



# HIGH MACH

Serving the World's Premier Flight Simulation Test Center



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## AEDC inactivates group, squadron structure

By Shawn Jacobs  
ATA Public Affairs

As part of a headquarters Air Force plan, AEDC inactivated its group and squadron structure June 25.

The Air Force directed the change from wings, groups and squadrons to directorates, divisions and branches.

The event occurred on the 59th anniversary of the AEDC dedication by President Harry Truman, which is also Gen. Henry "Hap" Arnold's birthday anniversary.

The formal ceremony, presided over by AEDC Commander Col. Michael Panarisi, recognized the inactivation of the 704<sup>th</sup> Test Group, the 704<sup>th</sup> Mission Support Group, the 704<sup>th</sup> Test Systems Group, the 704<sup>th</sup> Maintenance Group and squadrons of those units.

The flags and guidons of those organizations were furled and cased, as part of the military custom.

See **INACTIVATION**, page 3

## Fighter engine bio-fuel testing underway

By Philip Lorenz III  
ATA Public Affairs

An F110 engine that powers the F-16 Fighting Falcon recently began performance testing using a 50/50 blend of JP-8 conventional aviation fuel and a bio-fuel derived from the oil contained in the seed of the camelina plant, commonly known as false or wild flax.

"The testing recently initiated at AEDC will be the first dedicated, uninstalled engine tests conducted by the Air Force [on Hydro-processed Renewable Jet (HRJ) blended fuel]," said Jeff Braun, the Air Force's Alternative Fuels Certification Office director. "These will also be the first engine tests conducted by the Air Force [on HRJ blended fuel] in a facility that can simulate altitude effects on the aircraft. The data produced will be very, very valuable in this program. In fact, we plan on using that data to justify and support upcoming flight tests of the F-22, the C-17 and then possibly even the F-15."

This test supports the bio-fuels certification effort of this field engine, said 1st Lt. Antonio Brunson, 717th Test Squadron program manager for the first



An F-16 Fighting Falcon climbs out over Las Vegas in this U.S. Air Force file image. Engineers at Arnold recently began testing the engine used by most F-16s on a 50/50 mix of standard JP-8 jet fuel and a synthetic bio-fuel derived from the camelina plant.

phase of the test. Testing will simulate the overall engine conditions experienced in the full flight envelope and include ignition light-off, throttle transients, augmentor lights and sequencing along with screech and rumble monitoring.

Military aircraft engines operate with afterburners to enhance thrust, but these can create large unsteady pressure oscillations termed screech and rumble, which can damage the afterburner structure.

Lieutenant Brunson, who also was the project manager on earlier 50/50 synthetic fuel and JP-8 testing on military jet engines at AEDC, said he is excited about the test underway.

"In my opinion, this is going to be the future of the Air Force - alternative fuels - so being able to have a role in that early on, is important to me," he said.

"AEDC is producing the baseline data that enables us to go forward and prove that these fuels are viable fleet-wide for the Air Force," Braun said. "We purposefully picked the F110 and F100 because they are what we consider the most challenging and the most fleet-representative engines across the Air Force. Our strategy is to have the engines tested and certified using AEDC's facilities, and then use that data to support any other actual flight testing that we conduct within the Air Force."

"AEDC has done a terrific job for us," Braun added. "I can't stress enough the data that we get from using Arnold's engine test cells just goes miles as far as providing confidence to the aircraft community. That's why we work so hard at structuring these tests and maintaining our schedule. Any delays would have serious

ripple effect through the entire fleet-wide certification effort."

The longer term plan depends on testing like that done at AEDC, according to David Dickey, the lead systems engineer for propulsion in the Alternative Fuels Certification Office at Wright Patterson AFB, Ohio, and the AFCCO program manager for AEDC's current synthetic fuels testing.

"The goal is to complete certification of the Air Force fleet for unrestricted use of the HRJ blend by the end of 2012," he said. "It is expected that the F-16, along with the rest of the Air Force fleet, will be certified on the basis of the verification and validation provided by all of the data generated from the HRJ certification analysis and test program. Once certified, all aircraft, including the F-16, will be able to use the HRJ blended fuel for unrestricted operations."

