Achievement Fellow recognizes individuals who have made significant and exceptionally valuable contributions to AEDC throughout their careers.

This year's honoree is David C. Bond. His addition brings the number of Lifetime Achievement Fellows to seven.

William T. Scott is AEDC's first Craftsman Fellow.

Dr. Mark J. Lewis, the director-designate of the Science and Technology Policy Institute of the Institute for Defense Analyses, will deliver the keynote address at this year's AEDC Fellows Banquet. Lewis is the former Chief Scientist of the U.S. Air Force.

Dr. Robert Hiers III

Dr. Hiers began his AEDC career as a co-op student while he was pursuing his



Hiers

Bachelor of Science degree at the University of Tennessee in Knoxville. Upon graduation he accepted a full-time job within Sverdup's technology organization and has been working in technology ever since.

Today, as ATA's Technical Fellow for Instrumentation and Diagnostics Technology, Hiers has developed several outstanding examples of technology capabilities routinely used at AEDC and elsewhere



Bond

within the Department of Defense, including specialized diagnostic probes and associated data analysis methods; Fuel-Rich Exhaust Flow Inerting Methodology, which has reduced safety risks associated with exhaust flow in the J-6 Rocket Test Facility; and Enhanced Missile Signature Threat Models, which have been applied to support DOD warning sensor programs.

As a result of his expertise in rocket plume phenomenology, in 1999 Hiers and Dr.



Scott

Wheeler K. McGregor were called upon to advise the United Nations Special Commission regarding technical aspects of remote sensing capabilities of immediate concern. The commission was established to verify Iraq's compliance to destroy its weapons of mass destruction.

Hiers is being recognized for his outstanding technical contributions and

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Wolfenbarger receives fourth star, assumes leadership of AFMC

By Kim Dawley
AFMC Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Gen. Janet Wolfenbarger became the first female four-star general in the Air Force and assumed the top position of the major command responsible for the technology, acquisition, test and sustainment of the service's current and future weapon systems during ceremonies here June 5.

Wolfenbarger took the reins of Air Force Materiel Command from Gen. Donald Hoffman during a change of command held at the National Museum of the United States Air Force. Prior to the change of command, Wolfenbarger received her fourth star during a promotion ceremony.

Air Force Chief of Staff Gen. Norton Schwartz presided over the ceremony, during which he lauded AFMC's excellence

in keeping Air Force weapon systems ready, available and effective, and expressed his confidence that the command is in capable hands with Wolfenbarger.

"We honor Janet Wolfenbarger, an extraordinary public servant and a model Air Force officer," Schwartz said. "Based on her record, Secretary of the Air Force Michael Donley and I are entirely confident that she is up to the task of commanding this great organization."

Wolfenbarger thanked Schwartz and Donley for their faith in her ability to lead AFMC and said she was looking forward to once again being part of the AFMC team.

"This opportunity only really exists because the Air Force has embraced a culture of diversity," she said. "This culture has been cultivated over many years, driven by leadership at every

level who acknowledge and appreciate the value of contributions from every Airman.

"I promise I will serve in my role as AFMC commander with my absolute best effort," Wolfenbarger continued. "What's more, I have total confidence in the men and women of this command. We will always rise to the occasion and accomplish our difficult mission with determination and enthusiasm."

Schwartz also highlighted Hoffman's dedication to both AFMC's mission and its workforce.

"Don, thank you for presiding over an impressive effort here at AFMC," Schwartz said. "During your tenure, AFMC continued its longstanding excellence in research and development, test and evaluation, acquisition management, and logistics support."

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In the time-honored military tradition signifying assumption of command, Air Force Chief of Staff Gen. Norton Schwartz passes the Air Force Materiel Command guidon, or unit flag, to Gen. Janet Wolfenbarger. Wolfenbarger assumed command of AFMC June 5 in a ceremony at the National Museum of the U.S. Air Force. (U.S. Air Force photo/Michelle Gigante)

Chem and Met Lab supports wide variety of functions

By Patrick Ary
Aerospace Testing Alliance

It's fitting that a facility that deals in elements plays such an elemental role in what goes on at AEDC.

Almost every worker at AEDC depends on the Chemical and Metallurgical Lab at one point or another as they perform their duties.

The lab's chemists and metallurgical experts help keep facility tests running and on schedule, keep workers safe and even help solve the occasional mystery through their experience and state-of-the-art equipment that's a far cry from bubbling beakers and Bunsen burners.

"That is not the modern chemistry lab," said Bill Lock, ATA chemistry lab technical director. "The modern analytical chemistry lab now is robotics, autosamplers and computers."

A major function of the Chem Lab is supporting turbine engine testing. When a test is underway, an oil sample is sent to the lab for analysis. Workers analyze the sample, looking for 15 different metals. Usually within an hour, engineers back at the test cell receive a complete analysis. Once the test is complete, another oil sample is analyzed. Engineers can then use the data to see if there are any increased levels that could indicate an issue inside the engine that doesn't show up to the naked eye.

The Chem Lab also analyzes fuel samples. When tankers bring JP-8 fuel to the base, samples are taken and analyzed once fuel is loaded into the fuel farm's tanks, right before it goes into an engine for testing and once a test is complete.

"They're looking for any

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ATA Technical Specialist Sherry Binion prepares a sample of raw water for hexavalent chromium analysis in AEDC's Chem Lab. (Photo by Jacqueline Cowan)

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HIGH MACH

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An Air Force Materiel Command Test Center

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- Service before self
- Excellence in all we do

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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

Why I'm volunteering to go to Afghanistan

By Maj. Tyrell Mayfield
Naval Postgraduate Student

MONTEREY, Calif. – I am going to Afghanistan as an embedded advisor. I am an ACPAK (Afghanistan, Pakistan) Hand. I am a volunteer and that does not make me crazy.

I have volunteered for all manners of things in my life. I volunteered for the Army, to jump out of planes, for Ranger School. I volunteered to go to college, to join the Air Force, to earn a commission.

Over the course of the last 19 years I have also done a lot of things I was told to do. Out of spite sometimes, I did things which I was strongly advised against. "Don't do that, you'll ruin any career you might have in front of you," I was told by a colonel one time. But I wanted to. I felt like I needed to. So, I volunteered to be a Combat Aviation Advisor with the 6th Special Operations Squadron and that's when things changed.

I spent six months learning passable Arabic, then almost another year of training and education before I completed my "supervised deployment" and was a full-up round. The first trip was a real eye-opener for me. I had worked with foreign forces before and even had some integrated into units I had deployed with, but it was always on U.S. installations and on U.S. terms.

On my first deployment as an advisor I lived with my counterparts at a remote airfield. I stayed in their billets [quarters], ate

their food, walked their ground, on their terms. I spoke Arabic as much as I could, though what they really wanted was to practice their English on me.

We spent weeks trying to improve their air base defense knowledge, refining procedures and improving the integration of their forces. I did my best to teach them everything I could. What ended up happening was something I didn't really expect. I learned more in that month than I thought was possible.

My passable Arabic was not as impressive of an achievement as I had thought it was. I learned this sitting at dinner and trying to follow a conversation that flipped through Arabic, French, Berber, Spanish and English with as much effort as it took me to pour another glass of scalding hot tea.

I tried to ride some crazy Arabian horse and was unceremoniously and painfully tossed in the dirt to much laughter. I stubbed my ego badly but I earned some respect from my counterparts and in a way, some respect for my country too.

It wasn't a perfect trip. It was maddening at times, frustrating always and achieving what you might call "progress" was almost impossible to demonstrate, but it was there. The contact is what mattered. The relationship, the honesty, and the opportunity to explain a few things about

Leading across 'tribal' barriers

By Lt. Col. Clifford Rich
318th Training Squadron

JOINT BASE SAN ANTONIO-RANDOLPH, Texas (AFNS) – Twenty-first century technology and the 24/7 news cycle have made the world "smaller," but over millennia human nature has not changed. We long to identify with and belong to a tribe. The myriad of patches, uniforms, ranks and patchwork of partner nation flags bear witness to that constant within our armed forces.

Competition normally serves as a healthy catalyst that challenges us to give our very best. But where ignorance or artificial barriers serve to frustrate the free exchange of ideas and lessons learned, "tribal" tendencies lead to lost opportunities, duplication of effort and waste.

Cross-talk and learned lessons can't be accomplished when leaders are focused only on that which affects their "tribe."

True leadership demands you ask yourself two fundamental questions: "Who else would benefit from knowing what I've learned?" and "I wonder if anyone else has dealt with this issue?"

From a more pragmatic standpoint, the growing

budget scarcity we're faced with demands that leaders seek innovative ways to team with nontraditional partners, better collaborate with existing mission partners, and encourage innovation across the Department of Defense enterprise as well as the interagency landscape. You may have to be the one to break the ice!

In a recent speech to the Carnegie Endowment for International Peace, Chairman of the Joint Chiefs of Staff Gen. Martin Dempsey spoke of "building partners" as the second pillar of the strategy to rebalance U.S. forces.

He also described 21st-century adversaries as networked and decentralized. He further stated, "We have to find ways to be a network ourselves ... and that means a network of interagency partners internal to our government."

Despite the increasing mandate for greater interoperability with the armed forces of our allies, effective partnering with other nations at the macro-level will continue to be a slow process if we cannot first learn to improve our capacity for teaming at the micro-level with those who reside

America while learning a lot about the country I was working in was the intangible reward.

My following missions as a combat aviation advisor were similar but many were conducted under more challenging conditions. In a lot of places I ended up, my Modern Standard Arabic was almost useless. It was like learning English in London and then being assigned someplace on the bayous of Louisiana. English is English – until it isn't.

The war in Afghanistan carried on and I ended up in places where Arabic wasn't very useful. A lot of the work done by advisors happens on the fringes of conflict. It's like fighting a grass fire on the edge of a burning forest. If you pull it off you can stem the advancing fire. If not, you're likely to get caught up in a rapidly growing conflagration. Advising is often about containing and combating a problem by, with, and through those countries you've partnered with.

On one trip we worked with a partner nation for the better part of a year. I was exposed to an entirely different way of thinking; my own ideas were challenged and small tasks proved hugely important.

Culture in many of these countries is deep and, although I did my best, I was barely able to tread water early on. Shortly after this deployment was over the country we left was devastated by a natural disaster. I watched on TV from the

same installation and in the same city.

Look around Joint Base San Antonio on any day of the week. Mission partners are already hard at work smashing stovepipe mindsets and reaching across "tribal" barriers.

Among the flurry of diverse activities, you'll see a variety of ranks and service branches as well as partner nation students, instructors and administrators on the respective campuses of the Defense Language Institute English Language Center and the Inter-American Air Forces Academy.

Ultimately, whether you wear a suit or uniform to work, members of the armed forces are part of a much broader team than the unit to which they are assigned. Leaders must encourage their personnel to seek out teaming opportunities and embrace the broader sense of purpose that comes with being less tribal.

Will you lead by example?

"Individual commitment to a group effort – that is what makes a team work, a company work, a society work, a civilization work," said Vince Lombardi, a former National Football League coach.

comfort of my living room as the very units we were embedded with the month before saved countless lives. They were making a difference and I ached because I wasn't able to help. It was best that I wasn't there.

When we went back a few months later to the same unit I reaped a dividend of immeasurable value. America did too, but nobody ever saw it or wrote about it. You had to be there to see it and even then you couldn't have plotted it on a graph or built a chart out of the data. You could just feel it.

Their confidence was buoyed by success, their hard work had paid off and they were recognized anew for their professionalism and heroism by their government and the citizens

they served. Could more have been done if we had been embedded at the time of the disaster? Maybe, but our presence would have detracted from their success. It was best they did it on their own. We hadn't trained them in search and rescue, or humanitarian relief but they were able to take the skill sets we had worked on for so many months and adapt them to their new environment. They did it themselves and it made all the difference.

A number of conventional assignments followed. I was an operations officer, a wing staff guy, I commanded a squadron in garrison and deployed but none of it was as personally satisfying as the intangible reward I earned

See **VOLUNTEER**, page 5

Leading in our fiscal environment

By Capt. Nicholas Shimkus
66th Training Squadron Detachment 1 commander

EIELSON AIR FORCE BASE, Alaska (AFNS) – While executing a few mission rehearsals in the middle of the African desert, one of my men was returning to our rally point on his all-terrain vehicle and was being a little too aggressive in his maneuvers.