## F-16 dedicated to late general



The F-16 static display aircraft at Arnold's Gate 2 was dedicated June 26 to Maj. Gen. Winfield Scott Harpe who died Dec. 5, 1998 in a crash in Madrid, Spain, during a training mission. Randy Harpe, son of General Harpe, reflects on his father's life during the F-16 dedication ceremony. (Photos by Joel Fortner)



By Joel Fortner  
AEDC Public Affairs

The F-16 "Viper" located at Gate 2 was dedicated Saturday in a private ceremony in honor of Maj. Gen. Winfield Scott Harpe.

The highest ranking active-duty officer to die in an F-16, the general perished Dec. 5, 1998, when his aircraft crashed in Madrid, Spain, while on a routine training mission.

He was the commander of 16th Air Force, U.S. Air Forces in Europe, at the time.

"My father's sudden death was a great loss for us and the Air Force with the only solace being that he died doing what he enjoyed most and while serving his country," said son, Randy Harpe.

Known by his family as "a noble man, a knight of skies," General Harpe was born in 1937 in Thomaston, Ga., and graduated from Cedartown High School in 1955. He received a bachelor's degree in economics from Florida State University in 1959 and a master's degree in business administration from Auburn University in 1970.

The general was a command pilot with more than 5,000 flying hours. His military decorations and awards include the Distinguished Service Medal, Silver Star with oak leaf cluster, Legion of Merit, Distinguished Flying Cross with five oak leaf clusters, Meritorious Service Medal, Air Medal with 20 oak leaf clusters, Joint Service Commendation Medal and Air Force Commendation Medal with oak leaf cluster.

See **DEDICATION**, page 4

## Keeping cool during hot weather



With the help of the AEDC Fire Department, the youngsters at Camp Adventure got a chance to cool off last Friday. Summer in this area means hot days with high humidity. With temperatures that continue to hover toward the upper end of the thermometer, it is easy to get overheated and dehydrated. Remember to protect yourself when working or playing in extreme temperatures by drinking plenty of water or drinks designed to replenish electrolytes about every 20 minutes and avoiding alcoholic, carbonated and caffeinated drinks which speed dehydration. Choose loose, lightweight, light-colored, breathable clothing. Use sunscreen to protect your exposed skin and wear a brimmed hat and sunglasses with ultraviolet protection. When working, be sure to take breaks in cool or shaded areas, especially if wearing clothing such as Tyvek or other fabric that limits air flow. Remember to pay attention to your body when you work in heat and learn the warning signs of heat stress, heat exhaustion and heat stroke. Be mindful of yourself and others and call for help when needed. See the editorial on page 2 for more information about protecting yourself during the hot summer months. (Photo by Rick Goodfriend)

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**HIGH MACH****Arnold Engineering Development Center**

An Air Force Materiel Command Test Center

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**Core Values**

- Integrity first
- Service before self
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# Reflections on freedom

By Col. Michael Panarisi  
AEDC Commander

July 4, 2010, puts year number 234 "in the books" for this great nation, and for those who are keeping track, we also quietly celebrated AEDC's 59<sup>th</sup> "birthday."

These anniversaries offer us a chance to look back and reflect, for just a moment, what a monumental event the beginnings of these two entities represent. We'll never know for sure, but it's hard to imagine that the founding fathers expected their "experiment" to achieve "great nation" status and serve as the beacon, and for some, the guarantor of the freedoms they held so dear.

In fact, only a "great nation" could serve as both, and this July 4<sup>th</sup> reminds us of just how important this role has become in an increasingly complex world, and how vitally important our work here is to keeping the dream alive.

This year, like so many in our recent path, we find ourselves as a nation still at war.

While our national economy slowly recovers from a close call, the demand on our military and their families is on the rise. For most of us, this holiday weekend offers a chance to unwind, enjoy the summer sun and enjoy the fruits of our labors with family and friends.

But for thousands deployed overseas, the day will likely pass much like any other, with a few bases pausing for just a moment to witness a small fireworks display or attend a USO sponsored celebration.