Sure enough, he ended up in the dirt with the ATV alongside him. The rest of the team ran to ensure he was uninjured. He was fine, but the ATV was now inoperative. I asked him what had happened and he replied that he was just having a little fun. Then I asked if he thought his little bit of fun was worth it.

"Yes, we can just get a new ATV," he said, smiling. His smile faded when I asked if a fellow Airman who may be home with his family after a long deployment would like to take his place if the bumps and bruises were a little more serious.

"No," he replied. Could he fix the ATV that he just broke? "No," he answered again.

Did he know that the unit is currently strapped for cash and could not replace the alert vehicle smoking next to us, which is no longer available for alert?

"No," he said for the third time. In fact, we would not have the money until next fiscal year, which was four months away, and then we would have to bump something else off the budget during that fiscal quarter.

The problem is that the Air Force cannot afford to simply "get a new one." Because of this, we all need to take care of the gear that we have. If something is broken, we may need to mend it ourselves.

It was my mistake for not pushing the big picture out to my guys earlier than this point and for allowing such a mindset to exist up until then; in truth, I have had the same thoughts in the past. Today, I think of how I can maintain my equipment to prevent breakage. If I had to, I would personally fix the gear I do break.

Most of the time, if you have to think whether something is worth doing or not, it is probably not. Do not do it; instead, do something that will not damage you, others or Air Force equipment.

Take care of your gear and your unit. Our Air Force will be all the better because of your responsible decision.

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

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

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

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

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

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

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

Doing one's best remains guiding principle of Air Force's first female 4-star general

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

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Through a more than three-decade career punctuated by differing assignment locations, duties and ranks, Gen. Janet Wolfenbarger maintains that one constant has guided her career and will continue to as she transitions into her post as the service's first female four-star general.

"I approach my Air Force service now the same way I have throughout my career, with the aim of doing the best job I can to accomplish the mission," the Air Force Materiel Command commander said.

This guiding tenet also undoubtedly led her through her time at the U.S. Air Force Academy, where in 1980 she graduated as a member of the first class with female cadets. Inspired to apply for the service academy after her father – then an Air Force major – arrived home from work announcing that women were eligible to do

so, Wolfenbarger submitted an application and got accepted.

Armed with her father's advice that life as a cadet would entail being "stripped of your rights and having them handed back to you one at a time," she also found her time there was one of profound growth. Encountering new challenges and pressures daily brought Wolfenbarger the opportunity to gain more knowledge about herself.

"The Academy put me in situations that stretched me – mentally, physically, emotionally and academically," she said. "I came out on the other side of those experiences knowing I am far more capable than I ever thought I could be."

Wolfenbarger's learning, both academically and professionally, would continue well beyond her time at the Air Force Academy. In 1985 she earned a master's degree in aeronautics and astronautics from the Massachusetts Institute of Technology, and in 1994 she earned a master's in



Gen. Janet C. Wolfenbarger is pinned with her fourth star by her daughter, Callie, and her husband, retired Air Force Col. Craig Wolfenbarger, during a promotion ceremony June 5 at the National Museum of the United States Air Force. The promotion makes Wolfenbarger the first female four-star general in the Air Force. (U.S. Air Force photo/Michelle Gigante)

national resource strategy from the National Defense University.

She began her career in acquisitions as an engineer at Eglin Air Force Base, Fla., and has held a variety of assignments at headquarters Electronic Security Command and Air Force Systems Command, one of the predecessor commands to AFMC.

The general has held several positions in the F-22 System Program Office, served as the F-22 lead program element monitor, and was the B-2 system program director.

She also commanded the Aeronautical Systems

Center's C-17 Systems Group, Mobility Systems Wing, and was the service's director of the Air Force Acquisition Center of Excellence at the Pentagon, then served as director of the headquarters AFMC Intelligence and Requirements Directorate here.

Wolfenbarger received her third star in December 2009 and became the Air Force's highest-ranking woman in January 2010. She served as AFMC vice commander from December 2009 to September 2011.

"Spending the bulk of my career in AFMC – and its predecessor Air Force

Systems Command -- has given me a clear understanding of the mission and an appreciation for the caliber of the workforce," she said. "It's also reinforced for me just how critical AFMC support is to the overall Air Force mission."

And she is grateful for the opportunities the Air Force has given her.

"I give the Air Force great credit for embracing diversity and allowing me and so many others to be part of a great team, not only at the Academy, but throughout my career," she said.

Wolfenbarger said that increased diversity in the

workforce benefits the Air Force as an institution.

"I've seen tremendous progress in the expansion of opportunities for women, just in the time I've been in service," she said. "The number of women has almost doubled, and 99 percent of all career fields are now open to women."

For the last two years, Wolfenbarger has been a key participant in the Joint Women's Leadership Symposium, where she has delivered keynote addresses and taken part in panel discussions about the relevance of women in the Department of Defense.

Though this newest AFMC commander will outline the command's priorities shortly after her change of command ceremony June 5, she acknowledges the challenges facing the command as the Air Force contends with constrained budgets and enduring missions.

"There has probably been no better environment in my time in the Air Force in which to put forth good ideas, and have those good ideas get a sound hearing so that we can collectively respond to our part of the budget challenge," she said.

"AFMC has already embraced finding ways to accomplish the mission more efficiently, while also preserving the welfare of our people – but we're not finished yet."

Local leaders attend change of command



Local members of the Air Force Materiel Command's Community Liaison Program were on hand for the AFMC change of command ceremony June 5 at Wright-Patterson Air Force Base, Ohio. Gen. Janet Wolfenbarger, center, became the first female four-star general in the Air Force and assumed command of AFMC from retiring Gen. Donald Hoffman. Pictured with Wolfenbarger are AEDC CLP members Jim Apple (far left), Brian Skelton (third from right) and Mike Niederhauser (far right). CLP is a group of about 40 people representing each of the 10 communities where AFMC has installations or major organizations. The purpose of CLP is to maintain strong ties between the Air Force and surrounding communities. (Photo provided)

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"During some of the most challenging and turbulent times for our Air Force, General Hoffman has inspired mission success," he continued. "Don and Jacki, thank you for your combined service to our Air Force, and for your very important contributions to our nation's security."

Hoffman said he would most miss the quality of the people one finds in the Air Force, and the unquestioned level of trust that Airmen exude.

"When you meet someone in the Air Force, you know they've taken an oath to defend the constitution and a pledge to live by core values of integrity, service and excellence," he said. "Thanks to all of our Airmen, it has been my good fortune to be part of the best Air Force in the world. It was the best when I joined it. It's smaller now, its missions have changed, but it's still the best. And I have total confidence that those who follow me will keep it the best Air Force in the world."

Hoffman, who had served as the commander of AFMC since November 2008, is retiring after 42 years of service.

After serving as the Military Deputy, Office of the Assistant Secretary of the Air Force for Acquisition at the Pentagon for the past eight months, Wolfenbarger becomes the eighth AFMC commander since AFMC stood up on July 1, 1992.

She will now lead a workforce of approximately 81,000 people and manage an annual budget of about \$60 billion.

Partnership helps military spouses find employment

By **Tech Sgt. Mareshah Hayes**
Air Force News Service

WASHINGTON, D.C. (AFNS) – As the wife of the Air Force Chief of Staff, Suzie Schwartz has the opportunity to meet with Air Force families stationed all across the country and around the world.

And when she does, one issue that comes up time and again is spouse employment.

During a recent interview, Schwartz said a relatively new program called the Military Spouse Employment Partnership is addressing the career challenges husbands and wives of active-duty military members face.

"The MSEP is really just about helping spouses find jobs," Schwartz said.

"It's teaming up spouses who need jobs with corporations and organizations that have jobs ... and offering résumé services and interview skills."

MSEP is an initiative derived from the Army Spouse Employment Partnership.

In January 2011, Presidential Study Directive Report-9 identified the need for a "unified federal approach to develop career and education opportunities for military spouses."

Based upon the success of ASEP, Defense Department officials expanded the program and opened it to spouses of Airmen, Sailors and Marines.

Spouses of any active-duty member can now take

advantage of the initiative through the MSEP Career Portal on the Military OneSource Web site at <https://msepjobs.militaryonesource.mil/>.

According to MSEP reports, approximately one out of four military spouses is unemployed.

Since MSEP's launch on June 29, 2011, more than 394,977 jobs have been posted by MSEP partners on the Web portal, and 20,529 military spouses have been hired by the program's partners.

"The saying goes that you enlist an Airman and you keep a family," Schwartz said. "We can't just give lip service that we care about these families. We really want to provide them some assistance."

"We're not saying that we're going to find them

a job for sure," she said. "We're saying we're going to ease some of those speed bumps and make it just a little bit easier because we want to keep these families."

A unique career obstacle that many spouses face is relocating with their active-duty husband or wife. According to MSEP officials, 77 percent of military spouses want or need employment opportunities, but find it difficult because of frequent relocations.

That includes those who move to remote and overseas locations where family members are allowed to accompany the service member.

"We move at the drop of a hat," Schwartz said. "If we were to network to find a job, that's six months maybe that you've

wasted, and we don't have that (kind of time). Many spouses actually need that money, and they don't have that connection in the local community.

"That's kind of what (MSEP) offers – some of that networking and assistance that you would have if you were living in a community for 15 years," she added.

The program falls under the umbrella of Michelle Obama's and Dr. Jill Biden's Joining Forces initiative and is backed by the U.S. Chamber of Commerce, she said.

As a military spouse herself, Schwartz said the efforts the Defense Department is making to improve the quality of life for families by assisting spouses who seek employment makes her "heart happy."



LAB from page 1

slight variations in the BTU content, the heating value, the densities and viscosities of the fuel,” Lock said. “Those will go into their power calculations.”

ATA Turbines Test Operations Section manager Mark Bymaster said AEDC engineers and the customers who come to AEDC for work depend on the lab’s analyses to ensure the fuel they’re putting into an engine has a uniform makeup that won’t impact test results. The data received is also critical to spotting problems early and heading off what could eventually become a serious and costly failure in an engine.

“I kind of relate it to going to the doctor and getting your blood taken,” Bymaster said. “They do that complete workup, and you get a little more visibility into what’s going on inside you versus just looking at the outside. That’s what we’re really looking for – early indicators.”

And Bymaster said the work is well done.

“They exhibit a lot of flexibility,” he said. “We call those guys all hours of the day and night, and usually if they’re not here somebody’s coming in on the weekend or at night if we have a problem. They’re very accommodating, and the quality of their work is very high. Customers have really come to rely on the Chem Lab and the results they produce.”

Outside of test-related functions, the Chem Lab also has a close relationship

with AEDC’s industrial hygienists. The lab helps hygienists determine if workers have been exposed to hazardous materials in the workplace.

“The Industrial Hygiene section here will put personal sampling pumps on workers, like a painter, to make sure he’s not being overexposed to solvents in the paint or paint thinners; or put a pump on a welder to make sure he’s not being overexposed to metals coming off the welding process,” Lock said. “They then take the samples that they collect from workers, bring them here and we analyze them.”

This aspect of what the Chem Lab does is one of its standout characteristics, because it is one of only three Air Force bases in the world that is accredited by the American Industrial Hygiene Association. Wright-Patterson AFB, Ohio, and Kadena AFB, Japan, are the other two. The accreditation allows the Chem Lab to monitor for worker exposure instead of sending samples off-base – which can be critical when it comes not only to worker health, but also delays to customer testing.

“The good part about that is if there are some workers in a test cell, for instance, and they’re doing a repair and come across a gasket and someone thinks it might be asbestos, they can send it over here and literally within minutes have an answer as to what it is,” Lock said. “If they had

to send that off, you have to figure at least a day to two days for transportation and another day or two for analysis. That could stop work.”

Environmental work is also a large part of what’s done in the Chem Lab. Analysts conduct tests to ensure that AEDC is in compliance with Environmental Protection Agency and state regulations for drinking water and for wastewater that goes off base. They also monitor contaminants in the groundwater, which are being cleaned up through an ongoing Installation Restoration Program.

And then there’s the detective work – the part of the job Lock says is the most fun.

“It’s the unknowns and unusual samples that really challenge them and really show off our capabilities,” Lock said.

The detective work begins when there’s a situation such as a worker in a test cell pulling a grease or an oil out of a component that can’t be identified, possibly due to the amount of time that has passed. It could be someone who suspects the wrong grease or oil was inserted during the lubrication process. It could be a puddle of mysterious liquid on the floor of a test cell.