For our deployed members, the "birth of a nation" is not just another event on a calendar, it's what they live for every day.



Panarisi

It's been more than 10 years since our first operations in Afghanistan and Iraq, and as the days mount, it's easy to forget why the nation took this on in the first place.

The Fourth of July reminds us.

The citizens of Iraq and Afghanistan found themselves suffering under a repressive regime, much in the same way the original colonists did. The governments in both countries largely ignored the voice of their citizens, and in many ways scoffed the international community. Both exported their oppression beyond their borders, forcing other nations to take sides.

No amount of negotiation or bargaining would alter the course they were on, only a war would bring about the change needed to put citizens on a path toward freedom.

While some might argue that "we did it ourselves," that revisionist history ignores the significant contributions of other nations, and their militaries, that joined us in our struggle at the outset.

They too were sent by their governments, across the ocean, for a cause deemed in the national interest. But the stories we often see regarding the current conflicts mask the deeper mission at hand. These two conflicts will give birth to new nations, led by their own citizens,

with "great nation" aspirations of their own.

Our dream began more than 200 years ago. Theirs is still in its infancy.

Our work here is often the birthplace of the capabilities that the nation needs to carry out these missions.

If you think about how we are contributing to the birth of new nations, our mission takes on a whole new meaning. It's not all about meeting an acquisition schedule or surviving milestone decisions.

It's about building the tools to literally change the landscape of oppression, terror, and greed across the globe. It's about passing the torch of freedom from our hands to new, struggling nations, with dreams as big as our own. Putting it all in that perspective, our work takes on a whole new, noble meaning.

So on this Fourth of July, I hope you'll join me for a moment of reflection, and as you watch the fireworks and revel in the splendor of our 234<sup>th</sup> year, pause for moment to think about how difficult the situation looked for the founding fathers.

Think about how much we owe them for the sacrifices they endured to forge a new nation, and how in the end, perseverance, determination and the support of the citizens made what seemed impossible, a reality.

Then I hope you'll also join me in a moment of prayer for the brave men and women deployed on the mission to make it happen.

They need us more than ever.

Then let's re-stoke the fires that lets AEDC continue to live up to General Arnold's vision, and keeps our Air Force "Second to None."

## Ensure your voice is heard – exercise your right to vote!

By Navy Lt. Leanne Carter  
Voting Assistance Officer

Armed Forces Voting Week is one of the many opportunities for Arnold AFB Voting Assistance Officers to get the word out to all military and their family members about the right to vote.

The week is devoted to

ensuring all personnel are aware and have the means to have their vote heard. This year Armed Forces Voting Week is June 28- July 7.

Although many will be away for the Fourth of July holiday, as the center's Voting Assistance Officer, I wanted to ensure the in-

formation was available to all voters.

Many states have already had their primary elections but 24 states will conduct theirs after July 1.

This November brings the opportunity to elect or re-elect 435 members of the

See **VOTING**, page 6

## How to protect yourself during the summer heat

By Staff Sgt. David Holman

NCOIC AEDC Medical Aid Station

Now that we are in the summer months, more and more of our attention will turn to outdoor activities. There will be more barbecues, family vacations to the beach and sporting events.

As we head outdoors, it is important for us to take our safety and health into consideration.

First and foremost, wear sunscreen.

Sunscreen should be applied every day. Even on cloudy and overcast days, more than 80 percent of the sun's rays can get through.

Sunscreen should be applied to all exposed areas of the skin while it is dry, preferably 10 to 30 minutes prior to going outside. Sunscreen should be reapplied every two hours, after heavy sweating or after water activities.

Even water resistant sunscreen can be removed when you towel dry, so a good rule of thumb is that when you dry off, reapply sunscreen.

Dermatologists recommend a broad-spectrum (UVA and UVB protection), water resistant sunscreen with an sun protection factor (SPF) of 30 or greater.

Some cosmetic products offer SPF protection. It is best to check your brand and know what the SPF level is and if it is less than 30, go ahead and apply the 30 SPF sunscreen as well.

Another way to beat the sun's rays is to cover up when outdoors.

Wear a light, long-sleeved shirt and long pants. You should also wear a hat and sunglasses when possible to protect your scalp and eyes.

If you are unfortunate enough to get a sunburn, cool baths and moisturizers, as well as applying aloe vera lotion to the area can help soothe the burning.

Nonsteroidal anti-inflammatory drugs such as Motrin or Naprosyn can also help with the pain.

Avoid lotions that contain "-caine" products such as benzocaine.

If you notice blisters, try not to "pop" them and seek medical attention. The blisters are a natural way for the body to protect itself while healing.

If the sunburn is serious and is accompanied by a headache, dizziness, chills or a fever seek medical attention immediately.

Sunburns aren't the only danger that the summer sun poses.

Warmer temperatures can also lead to heat related emergencies. There are three types of heat related emergencies, heat cramps, heat exhaustion, and heat stroke. Heat cramps can cause muscle spasms which are generally involuntary and painful, much like a Charlie Horse.

These are usually brief, come and go, and will resolve on their own. If you are having heat cramps it is a good bet that you are dehydrated.

The best treatment for this is to get out of the heat, and drink plenty of fluids. It is recommended that you drink something with an electrolyte replacement. Sports drinks such as Gatorade with water work well.

If your symptoms get worse, seek medical attention.

Heat exhaustion and heat stroke are more serious conditions, and should be considered an immediate concern.

Heat exhaustion is characterized by heavy sweating, cramping, paleness, fatigue, dizziness and headaches. You might even notice some nausea or vomiting, and the victim might faint.

Heat exhaustion is best avoided by drinking plenty of fluids and frequent breaks from outdoor activities.

If you notice these symptoms, remove the person to a cooler environment, cool them off, remove the outer layer of clothing, give them cool non-alcoholic beverages and, most importantly, rest.

If the symptoms are not treated immediately, they can progress to heat stroke which is a medical emergency.

If the victim stops sweating, is confused, has warm dry skin, or is unconscious, call 911 and seek immediate medical attention. Get the victim to a cooler environment and remove the outer layer of clothing. Wet the person's skin and fan them.

See **SUNSCREEN**, page 7

## 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 Panarisi  
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://lpapro.arnold.af.mil/PORTALimages/Smoking\\_area\\_map.pdf](https://lpapro.arnold.af.mil/PORTALimages/Smoking_area_map.pdf). Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

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

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.

## STAT facility underway



Col. Michael Panarisi, AEDC commander, sits in a backhoe as the team responsible for the Space Threat Assessment Testbed (STAT) ground test facility assembled recently to mark its debut. STAT will create a realistic space environment to perform developmental and early operational testing of space hardware for the Department of Defense, the National Reconnaissance Office and other agencies against man-made threats and naturally occurring environmental phenomena. STAT will simulate the environmental conditions existing at various orbits and self-induced effects. This system will also emulate man-made threats to perform system test and evaluation. STAT is located in AEDC's Space Systems Effects Facility. Pictured from left are Lyston Pierce, STAT security officer, AEDC; Randy Simpson, STAT mechanical manager, ATA; Robin Strong, Distributed Mission Operations integrated product team (IPT) lead, COLSA, Corp.; Ivan Garcia, vice president for Army/Intelligence, COLSA, Corp.; Michael Geleta, vice president Advanced Programs, ATK; Keith Holt, STAT program manager, ATA; Dawn Battles, ATK program Manager; Nicole Tracey, STAT program director, AEDC; Doug Moore, ATK systems engineer; Tony Tipps, ATK facilities IPT lead; Jenny Conry, ATA engineering technician; Tim VonderHaar, Western Environmental Corp. (WEC) cleanroom representative; Elijah Minter, AEDC department project director; Kathy Swanson, STAT contracting officer; Marc Smotherman, ATA STAT DACS manager; and Lance Baxter, AEDC technical director. (Photo by Rick Goodfriend)