That’s when a sample shows up at the Chem Lab in a bottle, smeared on a rag or on the end of a filter with an engineer asking “What is it?”

“That’s when the fun



Above, ATA Non-Destructive Testing Specialist Shannon Medley conducts a magnetic particle inspection of a turbine blade for cracks. Below, ATA Labs Section Manager Steve Ary uses a microscope to examine a threaded pipe bushing with a piece of broken tubing inside it in AEDC’s Met Lab. (Photos by Jacqueline Cowan)



begins,” Lock said. “Those are the kind of samples that make it challenging to get the answers back to them, so they can decide if it’s something they need to be concerned about.”

The fun comes in all forms – like the time a janitor sprayed what he thought was Formula 409 cleaner and realized the liquid in the bottle was not the cleaner. A sample of the liquid was rushed to the lab for analysis, where they determined that someone had replaced the 409 with some liquid hand soap and water.

“We get some good stuff here sometimes,” Lock laughed. And looking back, that may have been a humorous situation, but on a serious note, the ability to get instant results meant there was no stoppage in work or added costs incurred by sending a sample outside the center for testing.

With the capability to support so many different areas at AEDC, it may come as a surprise to learn that only eight people work in the Chem Lab. Advancements in technology throughout the years have streamlined the workload, so fewer people are doing more work and getting it done faster.

“One chemist now can operate many different instruments at the same time because of the automation, so that allows us to be more flexible and have more capabilities with fewer people,” Lock said.

On the metallurgical side of work done at the lab, four Non-Destructive Testing inspectors spend their days making sure the infrastructure of AEDC’s facilities is safe and work is being done properly. ATA Labs Section Manager Steve Ary said inspectors primarily focus on inspecting the welds in fabrications, but they also inspect plant equipment and incoming raw materials or fabricated parts.

Inspectors are also in charge of conducting in service inspections for the Pressure and Hazardous Material Systems program.

That work involves checking welds, pipe supports and insulation. The inspections are documented and then any deficiencies or required preventive maintenance is performed.

Inspectors have a wide variety of tools at their disposal for inspections, but they rely on one above all others.

“Mainly, it’s eyeballs,” Ary said. “That’s the most important one we have.”

Workers use their eyes when checking welds on site and are familiar with the proper welding procedures and materials. To do the job, they have to know their metals.

“We have about 150 active welding procedures right now,” Ary said. “You have different materials, for one thing. Then you have different welding processes – we pretty much use three. And then, of course, you have different base metals, different filler metals, and you use different standards for structural, piping and pressure vessels. Those are all different.”

In addition to having the experience to spot cracks or welding deficiencies, workers do have tools to find problems not visible to the naked eye. There are magnetic particle suspensions and liquid penetrants that can highlight the smallest cracks in materials when viewed under special light.

“I can show you parts where you would swear they didn’t have anything in them,” Ary said, “And you look at them under a black light and they’re cracked all to pieces.”

Radiography is also used to inspect piping and pressure systems. The Met Lab has several systems of varying sizes for standard mechanical testing and microscopic examinations, but the bulk of the work is electron microscopy. The lab’s electron microscope is capable of 150,000 times magnification, which Ary said is much more than the practical limits in material science require.

“You can look at fracture surfaces and find micro-features that give clues to

the mode of failure – if it’s a fatigue failure, a brittle buckle, or if there were pre-existing cracks, sometimes you can tell that,” he said.

The microscope’s digital signal processor forms an image through use of an electron beam, but it also has an auxiliary X-ray fluorescence detector. That means it can pick up the characteristics of a particular electron structure of that element, and the computer can determine what sort of material is being examined.

“That’s real handy for a couple of things,” Ary said. “One is I can go out to a piece of equipment and scrape just a few shavings off it and get a pretty good idea of what the material is without any harm to the part. It’s also very useful for identifying mystery things that we find in various compressors, pumps, pipes and that sort of thing.”

Then there’s the paperwork. The Met/NDE Lab provides documentation for all inspections, conducts qualification testing for welders and keeps track of their certifications. They also review subcontractor work to ensure that it’s up to the standards of AEDC.

It all adds up to a facility that is the backbone for much of the work that goes on at AEDC, and the experience and tools make it a successful one according to Walt Bishop, ATA’s Test Support Branch manager.

“Their combination of skill, experience and testing methods make AEDC’s Chem and Metallurgical Labs a very valuable resource for the continued operation of AEDC,” Bishop said.

Vince Chapman, the AEDC Support Asset Branch’s project manager for shops and laboratories, also said the functions provided by both the chemical and metallurgical sides of the lab are important to a wide range of base functions.

“The depth of knowledge in these areas is exemplary,” Chapman said. “They are true professionals in every sense of the word.”

AEDC Mission Support Division chief retires after long career

By Philip Lorenz III
Aerospace Testing Alliance

Col. Bobby Bender, AEDC's Mission Support Division chief, is retiring June 15, after an Air Force career spanning 27 years.

Bender joined AEDC's workforce in July 2008 after serving as the deputy chief of the Anti-Terrorism Force Protection Division at the Pentagon.

Col. Art Huber, vice commander of the Aeronautical Systems Center at Wright-Patterson AFB, Ohio, praised Bender and his contribution to the team at AEDC.

"Sometimes it is better to be lucky than to be good," Huber said. "In the case of Colonel Bender, I recognize that I and the Arnold community were very lucky indeed to have had the benefit of his leadership, enthusiasm and management talents.

"When I was AEDC commander, I had the responsibility to find the next Mission Support Group commander which, of course, turned out to be Bobby Bender. In perusing the career summaries of those available on the candidate's list, I was looking for someone who had the right mix of command, test, staff, operational and support experiences that would enable him or her to provide direction and understanding for the Mission Support Group role."

Huber added, "I think everyone would agree we found that perfect mix and hit the jackpot with Colonel Bender. He has been adept at projecting a strategic vision as well as providing oversight of the details. I probably most valued his innovative and practical bent.

"He challenged me with

his ideas and helped me immensely with his advice. He empowered his people, yet guided them to achieve more than they thought they could. He has been a mentor and model leader balancing the demands of his job with the needs of his family. Perhaps most of all he leaves the legacy of a place better now than when he arrived, which is the real measure of any man. We are all better off for having known and worked and played with Bobby Bender."

Bender, a Hollidaysburg, Penn., native, was commissioned in 1985 after completing Lehigh University's Air Force Reserve Officer Training Corps program and earning his bachelor's degree in chemical engineering.

Anyone visiting Bender in his office at AEDC would probably notice the photo of him posing with his family in front of a B-52 Stratofortress bomber as well as some other B-52 mementos.

Bender is particularly proud of his early assignments as a B-52 master navigator who flew more than 3,700 hours on the iconic aircraft which is still in service and undergoing upgrades.

He also is proud of his tours commanding the 40th Expeditionary Operations Support Squadron (OSS) during Operation Enduring Freedom and 5th Expeditionary OSS during Operation Iraqi Freedom.

One of Bender's collateral roles at AEDC has been to manage the Emergency Operations Center during emergency response exercises.

Dan Johnson, ATA Mission Support Division's Exercise Evaluation Team

chief, has worked with Bender for several years.

"Colonel Bender was the right person at the right time to help mature our disaster response force, especially the Emergency Operations Center (EOC)," said Johnson, who is a retired Air Force lieutenant colonel. "He epitomized the role of EOC director and modeled the job for others – we are better because of him.

"Under his leadership, everyone else stepped up and embraced their respective roles in the EOC. He relied on the functional experts to do their job and they delivered. He has a clear understanding of how to manage a crisis – thinking ahead, asking the right questions, and staying focused on supporting the Incident Commander on scene.

Johnson said Bender is one of those unique people who know how to be professional, but still find humor in the lighter side of any situation.

"He taught everyone to plan ahead, consider your options, think before you react and always find a way to enjoy the moment," Johnson said.

Bender said he has enjoyed the challenges of his position at AEDC.

"Since so much comes underneath this job, from civil engineering to roads and grounds, from cops, fire fighters and the computer systems to run it all, there are many challenges," he said. "Having the resources to maintain the old infrastructure and getting money to fix it is probably the biggest challenge – just balancing limited resources between operations and maintenance. Money for maintenance is money that



Col. Bobby Bender poses in front of a B-52H at Minot Air Force Base, N.D., with his wife Angela and their daughters, Madeline and Victoria in 2003. (Photo provided)

cannot be put into an investment project."

Bender said despite the economic uncertainties, he sees a bright future for AEDC.

"The military strategy has always been, 'defend a higher ground,'" Bender said. "That's why I always believe space is the higher ground. And to defend the higher ground you've got to fight from the higher ground. That hasn't changed in a long time and will be truer in the future.

"As Dan Marren (Tunnel 9 Hypervelocity Facility's director) says, 'the physics isn't changing.' That's where systems like arcs, space chambers, our Tunnel 9 Hypervelocity Facility will continue to contribute to the mission. What we put through it and how we put it through that environment is going to change. In my opinion it is going to get better. It's going to get more efficient."

Bender added, "I'm stealing another one of Dan's lines, 'the problem doesn't go away just because the calendar shows a later year.'"

Regarding emerging threats and the aerospace programs necessary to meet those threats, Bender spoke about the cycle of conflicts and funding.



Bender

"There is no doubt that after every major engagement there is a lull that follows," he said. "There will be a pull back of money from the nation for the military and we're seeing that play out. This will be followed by a rebuild.

"This nation will rebuild its military, it will retool its military and it will be different. It will be more lethal and involve intense engineering. Intense development testing is going

to occur over the next 10 to 20 years. We would be foolish to re-equip the nation with the same toys that we fought the last war with."

He added, "We should be working on better weapon systems and better tools. Why is AEDC important? The answer is simple, it's because we are going to develop those aerospace systems here. We are going to develop the propulsion

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as an advisor and that's why I am going back.

I was advised against volunteering for AFPAC Hands by virtually every senior officer and peer that I talked to about it. "You'll be out of the career field too long," "nobody will want you when you come back" or "it won't help you get promoted" were the common refrains. It's probably all true and I don't care.

I'm now learning Dari and preparing for my deployment. My Arabic back-

ground has proven very helpful and I've managed to be a better student of language the second time around. I think part of it is that I know how important it's going to be.

The memory of being immensely frustrated and at times scared by not being able to follow a conversation at a few very tense moments in the past has reinforced my desire to learn. It's entirely possible that I'll not speak much of it in my official capacity, but language pro-

vides insight into culture, into how people think and what is important in their lives. I could end up in a ministry, embedded at the operational level with the ANSF (Afghan National Security Force), or tasked to conduct village stability operations. Regardless of where I end up, nothing that I am going to do will likely change the outcome of this decade long conflict. But that doesn't mean that what I do won't matter.

The outcome of this war is for the most part, already

decided. The Taliban – though still present – will not return to power and al Qaeda has been strategically crippled and denied the freedom of movement and sanctuary that Afghanistan once provided. What remains to be seen is what Afghanistan will look like in 10 years, or 20. Can a return to civil war be averted? Can Afghanistan expand the writ of the state far enough to provide an acceptable level of security for its citizens and defend its sovereignty should it be

challenged? Can the gains of the last decade--modest as they may be--hold out in a society struggling after three decades of constant conflict? These are the questions I am thinking about. These are the next challenges Afghanistan will face.

Advisory work happens on the periphery. It's often unnoticed, unknown and certainly under-appreciated. Its focus is on the future, on helping someone else win the next war so we don't have to, or better yet,

preventing it from happening all together. It is in this absence of a phenomenon that you can see the success of an advisor. When something doesn't happen where the terrible was possible an advisor has likely made a difference. If 10 years from now Afghanistan is not front page news, I will have done my job as an AFPAC Hand and the Afghans will be doing theirs.

Editor's note: this commentary was reprinted with permission from the author.

National Weather Service members tour AEDC

By Consetta Woosley
Aerospace Testing Alliance

Members of the National Weather Service (NWS) recently visited Arnold AFB to understand the impact their services have on testing at the center.

ATA's Emergency Management Team worked very closely with both the Huntsville and Nashville NWS offices in order for Arnold AFB to attain the designation of "Storm Ready Community" in May 2011.

"Over the course of becoming 'Storm Ready' we at AEDC have developed a sound working relationship with both Nashville and Huntsville weather forecasters," said ATA Emergency Management Lead Daryl Justice. "They requested the tour, as they wanted to see the facilities they are providing their services to."

The entire process of becoming "Storm Ready" took six months, and AEDC is the only military installation in Tennessee with the designation.