## Ceremony marks milestone in AEDC's environmental remediation efforts



Spear-headed by the Civil Engineer Branch, a collaborative seven-month effort paid off between AEDC, USACE-Tulsa, CMH2 Hill and the primary subcontractor, TerraTherm, to remove more than 31,000 gal of spent solvents that were disposed of in a leach pit behind the Model Shop. Denny Timmons, AEDC's Restoration Program Manager, said it is one of the largest thermal remediation projects in the country, and it is the largest thermal remediation effort that the primary subcontractor, TerraTherm, had conducted to date, in terms of acreage and depth. From left, John Razzolini, CH2M Hill vice president of federal operations; Steve Offner, CH2M Hill senior construction manager; Pam King, Civil Engineer Branch asset management chief; Susan Trussell, United States Army Corps of Engineers (USACE) Tulsa District project engineer; Denny Timmons, Air Force installation restoration program manager; Jay Stewart, ATA chief of environmental; Mike Singer, CH2M Hill thermal remediation project manager; Col. Michael Panarisi, AEDC commander; John Bierschentz, TerraTherm president; Ken Keibell, USACE, Tulsa District contracting officer's representative; Roger Donovan, Tennessee Department of Environment and Conservation's (TDEC) Solid Waste Department regulator; Steve Pearson, ATA deputy general manager; Dennis Flatt, ATA restoration program manager; Kraig Smith, ATA environmental engineer; Dennis Ham, Restoration Advisory Board Community (RAB) co-chair; Col. Eugene Mittuch, AEDC vice commander; Jim Galligan, vice president and director of operations for TerraTherm; Connor Haugh, USGS hydrologist; Dr. Ed Kraft, AEDC technical adviser; Pat Eagan, director of ATA's Support Services Department; Jack Turner, RAB member; Mike Apple, director of TDEC Solid Waste Division; and Lt. Col. Saroya Follender, Civil Engineer Branch director, cut the ribbon in a June ceremony marking the design, construction and start-up of a large-scale soil and groundwater thermal remediation system behind the Model Shop. (Photo by Rick Goodfriend)

### Activation from page 1

In his remarks, Col. Panarisi noted the "melancholy" nature of the day for many of the attendees.

"The reality is we're in the acquisition business and in the acquisition community, as it reorganized into number units, with squadron commanders, and then group commanders, it just didn't work out,"

Col. Panarisi said, "We're here today to return to an organizational construct that will be much more familiar in the acquisition community, much more familiar to the teams that we serve."

Col. Panarisi said the restructuring will actually add flexibility to AEDC.

"Without squadron designations and group designations, the authority to

reorganize and move missions around, move people around, is left at my level," he said. "As we see the need to adapt to an ever changing environment, we will not be hampered with a labor intensive and time consuming change request. In many ways, returning to a traditional organizational construct reflects a time honored tenet we hold dear - flexibility is

the key to airpower."

At the same time, the commander tried to allay any fears that other major changes are imminent.

"Today we're going to inactivate the numbers, but the leaders are going to remain in place, the mission's going to remain in place, the organization's going to remain as it stands today, he said.

"Going forward, we

are going to represent our capabilities with names that the rest of the acquisition community will recognize. As you leave today, don't make this out to be something bigger than it is."

The move follows an Air Force senior leadership decision to standardize the size of wings, groups and squadrons across the Air Force.

Wings now must contain 1,000 or more members; groups, 400; and squadrons, 35.

With this reorganization, all of the Air Force Materiel Command's (AFMC) centers will see some changes. AFMC planners say the realignment is "manpower neutral," meaning no net gain or loss of jobs will occur.

## Record amount of material disposed of on 'shred day'

By Andrea Stephens  
ATA Public Affairs

More than 33 tons of material were shredded June 18, resulting in AEDC's largest bulk shred of non-printed media to date.

As part of ongoing recycling efforts, and in support of Information Protection Program requirements, AEDC hosted a bulk shred day to properly dispose of sensitive materials, to include proprietary, For Official Use Only and International Traffic in Arms Regulation (ITAR) export controlled information, and information protected under the Privacy Act.