"The experience working with AEDC has been wonderful," said NWS Nashville Warning Coordination Meteorologist Tom Johnstone. "They are committed to the safety of the employees and visitors. We have worked very closely with AEDC to get the base recognized as 'Storm Ready.' That is a testament to the relationship we have with AEDC and to AEDC's commitment to keep their employees safe."

The tour group consisted of seven employees from the Nashville NWS office and eight employees from the Huntsville NWS office. The Mach I Space Chamber

was of special interest to NWS Huntsville Warning Coordination Meteorologist David Nadler.

"I was very impressed with AEDC, in particular the Mark I Space Chamber, which tests weather satellites (like GOES-M)," Nadler said. "Obviously, these satellites have a direct impact on NWS operations and play a very important role in our day-to-day forecasts."

The group also toured the Aeropropulsion Systems Test Facility and Propulsion Wind Tunnel Test Facility.

"It (AEDC) is very impressive ... with a lot of things that tie back into what we do at the National Weather Service," John-



Phillip Lorenz, ATA Public Affairs, explains to National Weather Service employees the importance of the Propulsion Wind Tunnel Test Facility. (Photo by Jacqueline Cowan)

stone said. "We see that a lot of the testing that is done is affected by the weather. There are safety factors go-

ing on and testing cannot be done in certain weather conditions, so it brings home to us the importance of what

we do in the National Weather Service and how our partners rely on the information we are providing."

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systems that power them at AEDC. We're going to develop the satellite sensors and components here."

Asked what he will miss most about AEDC and his Air Force career, Bender said the answer is simple.

"I will miss some incredible friendships that I've made and they will continue," he said. "AEDC has been good to me and my family - I'll miss it a lot. I'm going to miss the woods, running, golfing with the friends I've made, the whiskey and the laughter. You can work hard problems and still laugh while we work to solve them."

Bender's awards and decorations include the Defense Superior Service

Award, Defense Meritorious Service Medal, Meritorious Service Medal with one oak leaf cluster, Air Medal with two oak leaf clusters, Air Force Commendation Medal with two oak leaf clusters, Air Force Achievement Medal, Air Force Combat Action Medal, Afghanistan Campaign Medal with one bronze star, Iraqi Campaign Medal with one bronze star, Air Command and Staff College Dean's Award for Research and Excellence in Airpower Application and Squadron Officer School Distinguished Graduate. He also belonged to the Phi Alpha Theta (history academic honor) Society and earned the Eagle Scout award from the Boy Scouts of America.

Giving back to the community



ATA's Employee and Community Activities Council (E&CAC) recently made a donation to the Coffee County High School Skills USA program. Skills USA is a national program that supports trade and industry students within career and technical education. Pictured from left are Charles Jones, Kirsty Brown, E&CAC Civic Committee Chairman Becky Combs, Skills USA advisor Mindy Acklen, Skills USA state parliamentarian Leia Hudson and Colby Welch. (Photo provided)

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professional leadership in the development and successful transition of state-of-the-art diagnostic systems, analysis methods and test methodologies in support of AEDC's contribution to weapon system development.

David C. Bond

David Bond arrived at AEDC in 1978 to serve as the Air Force project manager for the Test Instrumentation System (TIS) project. He was responsible for developing and installing the \$30 million data acquisition and processing system for the Aeropropulsion Systems Test Facility, then the free world's largest turbine engine test facility.

Throughout the years, Bond held a variety of positions at AEDC. As technical director for Communications and Computer Systems, Bond was responsible for a \$40 million upgrade of the center's data processing and communications network. He also served as chief of the Space Systems Division, chief of the Applied Technology Division and technical director of the Operations Directorate.

Bond went on from AEDC to serve as the deputy director for the Air Force Materiel Command's (AFMC) Operations Directorate, where his strong

advocacy for AEDC played a key role in increased funding for test and evaluation infrastructure. He later became executive director of the Air Force Flight Test Center at Edwards AFB, Calif., and finished his Air Force career as director of Engineering and Technical Management for AFMC. He continues to advocate for AEDC as a member of the Arnold Community Council.

Bond is being recognized for his outstanding career of leadership and service to the developmental test and evaluation mission of AEDC and the Air Force.

William T. Scott

From his arrival at AEDC in 1958 until his retirement in 1999, Bill Scott's talents were focused on innovations to ground testing that yielded not incremental, but revolutionary, improvements in AEDC heat transfer testing capabilities that have been acknowledged as world-class.

Scott developed a variety of heat transfer measurement sensors designed to solve specific customer requests. He had the leading role in the fundamental design, construction and calibration of the entire suite of von Kármán Gas Dynamics Facility heat transfer in-

strumentation that spanned a 42-year career at AEDC.

He was the sole developer and master of micro-miniature fabrication techniques performed under a microscope for many years. At the time of their development, none of the gages he manufactured were commercially available.

Scott was also a leader of

instrumentation technicians at AEDC, and he retired as Instrument Technician Master.

Scott is being recognized for outstanding contributions in leadership, sustained technical innovation and application of miniature heat transfer sensors to ground test facilities at AEDC.

The Fellows program was established in 1989 and recognizes AEDC individuals who have made exceptionally distinguished and substantial contributions to the nation's aerospace ground testing capability at the center.

Candidates considered for selection as either an AEDC Fellow or as an

AEDC Lifetime Achievement Fellow are current or retired military, civilian and operating contractor and subcontractor personnel assigned or previously assigned to AEDC.

The Fellows banquet will be held at the Arnold Lakeside Center. If you would like to attend, please call 454-6505.

AEDC's Mitch Turrentine volunteers with local PEN Foundation

By Philip Lorenz III
Aerospace Testing Alliance

Mitch Turrentine, an ATA Flight Systems Plant Operations engineer, is someone who has known what he wants out of life from an early age.

Turrentine first came to AEDC as a co-op student when he began pursuing his college education at Motlow State Community College. He soon transferred, first to Tennessee Technology University for one year and then completed his bachelor's degree at Tennessee State University.

"I've always felt like I wanted to be a mechanical engineer and the co-op program allowed me to kind of do a little work in various areas," he said. "I enjoyed working in the plant and maintenance area and that was it."

Turrentine said his professional interests became established when he was in grade school.

"Throughout grade school, I've always enjoyed math and science," he said. "Probably math was my favorite course throughout grade school and then [at] South Middle School.

"I had some excellent science teachers, so math and science has kind of always been my thing."

From the beginning, AEDC impressed Turrentine, who was hired as a test engineer at the Mark I Space Chamber in 1990.

"[AEDC] was kind of amazing, no doubt it's a unique place," he said. "Its mind boggling actually – the massive size of the equipment and unique stuff out here. The large wind tunnels and Mark I which goes three or four stories below ground – that's what caught my attention, there's nothing small here."

Along with his passion for science and math, Turrentine has also had a long-standing interest in giving back to the community.

Volunteerism has been close to Turrentine's heart for a long time, according to those who know him best.

Four years ago, Dr. Tom Smith, the director of Graduate Medical Education at the Southern Tennessee Medical Center in Winchester, encouraged Turrentine to join a local non-profit organization called the Partner in the Education Network (PEN) Foundation.

"I was Mitch's family physician, delivering two of his daughters, during this time and got him on the board," Smith said. "Mitch has always been friendly, level-headed and [a] hard worker. He used to be a volunteer at the Sewanee Volunteer Fire Department."



Marilyn Graves, ATA project manager for the V-plant control systems upgrade, and Mitch Turrentine, an ATA flight systems plant operations engineer, review a V-plant drawing in preparation for the upgrade project. (Photo by Jacqueline Cowan)

Turrentine said despite the PEN Foundation's small size, the goals are not.

"The biggest thing that we have been doing is placing tutors in schools," he said. "We try to keep them in there year round. We'll also try to get tutors in there to help struggling students prior to TCAP (Tennessee Comprehensive Assessment Program) to prepare them for that. All this is done through donations."

Smith, describing the non-profit's mission, said, "The PEN Foundation operates under the charter of the Franklin County Foundation For Educational Excellence first chartered in October 1996.

"I came on the board in 2003 and was president from 2005-2009. This foundation was an outgrowth of the leadership class through the chamber of commerce. The establishment of the PEN Foundation qualified us for the governor's three-star award."

Smith said people like Turrentine are the life blood of the PEN Foundation.

"Volunteers are vital to the foundation since there are no employees," Smith said. "In the past we have sent more than 50 teachers off for professional developmental course work for which we received numerous thank-you's."

Turrentine, who is primarily responsible for operations in the von Kármán Gas Dynamics (VKF) Facility's 'V' plant at AEDC, is still impressed with the size of the facilities at Arnold.

Whether it is his profession or voluntary commitments, Turrentine takes his role seriously. He keeps busy ensuring the plant remains ready to support upcoming testing.

"Our primary equipment of course is the VKF compressor plant," he said. "We have 10 stages of compression here and we produce air at 4,000 psi. Everything here is large."

Marilyn Graves, ATA project engineer for the V-plant control systems upgrade, described her coworker as someone who is patient and thinks things through.

"Mitch is honest, hard-working, and professional and exemplifies someone with a good work ethic," she said. "He never shuns work, but on the contrary, takes on work that others may find too challenging.

"Mitch is very knowledgeable of the VKF plant and it is to him that we request information from and learn from. He freely shares his knowledge and experience, making everyone the better for it. He respects the opinions of others, but can stand firm when he knows he is right. Mitch can make a decision."

Smith emphasized that Turrentine's involvement with the PEN Foundation also reflects the engineer's focus on his own family.

"Mitch's daughters have all gone through our public schools and he understands the need to enhance public education," Smith said.

Turrentine is pleased that his youngest daughter, who is 13, is already showing an interest in science.

"Last year she won the first place overall at South's science fair and this year she placed second in physics," he said.

Turrentine was hoping to return to school to complete a master's degree, but work, volunteering at the PEN Foundation and family are his priorities.

"Once they [his daughters] came along I just didn't have time to complete that masters," he said.

Turrentine said his commitment to education and promoting it in the community is one decision everyone can relate to, whether they have children or not, especially during today's uncertain economic climate.

Team AEDC takes an active role in 30th Mach Tenn Triathlon

By Philip Lorenz III
Aerospace Testing Alliance

Close to 20 Arnold Engineering Development Center (AEDC) employees recently participated in the 30th Mach Tenn Triathlon, an event with many ties to the Air Force base where much of the swim-bike-run race is held.

"The Mach Tenn Triathlon originated more than 30 years ago," said Melissa Miller, the race's director and an Aerospace Testing Alliance (ATA) Instrument and Controls Services Branch project execution specialist. "Bob Alt, a retired AEDC engineer, was the driving force in getting the triathlon started. Sarah Liechty had an idea for a triathlon and mentioned it to Bob. Bob took the idea and ran with it – came up with the location and course."

"Bob Alt is still involved with the triathlon and has been an integral part of the event for its entire 30 years. He was the race director for several years and then turned that job over to others, but remains involved with much of the pre-race preparation and set up."

Miller added, "At the time that Mach Tenn was created in 1982, the sport of triathlon was very new – 1974 was when the first modern day triathlon was organized in San Diego."

Miller said the event originally included the three Olympic-length components, including a 1.5K swim, 40K bike ride and a 10K run.

"In 1997, Wattendorf [Memorial Highway] was under road construction and that part of the bike course was closed. So things had to be re-routed. In the re-routing, the bike course got shortened and it was decided to proportionally shorten the other two legs of the race."

"The race distances are currently 1.0K swim, 16-mile bike [ride], and four-mile run. Although a triathlon is normally an individual event, many people enjoy competing as part of a relay team."

She said the triathlon still presents a challenge to participants and she has witnessed a steady increase of interest in the event.

"The sport of triathlon is growing – a decade or so ago there were very few local participants in the race," she said. "Most of our folks were coming from an area bounded by Knoxville, Memphis and Atlanta. These days, with more participants and more races available, our participants typically come from a much smaller radius – Nashville, Chattanooga and Huntsville. We have seen an increase in the numbers of locals – which is nice."

Miller emphasized the importance of the event's sponsor.

"Our local Budweiser distributor has taken a very active role in the triathlon," she said. "More importantly, they have been the primary or only sponsor of our annual Turkey Trot run that the Air Force Company Grade Officer's Council hosts every year for at least the last 15 years."

She added, "We are lucky to have group of very loyal participants. If you look at the results over the years you begin to see the same names time after time. Certainly Kevin Sipe and Eric Bjorn are included in that. There are three folks who have done the race 29 of the 30 times it has been run. One of those is Dale Smith, who is a retired test engineer from PWT [Propulsion Wind Tunnel facility]."

Kevin Sipe, AEDC's Capability Integration Branch specialist, acknowledged he was initially reluctant to take part in the event.

"Bill Gray decided he wanted to do a triathlon before he turned 50 and thought I would be interested in doing one, too," Sipe said. "I wasn't initially interested, but Bill Gray convinced me to do it. I'm 58 now, so I guess I have been doing them for nine years. I usually do the Mach Tenn. Triathlon since it is a local event and



Eric Bjorn prepares to begin the 2012 Mach Tenn Triathlon with Dave Ruckstuhl next in line. Bjorn finished 4th out of 21 in his age group and Ruckstuhl went on to swim a top-10 time out of over 350 competitors. (Photo provided)



Some of the 2012 Mach Tenn award winners pose for the camera, including (back row, l-r) Eric Bjorn, Bill Gray, Dan Johnson, 1st Lt. Brad Chronister, Tony Pennington, Steve Lovett, Sarah Lovett, Paula Sanematsu, overall winner Tiago Barreiro and Rick Orzino; and (front row, l-r), Mark Johnson, Jon Neal and John Spurlin. (Photo provided)

I know many of the participants. Also, in my opinion, it has the best venue and it is the best run triathlon that I have experienced."

Eric Bjorn, chief of AEDC's Strategic Planning Branch, credits the success and popularity of the Mach Tenn Triathlon to other committed athletes who enjoy sharing the challenge of being a multi-sport athlete.

"There are some big-time triathletes on base, including Dave Ruckstuhl and Tony Pennington, who

have both done one or more full Ironman races," Bjorn said. "Triathlons are one of the fastest growing sports in America. I love the challenge of training for a multi-sport event and transitioning from one sport to another during the actual race."

"In triathlons, they group participants by age, sex, and even weight, so you can compete against your peers and older, bigger guys like me can place."

Bjorn recalled how he got involved in the local triathlons.

"As for me, I was taking a bicycle spin class at AEDC back in 2006," he said. "I realized it had been 20 years since I did my first and only triathlon while stationed in California."

"I knew the Mach Tenn was coming up and I decided to go for it and started an abbreviated training regimen. I expected triathlons to be a once-every-20-years thing for me. But

the race, the venue, and the people were so great, and I had so much fun that I was hooked."

Bjorn added, "I've done the Mach Tenn seven times in a row now and do about five triathlons per year. This year, the 30th anniversary of the Mach Tenn fell on the exact date as the 30th anniversary of my graduation from the Air Force Academy. It made for a special day and I wore my Air Force Academy T-shirt to celebrate."

Air Force launches first special tactics wing to meet evolving needs

By Rachel Arroyo
Air Force Special Operations Command Public Affairs

HURLBURT FIELD, Fla. (AFNS) – U.S. Air Force Special Operations Command stood up the 24th Special Operations Wing in a ceremony at Hurlburt Field, Fla., June 12 to meet the growing demand for the unique capabilities special tactics Air Commandos provide.

AFSOC commander Lt. Gen. Eric Fiel said creation of this new brand of wing better prepares the special tactics community to meet the swiftly evolving requirements of a global special operations forces partnership.

"While the pace of global special operations has been demanding throughout this past decade, we cannot expect to slow down over the next," he said.

It is this pace that makes the activation of the 24 SOW so monumental.

America has been at war running operations for more than a decade with a volunteer force, Fiel said. The special tactics Airmen who have been a constant presence in these operations comprise less than half of a single percent of the population.

In assuming command of the 24 SOW, Col. Robert Armfield recognized the magnitude of what is being asked of his Airmen and what they are accomplishing under a highly demanding operational tempo.

Since Sept. 11, special tactics Airmen have been awarded five Air Force Crosses, 29 Silver Stars, 217 Bronze Stars with Valor and 96 Purple Hearts.

The special tactics career field is among the most decorated career field in the Air Force, Fiel said. But more notable is the fact that almost every month, one special tactics Airmen is critically wounded or killed.

We've got to be able to look the fathers and the mothers, the wives and the husbands, and the kids straight in the eye and tell them we have done everything possible to make them successful in battle and bring them back," Armfield said. "That's what this new wing is all about."

The 24 SOW will be successful, he added.

"Our challenge now is to take this investment that you've made in resources and turn it into combat



Air Force members gathered at Freedom Hangar for the 720th Special Tactics Group change of command and the activation of the 24th Special Operations Wing on Hurlburt Field, Fla., June 12, 2012. Col. Robert Armfield relinquished command of the 720th STG to Col. Kurt Buller then assumed command of the 24th SOW. (U.S. Air Force photo/Airman 1st Class Christopher Williams)

capability for the AFSOC portfolio, and we're going to do it," Armfield said.

The mission of the 24 SOW is to provide special tactics forces for rapid global employment to enable airpower success.

"Establishment of the 24th Special Operations Wing allows a single commander to lead the recruiting, training and development of our special tactics warriors and ultimately

provide combatant commanders with world-class Airmen to accomplish their mission," Fiel said.

By creating the 24 SOW, not only is a single special tactics commander enabled to lead, but pressure is alleviated by removing the responsibility of logistical planning from the groups so they can concentrate on the operational mission.

Capabilities of the Wing include airfield reconnais-

sance, assessment and control.

Special tactics Airmen also engage in joint terminal attack control, personnel recovery, weather and environmental reconnaissance.

The 24 SOW, activated June 1, will comprise the 720th Special Tactics Group and the Special Tactics Training Squadron based at Hurlburt Field, Fla. The 724th Special Tactics Group, Pope Field, N.C.

and 16 recruiting locations will also fall under the wing.

The 24 SOW will be the third wing under AFSOC alongside the 1st Special Operations Wing located here and the 27 Special Operations Wing at Cannon Air Force Base, N.M.

With Armfield's promotion to commander of the 24 SOW, Col. Kurt Buller assumed command of the 720 STG.

AEDC's Rita Bell retires after a long and rewarding career at Tunnel 9

By Philip Lorenz III
Aerospace Testing Alliance

Rita Bell, the data reduction and computer software mathematician at AEDC's Hypervelocity Tunnel 9 facility in White Oak, Md., is retiring after a long career spanning more than 40 years.

"Rita Bell was a member of a three-person data reduction team at the Naval Surface Weapons Center White Oak Wind Tunnel Complex when I arrived at work in 1984," said Dan Marren, Tunnel 9's site director. "While I learned my trade as a journeyman test engineer, I developed an understanding of what it took to make a successful project and very quickly understood that this team of

highly intelligent and actually very nice women – all three were female – were the keys to a well executed wind tunnel test."

Marren said Bell was a core member of the team during his whole time at Tunnel 9.

"Rita would instruct me as to the steps I needed to accomplish and the people I needed to work with to make my project successful," he said. "Insights into personalities of other team members and tricks of the trade were imparted as well. I owe Rita for helping me avoid several 'land mines' over the years."

Marren said Bell wrote most of the code, which on those early years were on punch cards.

"Rita was singularly responsible for ensuring our reduction code kept current with the times," he said. "She took us through FORTRAN and eventually into MATLAB where it exists today with GUI (graphics user interfaces) and some very customer-friendly attributes that make the job of our technical staff more effective and efficient."

Bell retired from the government after a full career and agreed to stay on with ATA where she worked "another full career."

Marren said, "She is still the only person in the world who has been able to push the run button of Tunnel 9 – without the five years of operator training as she did for our 3,000th test run."

Marren said Bell's impact on her coworkers extends well beyond her professional attributes.

"On a personal side, Rita never missed an opportunity to raise morale around the site by frequently donning appropriate 'costumes' for Halloween, Easter, Christmas and no hallmark holiday would ever be complete without the 'Rita touch,'" Marren said. "I for one am extremely grateful in having the opportunity to learn from many of the original Navy folks at Tunnel 9 – Rita included – and my daily work ethic and demeanor contains residue from those times."

"Rita plans a rich retirement in the things that matter. She intends to continue



Rita Bell, the data reduction and computer software mathematician at AEDC-managed Tunnel 9 in White Oak, Md., has retired after a career spanning more than 40 years. (Photo by Philip Lorenz III)

to enjoy life and family and I'm sure we will be graced with her presence from time to time as we have particular

White Oak milestone celebrations. Maybe she can push the button for our 5,000th test run."

CSAF: Balance required to keep force effective, efficient

By Tech. Sgt. Richard A. Williams Jr.
Air Force Public Affairs Agency

ARLINGTON, Va. (AFNS) – The Air Force chief of staff reinforced the importance of avoiding a "hollow force" to a group of

civic and industry leaders attending the Air Force Association's monthly breakfast here June 11.

Gen. Norton Schwartz

said the Air Force must secure the proper balance between three separate but closely related dimensions: readiness, modernization and force structure.

"A shortfall in one or more of these dimensions

leads to insufficiencies that also are distinct but intertwined – respectively: a hollow, aging, and poorly postured force," Schwartz said. "This complex interplay is why the oft-referenced 'delicate balance' is so difficult to achieve."

For the Air Force, an important part of achieving this balance is ensuring it has the right mix of active duty, Air National Guard and Air Force Reserve Airmen and force structure, Schwartz said.

To that end, Air Force leaders in all three components worked together on the fiscal 2013 budget request and related strategic

planning to understand the compromises that can and must be made to maintain an effective, efficient force, he said.

"Despite the fact that we did not always agree with complete unanimity, which is understandable due to different perspectives and institutional imperatives between the active and reserve components, we stand by our consensus – together," the general said.

The Air Force's plans to re-balance the force are needed in order to address the danger of unsustainable deployment rates by any one component, Schwartz said.

"Our reserve component is best optimized – or, put another way, our reserve component affords us with the oft-referenced cost savings – when Guard and Reserve Airmen are deployed at lower rates than their active-duty counterparts," the general said.

Therefore, the Air Force's current force structure needs to be re-optimized in relation to current realities and future eventualities, he said.

"Through careful, joint-sanctioned modeling, we determined that we could not sustain further active

See CSAF, page 12

MIA bracelet connects Airmen across decades

By 2nd Lt. Sara Harper
82nd Training Wing Public Affairs

SHEPPARD AIR FORCE BASE, Texas (AFNS) – Twenty-two years ago, Air Force Academy cadet Amy Santmyer, now Lt. Col. Amy Young, decided she would wear an MIA bracelet honoring Lt. Col. Charles Walling, an F-4C Phantom pilot who was shot down Aug. 8, 1966, during a close air support mission in the Dong Nai province north-east of Saigon, Vietnam.

“MIA bracelets were developed in the 1960s as a way to ensure that fallen service members who are still missing were not forgotten,” Young said. “I thought it was a very fitting

tribute for any particular individual that no matter what else goes on, by wearing an MIA bracelet you ensure that at least one person will remember that individual who’s missing, and keep the faith and not give up hope that they’re going to come home.”

Young has been one of those people for Walling, who left behind a pregnant wife and a 2-year-old son after volunteering as a replacement pilot with hopes of returning home in time for the birth of his second son. His body was not found, which left unanswered questions and a lifetime without proper

closure for his loved ones.

But in a remarkable turn of events, Young – now with the 80th Operations Group here – will lead a four-ship Missing Man flyover June 15 honoring the fellow Airman whose name she has worn and remembered for more than two decades.

As the chief of the scheduling division and a T-6 instructor pilot, Young oversees the 80th Flying Training Wing’s flight orientation program, coordinating support and approval for aerial events and flyovers.

Young said periodically the Air Force watch cell at the Pentagon sends out requests for volunteers to support upcoming funerals



and memorial services.

“On the day this particular request came in, I just happened to be at my computer and the one to open

the email,” she said. “As I was scrolling through the attachment, I immediately recognized the name: Lt. Col. Charles Walling.

“I was absolutely shocked to see his name,” Young said. “As soon as I processed that he had been recovered, I immediately started making phone calls to confirm that they had actually found him and brought him home.”

She immediately initiated the approval process for the flyover, routing it through her chain of command.

Within 24 hours the flyover was approved. The 80th Flying Training Wing’s leadership’s decision was quick and easy: “Absolutely. Let’s put him to rest properly.”

It was a surreal moment for Young.

She had always intended to return the bracelet to the family, but not in her wildest dreams did she think she would have the opportunity to help lay him to rest.