"Identity theft is becoming one of the fastest growing crimes in the United States," said Information Protection Security Specialist Jack Glasser. "It's easy to see why AEDC is committed to protecting the controlled unclassified information that could affect our nation, our customers, and our workforce. The statistics show just how vulnerable we are to identity theft.

"In addition to bulk shred day, the relationship we have with Cintas provides a secure and convenient method of disposing of our valuable information. Proper protection of controlled unclassified information is a

responsibility that everyone should take seriously."

According to ATA Facility Security Officer Jeannie Bowden, the materials properly disposed of during the bulk media shred included CDs, DVDs, VHS tapes, slides, movie film, photographs, transparencies and FM MUX tapes.

Due to the costs associated with base incineration capability, contracting shred services is the most cost effective solution for AEDC's destruction needs, said ATA Director of Support Services Pat Eagan.

Eagan said effective management of the Cintas contract this fiscal year was the reason additional disposal services could be requested.

Previously, labor dollars were required to remove media labels, deliver media to the Central Computer Facility, complete degaussing actions and certification labeling, move degaussed materials to the warehouse, then load the materials into an AEDC truck for delivery to a local recycling company, Bowden explained.

"The bottom line is that we are removing unneeded materials in an environmentally safe way and saving the taxpayers precious

See SHRED, page 9

## Education fair July 15 at ALC

The Education and Training Office is hosting an education fair from 10 a.m.-2 p.m. July 15 at the Arnold Lakeside Center.

The fair is open to all AEDC personnel, including DoD and ATA employees.

Several local colleges and universities have been invited to provide employees and their family members an opportunity to career plan and possibly enroll for a new school year.

The following schools will be in attendance; others are pending: American Sentinel University; Columbia Southern University; Electronic Computer Program Institute; Embry-Riddle Aero-

nautical University; Grantham University; Motlow State Community College; Southern New Hampshire University; St. Leo University; Tennessee State University; Tennessee Tech University; Tennessee Technology Center at Shelbyville; Thomas Edison State College; Trevecca Nazarene University; Troops to Teachers; TUI University (Touro); University of Alabama, Huntsville; University of Phoenix; UTSI; and Walden University.

For more information regarding the education fair, contact the Education and Training Office at 454-4313.

### Dedication from page 1

"My father was true blue Air Force," Harpe said. "He lived it, loved it and promoted it as the best branch of the military. He was a proponent of research, development and testing and spoke excitedly of new technologies, some of which were surely evaluated here at Arnold Air Force Base."

General Harpe's sister, Suzanne Byrd, described her brother as a born leader who, as a child, "always had a gaggle of kids following close behind."

"America needs heroes," said AEDC Vice Commander Col. Eugene Mittuch. "Not the movie heroes we see coming out of Hollywood, but great Americans from small towns across the country like Thomaston, Georgia. Major General Winfield S. Harpe was one of those great Americans, and this F-16, which sits just off Interstate 24 and will be visited by hundreds of people a year, will stand as a testament to his memory and to all those who have given their lives building the greatest Air Force the world has ever known."



Left, AEDC Commander, Col. Michael Panarisi leads the official delegation in preparation for the group and squadron inactivation ceremony. Right, the guidons and flag of the 704<sup>th</sup> Test Group are furled and cased, signaling the inactivation of the group and squadrons. (Photos by Rick Goodfriend)

# A passion for chess unites them

By Philip Lorenz III  
ATA Public Affairs

*“Chess is intellectual gymnastics”*

*Wilhelm Steinitz (May 17, 1836–August 12, 1900) was an Austrian and then American chess player and the first undisputed world chess champion from 1886 to 1894*

No one speaks and poker faces prevail as Dr. Taylor Swanson slowly, but confidently reaches across a chess board and takes one of Holden Covington’s pawns with his bishop.

Dr. Swanson, Technology Branch’s space and missiles technology program director, said Thursday evenings are often like that at the Arnold Lakeside Center (ALC).

When the Arnold Lakeside Club merged with the community center in 2009 to become Arnold Lakeside Center, one of the programs acquired was the expanded opportunity of chess for those at AEDC.