“Never would I have imagined to have been fortunate enough to be in a position to be able to do something like this for the family, to help lay him to rest the right way and in an honorable way and to show some tangible thanks from a grateful nation,” Young said.

Walling’s funeral will have full military honors and a four-ship missing man flyover of T-6 Texans led by Young. But Young also wanted to offer the Walling family her MIA bracelet so they could lay it to rest with him if they wanted to. So, she contacted the family.

The Walling family was thrilled to hear from Young, for they share a special bond. Now Young will be traveling not only for the flyover, but will attend the visitation and the wake with his family as well.

As a combat pilot herself, Young has always found great comfort in the fact that even if something unspeakable were to happen, without a doubt she knew that her country

would come looking for her.

“One of the greatest commitments our country has made that people may not be aware of is that we will not leave a fallen Soldier, Sailor, Airman or Marine behind, and this story is a testament to that fact,” Young said. “That after 46 years we finally brought this particular Airman home, to his family. And the entire time that the family was waiting, they were not waiting alone.”

The Joint POW/MIA Accounting Command’s entire mission is to search for, recover, and identify missing service members from past conflicts so that their families can lay them to rest.

“I can’t imagine sitting in that awful reality for 46 years of knowing that your loved one is gone but you can’t put them to rest, so you don’t have any closure,” Young said. “But we are finally able to give this family some closure because of the efforts of JPAC.”

When asked how she felt about Walling finally being brought home and the opportunity to participate in his homecoming, Young’s answer was simple.

“I’m absolutely thrilled for the family. To be able to give them closure is tremendous and I feel honored to be a part of that,” Young said. “We can honor his service and sacrifice but also the service and the sacrifice that his family has made for the past 46 years.”

Young has learned a lot from this whole experience and wanted to leave a message of hope for those families who are still waiting on loved ones to return.

“I think my biggest take away from this whole experience is that people and families who are still waiting and don’t have that closure yet – they should remember and know that they are not alone,” she said. “There are men and women working tirelessly to bring them home, and people wearing bracelets keeping the faith with them every day.”

CSAF from page 10

component cuts without jeopardizing the collective ability of the total force to support our nation’s strategic interests,” Schwartz said.

As the Air Force rebalances, it will leverage its total force integration efforts by increasing the number of associations between the active duty and Reserve components, thereby enhancing all aspects of mission readiness and effectiveness, he said.

“Our (total force integration) associations provide us with the ability to utilize highly experienced Reserve component Airmen in helping to acceler-

ate the maturity of their active component counterparts quicker,” Schwartz said, citing one example of how such associations benefit the force.

When these associations are operated properly, total force integration will create efficiencies for the Air Force, saving in operational and overhead costs across the board, the general said.

“Be assured that, as a total force, we are united in a common cause to provide more effective and efficient air power, including military support to domestic contingencies and civil authorities,” Schwartz said.

AF Housing website offers information for moving Airmen

By Danny Monahan

377th Air Base Wing Public Affairs

KIRTLAND AFB, N.M.—A new website was recently launched to help Airmen access information about Air Force housing.

The Air Force Housing website, www.housing.af.mil, provides standardized information about

unaccompanied, base and local housing available at each Air Force base.

“This site is a one-stop shop,” said Teri Beckett,

Kirtland AFB Housing Management office, Capital Asset manager. “Airmen arriving at Kirtland

will use www.housing.af.mil, as well as Airmen relocating to other bases. This will help streamline the PCS process, instead of each base having its own web page or factsheet.”

The website also offers links to several other sites, such as www.move.mil, which assists Airmen with

shipping household goods, and www.defensetravel.dod.mil, which helps Airmen with travel arrangements.

“The new Air Force Housing website has a frequently asked questions section, addressing the concerns Airmen have when moving to a new

base,” said Beckett.

Each base is listed on the Air Force Housing homepage.

“Once Airmen click the Kirtland AFB link on the home page, they can view photos and floor plans of the housing available here,” said Beckett. “There is also information about

Albuquerque’s amenities, utility companies and school districts.”

Airmen moving to a new base should use the site as a resource, and are encouraged to contact the base housing office at their gaining installation for more information, said Beckett.

Former AEDC employee, well-known local artist Don Northcutt remembered

By Philip Lorenz III
Aerospace Testing Alliance

Manchester resident Don Northcutt, a well known local artist who came to AEDC in 1952 to work as a technical artist, has died.

For 40 years, Northcutt rendered scenes of Middle Tennessee into timeless images that will preserve old barns, country stores, train depots and homesteads long after they've been torn down or faded into history.

AEDC's Vickie May and Janice Willis said more than 20 years ago one of Northcutt's drawings became "the gift" presented to all of AEDC's civil service and active duty employees upon their retirement.

May, AEDC's protocol officer at Arnold for more than 20 years, never met Northcutt but said the significance of his artwork went beyond monetary value.

"When a person comes to me planning a retirement, one of the first things they ask is 'will I get the Northcutt print?'" she said. "It's that special. It represents AEDC – it has the test

facilities in the background and it has the wildlife. It just captures the spirit and essence of AEDC, of why AEDC is so unique and special.

"We mat and frame it and it's hanging on many walls all over the country."

The following inscription is on the back of every Northcutt print presented to AEDC's DOD and active duty retirees:

"This drawing illustrates the Arnold Engineering Development Center – a unique blend of nature and technology.

The Canada Geese and White-Tailed Deer in the foreground are only two of the many species that flourish on AEDC's 40,000 acres of Middle Tennessee woodland. In the background, beyond the retention pond used to clean cooling water before it is released to a 4,000-acre reservoir, stands the J-4 altitude rocket motor test cell. The J-4 is one of 40 test units, many of them unique that are used to test and evaluate the nation's future aerospace systems.

AEDC's complex of test



Don Northcutt presents the first copy of what became "the retirement print" for outgoing active duty and DOD personnel at AEDC to Col. Stephen Condon, who was the AEDC commander from 1986 until 1989. (File photo)

units makes it the largest and most advanced test center in the world."

Janice Willis, an Information International Associates graphics illustrator at AEDC, worked with Northcutt from 1975 until he retired.

She said Northcutt did large, precise drawings of all of AEDC's test cells, space chambers, arc heater facilities, wind tunnels and rocket motor testing facilities during his career.

However, what she remembers most about him is the type of person Northcutt was and why that was significant.

"He was very laid back,

a fun person," Willis recalled. "I'm telling you he was a character."

Willis said Northcutt's work is enduring, iconic and "awesome."

"I still have drawings that he created and David Hiebert, AEDC's historian, does too," she said. "I have some of his work at home."

Among the rural and small-town scenes Northcutt rendered in pen and ink drawings are old railroad stations.

"I have all the old railroad station [prints], since my husband worked on the railroad," Willis said. "Most of his artwork, he would frame it in old wood-

en barn-looking wood."

She said Northcutt preserved history for everyone to enjoy.

"Many of those old railroad stations have been torn down," she said. "They don't exist."

Northcutt served as the Coffee County Commissioner for 20 years and also refereed high school baseball, basketball and football games.

The Viola, Tenn., native moved to Manchester in 1940 and worked for the state as a surveyor. He then went to work at AEDC as a technical illustrator before retiring in 1988 after 36 years. His first art showing was in 1972 at Old Stone Fort Art Show in Manchester.

Northcutt sketched "thousands" of scenes of life and places throughout Coffee County and surrounding counties.

Mike Northcutt, ATA's outage coordinator, is Don Northcutt's son. The younger man said his father's passion for drawing, during his career at AEDC or the artwork he produced and sold at art shows around the country, was the same.

"He just touched many lives with so many different kinds of drawings; he did old buildings, people, old home places and animals," Northcutt said. "He drew thousands of them.

"And then going to art

shows, they would just swarm at his booth, there was always a line."

The last picture Don Northcutt drew was in October 1994 and he didn't finish it – a drawing of Cedar Lane Market in Tullahoma.

Mike said his father's rapport with friends, or people he had met for the first time, was consistent.

"He never met a stranger," he said.

Later in life Don was diagnosed with macular degeneration, a medical condition which results in a loss of vision in the center of the person's visual field.

Mike said his father took his condition in stride, even after it progressed to where he could no longer do his artwork.

"One thing I told the preacher who preached at his funeral, he never complained after he lost his eyesight," he said. "He always said he could find somebody worse off than he was."

Over the years, Northcutt traveled with his wife Carolyn throughout the United States participating in art and craft shows.

Mike said he knows that some of his father's artwork went to all 50 states in the U.S. and is known to be displayed in Germany, England, Japan, China, Australia, Yugoslavia and Russia.



This is Don Northcutt's "iconic" print that has been presented to retiring AEDC government civilian and active duty personnel for more than 20 years. It features Canada geese and white-tailed deer in the foreground with the J-4 altitude rocket motor test cell in the background. (Illustration provided)

Arnold Golf Course 454-7076

Check us out on Facebook! Arnold AFB Services 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.

The **Arnold Tri-City Medal Play Championship** will be held July 21-22 with an 8 a.m. shotgun start. The field will be flighted depending on the number of participants. Second round play will be flighted based on first round scores. Second round score improvement limit will be 7-15 percent as determined by the Tournament Director. Percentage of improvement limit will be drawn at completion of second round. Prizes will be awarded in each flight. Open to the first 72 players to sign up. Priority for riding carts will be given as applications are received. Payment is required at time of registration. Deadline for signup is close of business July 19. Entry fee is \$50 for advanced green fee players and \$70 for others. Cart prices are not included. Price does include one free practice round during the week of July 15-20. For more information call 454-GOLF.

Arnold Lakeside Center 454-3350

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

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 applications due July 2. 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,

See BRIEFS, page H3

What Services activities are you eligible for?

The Services Division has many activities such as marina, camping, lodging, youth programs, trips, discount tickets, dining and barber shop. All of these activities and many more are available to the entire AEDC workforce, as well as all military including National Guard and Reserves. The only areas open to the public are the golf course, including Mulligan’s Coffee Bar and Grill, and Gossick Leadership Center. However, there may be special events open to the public by invitation of the AEDC Commander.

Being a government installation, government employees (military and DOD civilians) are eligible for more areas than contractors or other base affiliates such as UTSI, Arnold Community Council, AEDC Woman’s Club, Ascend Federal Credit Union, on base branch employees and AEDC Fellows. However, with Members First Plus membership other areas become available. (See Matrix)

Government employees include active duty of all branches, National Guard and Reserves, retired military and their family members as well as both current and retired DOD civilians and family members. All government employees are eligible to utilize all Services facilities.

While military and DOD civilians lead the eligibility chart, other base employees are recognized as valuable contributors to the success of the base mission. With that in mind, Services has prime operating contractors next in line of eligibility with access to all areas except Fitness Center. Members First Plus membership is required for prime operating contractor employees to utilize the Fitness Center. Retired prime operating contractor employees who are Members First Plus members at the time of retirement may keep their membership and remain eligible to

Services Usage Eligibility	Active Duty/Guard/Reserve and Dependents	Retired Military and Dependents	DOD Civilians (Including NAF)	Retired DOD Civilians	Prime Operating Contractors	Retired Prime Contractors w/ Membership	Arnold Community Council w/ Membership	UTSI Staff & Students w/ Membership	Ascend CU on base w/ Membership	AEDC Woman's Club w/ Membership	AEDC Fellows w/ Membership	General Public
Members First Plus Membership	●	●	●	●	●	●	●	●	●	●	●	●
Arnold Lakeside Center (ALC)	●	●	●	●	●	①	●	①	①	①	①	③
ALC Beach	●	●	●	●	●	①	●	①	①	①	①	●
Café 100	●	●	●	●	●	●	●	●	●	●	●	●
Barber Shop	●	●	●	●	●	●	●	●	●	●	●	●
Gossick Leadership Center (GLC)	●	●	●	●	●	●	●	●	●	●	●	●
Golf Course	●	●	●	●	●	●	●	●	●	●	●	●
Fitness Center	●	●	●	●	①	●	●	②	●	●	●	●
Fitness Intramural Sports	●	●	●	●	●	●	●	●	●	●	●	●
Marina	●	●	●	●	●	①	①	①	①	①	①	●
FamCamp	●	●	●	●	●	①	①	①	①	①	①	●
Crockett Cove	●	●	●	●	●	①	①	①	①	①	①	●
Dogwood Ridge	●	●	●	●	●	①	①	①	①	①	①	●
Equipment Rental	●	●	●	●	●	①	①	①	①	①	①	●
Auto Shop	●	●	●	●	●	①	①	①	①	①	①	●
Information, Tickets and Tours	●	●	●	●	●	①	①	①	①	①	①	●
Wingo Inn (Lodging)	●	●	●	●	●	③	③	●	③	③	③	●
Storage Yard	●	●	●	●	●	●	●	●	●	●	●	●
Pavilion Rental	●	●	●	●	●	●	●	●	●	●	●	●
ALC Beach	●	●	●	●	●	①	●	①	①	①	①	●
Crockett Cove 1	●	●	●	●	●	①	①	①	①	①	①	●
Crockett Cove 2	●	●	●	●	●	①	①	①	①	①	①	●
Family Member Programs	●	●	●	●	●	●	●	●	●	●	●	●
Camp Adventure	●	●	●	●	●	●	①	①	①	①	①	●
Youth Open Recreation	●	●	●	●	●	●	●	①	①	●	●	●
Youth Events	●	●	●	●	●	●	●	①	①	●	●	●
Special Events	●	●	●	●	●	●	●	●	●	●	●	●
Children's Christmas Party	●	●	●	●	●	●	●	●	●	●	●	●
Tops In Blue	●	●	●	●	●	●	●	●	●	●	●	●

- Members First Plus Membership required
- No access to running trail and track
- By invitation of the installation commander

Current as of June 2012. Subject to change without notice.

use all areas except Fitness Center. Due to security measures for base access, retired prime operating contractor employees are not eligible for Fitness Center. Retired prime operating contractors that were not Members First Plus members at the time of their retirement must become Arnold Community Council (ACC) members to become eligible for membership. For

questions about ACC membership contact Claude Morse at 247-5151 or visit arnold-communitycouncil.com.