“The chess program is an Air Force Program for community centers,” said Lyle Russell, the Mission Support Division’s ALC manager. “Since the ALC is now also a community center, that’s one of our [new] programs.”

AEDC’s new chess program caught the attention of Dr. Swanson.

“I saw an advertisement for it in the Services Connection,” he said. “This was more a fortuitous discovery than the result of a concerted search.”

Dr. Swanson’s opponent, Holden Covington, the 13-year-old son of Britt Covington, AEDC’s executive director, said he began playing chess when he was six years old.



**Left, Holden Covington, the 13-year-old son of Britt Covington, AEDC’s executive director, watches silently as Dr. Taylor Swanson, 649th Test Systems Squadron’s space and missiles technology program manager, makes a move on a chess board at the ALC. Holden said the game teaches the players logic, calmness and how to analyze a situation. The game ended in a draw. Lyle Russell, the 704th Base Services’ ALC manager said the “official” chess program starts again April 20, 2011, but emphasized that they have the equipment and space for anyone to play at any time. (Photo by Philip Lorenz III)**

“It seemed interesting and fun and a challenge,” Holden recalled. “I’d say my skills are improving and I do feel like I should continue to play.”

Dr. Swanson also learned to play chess when he was younger.

“I started playing chess in elementary school and played my parents quite a few times,” said Swanson, who came to AEDC in 2009. “Then I took a few years of not playing chess, during high school. And then recently, maybe about a year and a half or two years ago, I started playing again, played the computer a lot and played a couple of friends from church, a couple of friends from the university.”

Swanson drew a parallel between his favorite hobby and his professional responsibilities.

“We have an entire squadron doing long-range planning and there’s a lot of

that in chess,” he explained. “[With my job], we develop certain capabilities; increase technology readiness levels.”

Holden prefers to play chess with “real opponents.”

“I don’t really play chess on the computer,” he acknowledged.

Covington said his son has benefited from playing chess at the ALC.

“Holden has really enjoyed playing chess with Dr. Swanson,” he said. I expect Taylor has taught my son a great deal about chess already. I am [also] motivated that my son learns chess because I believe it develops strategic thought and because I believe it to be a preferred substitute for video games. People generally have a passion for chess, but an addiction to video games. I view one as productive and one, to some degree, as counter-productive.”

Joel Kennerly, an ATA project engineer at AEDC, is probably the most experienced chess player among the others in the club at the ALC, according to Swanson.

Kennerly reacted to Swanson’s praise, saying, “Karl Kneile participated in our chess club also, and he is one of the best players I’ve ever played against.”

A retired AEDC engineer, Kneile has been a “life” member of the United States Chess Federation (USCF) for approximately 40 years. He has actively

participated in the USCF tournaments for about half of those years and he currently has a class “A” rating.

Kneile said he has enjoyed playing chess with the small group at the ALC and was particularly impressed with Holden’s grasp of the game, considering the young man’s age.

Kennerly said the reason he enjoys playing chess is simple.

“[It’s] the competition,” he acknowledged. “[Also] I think it helps your decision making. I have been playing chess since 1994, and I’ve been a member of the United States Chess Federation since 2001.”

He also credited Swanson, one of his frequent opponents, with being very interested in learning to play chess.

Kennerly does play against a computer, but said the best instruction came from another source.

“I learned the most about chess from Maurice Ashley’s instructional CD (“Maurice Ashley Teaches Chess”),” he said. “I also have the chess player’s bible – ‘Modern Chess Openings.’”

Kennerly’s advice to his opponents or other fans of chess is straight forward.

“I would say that the keys to playing a good chess game are first, to control the center of the board,” he explained, “Second, develop your pieces and, third, pay attention to your opponents’ moves.”

*What is geocaching?*

## AEDCers enjoy mixing technology and treasure hunting



**Benji Spratlin, son of Elaine Posanka, AEDC’s acting intelligence officer, signs the loog on a second geocache he and his mother found in the Short Springs Natural Area in Tullahoma. (Photo provided)**

By Philip Lorenz III  
ATA Public Affairs

With more than 2,700 employees, including contractor, active duty Air Force and civil service employees at AEDC, it isn’t surprising that some people never meet or get to know each other. Sometimes, it takes a shared interest to bring people together who would otherwise be strangers.