ACC members are next on the eligibility chart being authorized to use the Arnold Lakeside Center and with Members First Plus membership, eligible for all other

See ELIGIBLE, page H2

Extended stays available at FamCamp

The FamCamp is a wooded area off of Northshore Road on the banks of Woods Reservoir with tent and RV camping. Amenities include bathhouse with shower, barbecue grills, fire rings, lantern hangers, boat launch pad, picnic and beach area, covered pavilion as well as washer/dryer service and boat docking service.

There are 18 tent sites and 36 RV sites, 15 of which are pull-through. All RV sites are equipped with 30 and 50 amp 115V service.

Daily rates for RV camping are \$20 during the summer and \$15 during the winter (November-April). Did you know that you can stay for up to three months at FamCamp? Monthly rates are \$450 during the summer and \$400 during the winter. Sites 27-36 are designated for extended stays. Extended stays are only allowed in three month increments and there must be a one month gap between stays. Reservations may be made up to 45 days in advance for active duty, National Guard and Reserve military. Reservations may be made up to 40 days in advance for military retirees and up to 30 days for DOD employees. All others may make reservations up to



20 days in advance.

Tent camping is available at \$7 daily. Washer/dryer service is \$2 and boat docking is \$5. A convenience store is open 12-4 p.m. Friday through Sunday May through October and open Mondays if in conjunction with a holiday weekend. Other camping is available at Crockett Cove and Dogwood Ridge.

Crockett Cove offers five rustic cabins with heat and air, mini fridge, microwave, front porch swing, grill and picnic table.

There is no running water but a bathroom is on site. The one- or two-room cabins rent for \$40/\$50 per day during the summer and \$30/\$40 during the winter. Dogwood Ridge consists of six travel trailers with water, sewer, electric and propane complete with deck, picnic table and chairs. The trailers rent for \$40 daily, \$75 for two days or \$200 per week. Extended three month stays are also available at these areas. Call Outdoor Recreation at 454-6084 for more details or to make reservations.

Missoula Children's Theatre

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 by 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 re-

hearsal 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 annual race between the Reptiles and the Mammals. A company of strolling actors attempts to tell the tale in classical fashion. The Hare’s weaselly 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. Philof 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.

Membership Drive Finale Event July 13: Olympic Team Night with Cookout

The Membership Matters Membership Drive will end July 13. In recognition and appreciation to all current members and those who have joined during the drive,

an Olympic Team Night with Cookout has been planned. All members will eat for free at the barbecue cookout which includes hamburgers, chicken legs, potato salad,

baked beans and dessert. Nonmembers and guests may attend for \$9.50. There will be games so come ready to participate.



Horizon is a Services Division publication designed to inform our customers of events and specials in Services Division activities. All program dates, times and prices are subject to change. Services Division mailing address is at 100 Kindel Drive, Suite C321, Arnold AFB, Tenn. 37389-3321

Services information written and provided by Tanya Heggard

This Services supplement is published by *The Tullahoma News*, a private firm in no way connected with the U.S. Air Force, under exclusive written contract with Aerospace Testing Alliance (ATA). This supplement is an authorized publication for members of the U.S. military services. Contents of this supplement are not necessarily the views of, or endorsed by, the U.S. Government, the Department of Defense, the Department of the Air Force or ATA. Services Division is an exclusive area available to all AEDC personnel, active duty, retired military, National Guard, Reserve military and others as approved by the commander. Services activities include Wingo Inn (lodging), Arnold Lakeside Center, Outdoor Recreation (Marina, FamCamp, Crockett Cove), Golf Course, Family Member/Youth Programs and Fitness Center. Those mentioned above are eligible to use any Services activity during regular operating hours unless it is specified as a “members only” event. Membership remains a personal choice, however, only members are entitled to discounts and other benefits associated with membership.

Services Division Phone Numbers

Area code 931 DSN 340
 Services Chief – 454-7779
 Services Deputy – 454-5915
 Community Services Flight Chief – 454-4062
 Complex Manager – 454-3367
 Arnold Lakeside Center (ALC) – 454-3350
 Arnold Lakeside Center catering – 454-3350
 Gossick Leadership Center – 454-4003

Hap's Pizza – 454-5555
 Cafe' 100 – 454-5885
 Membership Information – 454-3367
 Information, Tickets & Travel – 454-3303
 Fitness Center (FC) – 454-6440
 Outdoor Recreation (ODR) – 454-6084
 includes Marina, FamCamp, Crockett Cove & Dogwood Ridge

Recycling – 454-6068
 Family Member/Youth Programs – 454-3277
 Human Resources – 454-5481
 Marketing & Sponsorship – 454-3128
 Barber Shop – 454-6987
 Wingo Inn – 454-3051
 Golf Course (GC) – 455-GOLF (4653) or 454-7076
 Mulligan's Coffee Bar and Grill - 454-FOOD (3663)

July 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 ALC Scholarship entry deadline FC Boot Camp 6 a.m. FamY Camp Adventure week 5, 454-3277 FamY Soccer Camp begins, age 9-18, \$20, 9 a.m. FC Cycling Class 11 a.m. FC Yoga 11 a.m.	3 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	4 Café 100 Closed Barber Shop Closed FC Open 8 a.m. – 4 p.m., no classes ODR Open 8 a.m. – 6 p.m.	5 FC Open 8 a.m. – 4 p.m., no classes ALC Dinner & Movie Night "Mirror Mirror" PG dinner 5-8 p.m. movie 6:30 p.m.	6 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Prime Rib for Two, \$29.95 member, \$31.95 non, 4-9 p.m. ALC First Friday Jam IS BACK ON!!! 6 p.m.	7 ODR Archery Basics Class, 9 a.m., \$3, ages 10+, sign up by July 4, 454-6084 ODR Kayaking Class, 10 a.m., \$10, 454-6084 ALC Express Menu only, 5-9 p.m.
8 ODR FamCamp lake boat tour, \$5, campers only, 10 a.m., 12 p.m., 2 p.m.	9 FC Boot Camp 6 a.m. FamY Camp Adventure week 6, 454-3277 FC Cycling Class 11 a.m. FC Yoga 11 a.m.	10 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	11 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	12 FamY Missoula preregistration deadline, 454-3277 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "The Hunger Games" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	13 ALC Membership Drive finale event: Olympic Team Night with Cookout, members free, \$9.50 non FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Chaffin's Barn Dinner Theater trip, 4:30 p.m., \$55, sign up by Jun. 29	14 ODR Canoe Basics Class, 11 a.m. – 2 p.m., \$7, ages 12+, sign up by July 11, 454-6084 ALC Express Menu only, 5-9 p.m. ODR FamCamp outdoor movie for campers, "Big Miracle", 7:30 p.m.
15	16 FC Boot Camp 6 a.m. FamY Camp Adventure week 7, 454-3277 FC Cycling Class 11 a.m. FC Yoga 11 a.m. FamY Missoula auditions, 4-6 p.m.	17 FC Cycling Class 11am FC Karate 3 p.m. FC Zumba 4:15 p.m.	18 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	19 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Wrath of the Titans" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	20 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Catfish Plate, \$9.95 member, \$11.95 non, 4-9 p.m. FamY Missoula Children's Theatre presents "The Tortoise Versus The Hare", 7 p.m., open to public, \$10, \$5 age 3-5	21 GC Arnold Tri-City Medal Play Championship, 8 a.m., \$50/\$70, sign up by July 19, 454-GOLF ODR Cumberland Caverns Spelunking, 11:30 a.m., \$40, ages 10+, sign up by July 13, 454-6084 ALC Express Menu only, 5-9 p.m.
22 ODR FamCamp lake boat tour, \$5, campers only, 10 a.m., 12 p.m., 2 p.m.	23 FC Boot Camp 6 a.m. FamY Camp Adventure week 8, 454-3277 FC Cycling Class 11 a.m. FC Yoga 11 a.m.	24 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	25 FC Boot Camp 6 a.m. FC Pilates 11 a.m.	26 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "A Thousand Words" PG-13 dinner 5-8 p.m. movie 6:30 p.m.	27 FC Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Fried Chicken Plate, \$9.95 members, \$11.95 non, 4-9 p.m. ALC Trivia Night, 6:30 p.m.	28 ODR Kayaking Class, 10 a.m., \$10, 454-6084 ALC Express Menu only, 5-9 p.m. ODR FamCamp outdoor movie for campers, "Chronicle", 7:30 p.m.
29	30 FC Boot Camp 6 a.m. FamY Camp Adventure week 9, 454-3277 FC Cycling Class 11 a.m. FC Yoga 11 a.m.	31 FC Cycling Class 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	Tops In Blue is back Aug. 13 and Casino Night is coming back Aug. 17. See ALC section for details.			

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. **Closed July 4.**
Barber Shop: by appointment – Monday, Tuesday, Thursday & Friday 8 a.m.-4 p.m. Closed July 4.
GLC: Monday through Friday 7 a.m.-3:30 p.m. May vary depending on bookings. **Closed July 4.**
Family Member/Youth Programs: Tuesday through Friday 10 a.m.-5 p.m., Saturday 12-5 p.m.
Outdoor Rec: Tuesday through Saturday 10 a.m.-5 p.m. Marina by appointment only. Summer hours begin May 1: 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. **Open 8 a.m.-4 p.m. July 4 and 5, no group classes.**
Arnold Golf Course: Pro Shop & Driving Range 7 a.m.-dusk. Driving Range open 24 hours with pre-purchased key card. Mulligan's Coffee Bar & Grill Monday through Friday 10:30 a.m.-2 p.m., Saturday and Sunday 8 a.m.-2 p.m.
Recycling: Monday through Friday 7 a.m.-4 p.m. **Closed July 4.**
Wingo Inn: Monday through Friday 7 a.m.-6 p.m., Saturday and Sunday 8 a.m.-4 p.m.
Nonappropriated Funds Human Resources: Monday through Friday 7:30 a.m.-4 p.m. **Closed July 4.**

BX/Commissary customer eligibility

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

AAFES Dividends

Dividends generated from the Army and Air Force Exchange Service (AAFES) overall earnings are a major contributor to Services nonappropriated fund (NAF) construction and renovation projects as well as equipment purchases. Services would like to thank all AAFES customers for their support. Dividends received for May 2012 totaled \$6,076.31.

For more information contact Chris Floden, BX manager, at (931) 454-7153 or Jeff Lillard, Commissary manager, at (931) 454-3545.

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areas except Fitness Center, Outdoor Recreation (ODR) storage yard, and Youth open recreation and events. Youth Programs' Camp Adventure summer day camp is an exception and is open to ACC members with Members First Plus membership. Wingo Inn lodging is available by invitation of the AEDC commander.

UTSI staff, faculty and students are eligible for the Fitness Center Intramural sports program and Wingo Inn lodging. With Members First Plus membership other areas are open to include Fitness Center but not the running trail

and track or ODR storage yard.

Members First Plus membership has also been extended by the AEDC Commander to select groups. This includes Ascend Federal Credit Union employees working on base, AEDC Woman's Club and AEDC Fellows. With membership, Ascend on-base employees are eligible for all areas except Fitness Center and ODR storage yard. AEDC Woman's Club with membership are eligible for all areas except Fitness Center, ODR storage yard, Youth open recreation and events. Youth Programs' Camp Adven-

ture summer day camp is an exception and is open to ACC members with Members First Plus membership. AEDC Fellows who are members are eligible for all areas except Fitness Center, ODR storage yard and Family Member/Youth programs. Wingo Inn lodging is available to all of these groups by invitation of the AEDC Commander.

Members First Plus membership is handled through Chase bank and has monthly Services membership dues. There are no additional dues or fees charged by Chase bank as long as the account is kept current.

The membership card comes with MasterCard privileges accepted worldwide. Dues are \$15 per month for prime operating contractors, officers and DOD employees GS-9 and above. Reduced fees of \$8 are offered for enlisted and DOD employees GS-8 and below. There are also reduced fees for those living outside a 50-mile radius of the base. Membership includes access to members-only programs such as Texas Hold 'Em tournaments and membership nights at Arnold Lakeside Center where the member and immediate family eat for free. Membership

means discounts at most Services facilities on almost all purchases to include boat rental, golf, meals and camping.

While Members First Plus membership is required by some categories to be eligible to use certain activities, membership is available to all categories listed in this article. Even those categories that are eligible for all areas may choose to join to benefit from the discounts and free events. Chase bank also offers rewards programs for purchases made using the card. All Services discounts and free events do not require any charges

to your card. The card primarily serves as your membership identification. There may be times when a credit card number is required for reservations. It is your choice how payment is made.

Whatever category you fall into, Services invites you to take advantage of this serene and private setting and all of the areas available to you – Arnold Lakeside Center (ALC), ALC beach, Café 100, Barber Shop, Gossick Leadership Center, Golf Course, Mulligan's Coffee Bar & Grill, Fitness Center, Outdoor Recreation (Marina, FamCamp, RV and tent

camping), Crockett Cove (rustic cabins), Dogwood Ridge (trailers), Equipment rental, Auto Shop, Storage Yard, Pavilion Rental, Information, Tickets & Travel (ITT – discount tickets), Wingo Inn lodging, Family Member/Youth Programs and special events such as Children's Christmas Party and Tops in Blue. From fishing and boating lessons to Jam Night and Trivia Contest there is something for everyone. For more information on your eligibility, these activities or Members First Plus membership, please contact the Services Marketing Department at 454-3128.

For more information on your eligibility, these activities or Members First Plus membership, please contact the Services Marketing Department at 454-3128.

BRIEFS from H1

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 Sept. 17. For more information visit www.afclubs.net.

First Friday Jam is BACK ON for July! Things get underway at 6 p.m. Come to play, listen, dance and enjoy. Join in with the band to play an instrument or sing. Or take over and do your own performance.

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.
July 6: Prime rib for two, \$29.95 member, \$31.95 nonmember.

July 13: Membership Drive finale event: Olympic Team Night with cookout, includes hamburgers, chicken legs, potato salad, baked beans, and dessert, free for members, \$9.50 nonmembers and guests.

July 20: Catfish plate, \$9.95 member, \$11.95 nonmember.

July 27: Fried chicken plate, \$9.95 members, \$11.95 non-member.

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

Arnold Lakeside Center has planned an evening getaway to **Chaffin's Barn Dinner Theater** in Nashville July 13 to see "The Odd Couple." Can two divorced men share an apartment without driving each other crazy? Simon's play centers on a pair of desperately mismatched roommates, one sloppy and one neat, who are arguably the most memorable pair of characters that the successful playwright has ever written: Felix Unger, a neurotic fussy writer, and Oscar Madison, a slovenly sports journalist. The laughs are nonstop in this classic hit from one of America's greatest comedy writers. As is custom at Chaffin's Barn, enjoy dinner before the show and then watch as the stage descends from the ceiling and the lights dim. Cost is \$55 and deadline to sign up is June 29. Cost if signed up June 29-July 3 will be \$60. Depart from the ALC at 4:30 p.m. and return approximately 12 a.m. Call Melissa at 454-3303 to sign up for the trip. There must be a minimum of two to go and maximum participants is 14.

Last Friday Trivia Contest is 6:30 p.m. July 27. 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.

Tops in Blue returns Aug. 13 with a 7 p.m. public performance at Motlow State Community College. "Listen" is Tops In Blue's celebration of giving audiences the best in family entertainment. The 2012 tour invites the audience to listen to the music of life through the sounds we hear every day. It features the dynamic rhythms of The Doobie Brothers, Earth, Wind & Fire, Whitney Houston and Maroon 5. This year's tour also showcases the great country music of Darius Rucker, Carrie Underwood, Lady Antebellum and The Zac Brown Band. Of course, no Tops In Blue show would be complete without the great patriotic music that honors our nation and its heroes. Add the high-energy precision choreography and dazzling visual impact Tops In Blue is known for and every member of the audience will be singing along and dancing in their seats.

Casino Night is back at the ALC on Aug. 17 beginning at 6 p.m. for ages 18 and older. A dinner buffet will be served from 6-9 p.m. and includes London broil, stuffed chicken, garlic mashed potatoes, rice, balsamic grilled vegetables, green beans salad, rolls and assorted desserts. Gaming will be from 7-10 p.m. and includes craps, roulette, blackjack and wheel of fortune. Participants are given play money to try their hand at these games to increase their dollars which will then be used at a prize auction beginning at 10:15 p.m. Reservations are required for the buffet by Aug. 6. Cost for the buffet is \$19 for members and \$21 for nonmembers. Call 454-3350 for reservations or more information.

Family Member/ Youth Programs (FamY) 454-3277

Check us out on Facebook! Arnold AFB Services Youth Programs

Camp Adventure continues. Camp Adventure is a summer day camp run by skilled professionals through the University of Northern Iowa. Camp is Monday through Friday from 7:30 a.m.-4:30 p.m. This program is for ages 5-12 and children may attend by the week through Aug. 3. 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, Medication Permission Slip (if applicable). Registration is required in advance and a separate application is required for each child attending. The weekly themes, activities and field trips are listed in the Youth Programs section. Contact Youth Programs at 454-3277 for more information and to register.

Pre-teen trip to Ft. Campbell for Live Lean Green Workshop June 22. Ages 9-12 are invited to travel with Arnold Youth Programs to Ft. Campbell, Ky., to interact with the pre-teens there and work with their interactive sports wall. Youth will work as teams or individually to randomly or sequentially hit moving lit targets with their hands, feet, bean bags, foam noodles and more to achieve their best score. This activity will

Soccer Camp to be

held July 2-6. Learn a variety of skills to include passing, receiving, dribbling, shooting, throw-ins, goalie basics, offense and defense. Camp will consist of two training sessions daily lasting approximately three hours each with a fifteen minute break. The morning session will be 9 a.m.-12 p.m. for ages 9-12 and the afternoon session will be 1-4 p.m. for ages 13-18. Learn the skills to become a better soccer player. Cost is \$20 per child and deadline to sign up is June 27. A \$10 late fee will be applied after June 27. Remember to wear comfortable clothing and tennis shoes. You may bring a snack to have during our break. Water will be provided. Call to sign up or for more information. Camp will not be held July 4.

Dance Camp set for June 25-28. Dance Camp is geared to teach youth the ability to successfully demonstrate and perform a variety of dance moves to include Hip Hop, Country Western (two-step, line dancing), Ballroom (smooth, Latin) and Swing (East coast and West coast). Camp will consist of two training sessions daily lasting approximately three hours each with a 15-minute break. The morning session will be 9 a.m.-12 p.m. for ages 9-12 and the afternoon session will be 1-4 p.m. for ages 13-18. Learn the skills of how to be creative through dance. Cost is \$20 per child and deadline to sign up is June 21. A \$10 cancellation fee will be applied after June 21. There must be a minimum of 15 to hold the class and no more than 30. The class will be held at the Gossick Leadership Center. Remember to wear comfortable clothing and closed toed shoes. You may bring a snack to have during our break. Water will be provided. Call to sign up or for more information. Bring your best moves and let's groove.

Soccer Camp to be

held July 2-6. Learn a variety of skills to include passing, receiving, dribbling, shooting, throw-ins, goalie basics, offense and defense. Camp will consist of two training sessions daily lasting approximately three hours each with a fifteen minute break. The morning session will be 9 a.m.-12 p.m. for ages 9-12 and the afternoon session will be 1-4 p.m. for ages 13-18. Learn the skills to become a better soccer player. Cost is \$20 per child and deadline to sign up is June 27. A \$10 late fee will be applied after June 27. Remember to wear comfortable clothing and tennis shoes. You may bring a snack to have during our break. Water will be provided. Call to sign up or for more information. Camp will not be held July 4.

Fitness Center 454-6440

Check us out on Facebook! Arnold AFB Services Fitness Center

The **running trail behind the Fitness Center** is now only accessible to badged employees. Recent base security measures have eliminated the use of running trail badges for Fitness Center customers. The turnstile connecting the Wattendorf entrance to the mission area may only be opened by swiping an AEDC security issued badge. We apologize for any inconvenience but must follow and maintain Force Protection Conditions.

The **Fitness Center will be open 8 a.m.-4 p.m.** July 4 and 5. There will be no classes these days.

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

Outdoor Rec (ODR) 454-6084

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

Basics of Lake Kayaking Class will be held June 16, July 7, July 28 and Aug. 4 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, July 4, 25 or Aug. 1, respectively.

Paintball is suspended for July and August due to summer heat. Look for it to return in September.

Outdoor Rec will be open July 4th so stop by and see if we have something for you! We will be open 8 a.m.-6 p.m. Come rent an inflatable for your home event, rent a boat and cool off on the lake or maybe you need to rent a grill, canopy or cornhole game for more home fun. Give us a call and let us help you with your Independence Day plans.

Archery Basics Class will be 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 including 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 will be 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 and 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

See BRIEFS, page H4

Camp Adventure™

Catch the Magic!

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 fallootin' 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 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, Tullahoma 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 Barbaloots, sing with the Swomee Swans and eat Truffula Fruits. Teach the Once-ler a lesson for all. Hurry before the last Truffula Tree falls!
Swim: Tuesday & Thursday

The Services insert to the High Mach is designed to inform our customers of events and specials in Services activities. All program dates, times and prices are subject to change.

BRIEFS from H3

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.

FamCamp kayak/canoe and boat tours offered. FamCamp guests have added incentive to stay on select weekends to be able to go on lake tours.

What better way to spend a couple of hours on a Sunday than on a lake 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 24 and July 22 at 10 a.m., 12 p.m. and 2 p.m.

Kayak and/or canoe tours are available July 8 at 10 a.m. and 2 p.m.

**Wingo Inn
454-3051**

Check us out on Facebook! Arnold AFB Services Wingo Inn

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

**Gossick Leadership Center
454-4003**

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

July 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.

July 5 – “Mirror Mirror,” rated PG (1 hr. 46 min.) starring Lily Collins, Julia Roberts and Armie Hammer.

An evil queen steals control of a kingdom and an exiled princess enlists the help of seven resourceful rebels to win back her birthright.

July 12 – “The Hunger Games,” rated PG-13 (2 hr. 22 min.) starring Jennifer Lawrence, Josh Hutcherson and Liam Hemsworth.

Set in a future where the Capitol selects a boy and girl from the twelve districts to fight to the death on live television, Katniss Everdeen volunteers to take her younger sister’s place for the latest match.

July 19 – “Wrath of the Titans,” rated PG-13 (1 hr. 33 min.) starring Sam Worthington and Liam Neeson.

Perseus braves the treacherous underworld to rescue his father, Zeus, captured by his son, Ares, and brother Hades who unleash the ancient Titans upon the world.

July 26 – “A Thousand Words,” rated PG-13 (1 hr. 31 min.) starring Eddie Murphy, Cliff Curtis and Kerry Washington.



July 5



July 12



July 19



July 26

After stretching the truth on a deal with a spiritual guru, literary agent Jack McCall finds a Bodhi tree on his property. Its appearance holds a valuable lesson on the consequences of every word we speak.