Three years ago, Stu Coulter, an ATA engineer in the Aerothermal Measurement Laboratory at AEDC, decided to try his hand at geocaching after he stumbled upon something about it online. He had been looking up how to use his Global Positioning System (GPS) device.

“I got into it because I like to hike and backpack, and like the map work that comes with such trips, and then liked mixing the GPS gizmo into the hikes,” he said. “Then it was fun to hunt for some of the local geocaches.”

Michael Glennon, Communication Branch director, said, he got into geocaching through the Boy Scouts to support a merit badge for a 2010 project.

“[Geocaching] is an electronic treasure hunt, using modern technologies of the GPS,” he explained. “You have locations based on latitude and longitude you enter into a hand-held GPS. From there you find your way to the item.”

“When you arrive, there are clues you must follow to find the item,” he continued. “Normally they’re hidden so it’s not obvious to the general public. Small tubes, as small as one inch, have been found, to larger caches in ammo boxes.”

The most recent fan of geocaching at AEDC is Elaine Posanka, AEDC’s acting chief intelligence officer.

“I read an article about it [geocaching] in the Tullahoma News and I said to myself that sounds like fun,” she said, recalling how she found an automotive GPS and gave geocaching a try.

“It was something that I did in the beginning with my son, who is a first grader, to try and get him out into the woods and get him excited about the outdoors, because he is of the video game generation, and he likes high-tech things,” she said. “Taking a walk in the woods seemed pretty dull to him. But treasure hunting was cool, that was what pirates did and holding the GPS was cool, too.”

She said a phone call requesting her presence at a meeting of the Elk River District Boy Scouts in the Middle Tennessee Council came next.

“The Boy Scouts got involved in it for the centennial year and the district in this area was looking for somebody who could help with that committee and

See **GEOCACHING**, page 6

# It's a stretch: More tips for preventing major injuries

By Col. Michael Panarisi  
AEDC Commander

As we explored in the last message, flexibility is a key part of our overall fitness. Most workout routines actually reduce our flexibility over time, so we need to include stretching routines to counter tightness we'll experience as our workouts get more demanding. But before we look at a specific stretch let's review the rules.

Rule #1 – never make your muscles fight the stretch ... this means the most effective stretch routines start with positions that allow the muscle to relax as you stretch, instead of using the muscle for support during the stretch.

Rule #2 – a partner makes a BIG difference. If you are trying to relax for a stretch, having a partner do all the work for you makes the relax part much easier.

If you aren't expending energy, or trying to balance yourself during the stretch, you'll make progress much faster.

Are we ready to stretch? Not just yet. Two more rules.

Rule #3 – an effective stretch takes time, at least 30 seconds, maybe up to a minute.

And Rule #4 – tired muscles stretch much more easily than fresh ones, so

adding a stretch routine to the end of your workout really takes advantage of the time you spend in the gym.

Armed with the rules, let's hit what is likely the most troublesome muscle on the list ... the hamstring.

The hamstrings are so involved in so many functions; tightness in this area manifests itself in a whole range of maladies. The problem is they just don't feel tight in day to day activities. But the long term effect of tight hamstrings is real as they slowly but surely rotate your hips forward and increase the pressure on the discs in your back.

For many, the first indicator is an injury in the form of a "pulled hamstring" when you least expect it.

Fortunately, there are lots of moves out there to stretch this group, and most are very low risk and easy to perform.

The basic premise of any hamstring stretch is to apply force on the legs to bring the hip angle up to and beyond 90 degrees.

As we mentioned previously, the "bend over and touch your toes" will do just that, but it violates Rule #1 as your hamstrings are actually engaged as you bend over.

The "easy" fix? Lie on your back and raise your leg instead. This

engages the hip flexors and offers a convenient "pull" against the hamstrings. But we can improve this basic move.

Adding a partner to gently lift your leg to the point of initial resistance lets you totally relax during the stretch.

Sophisticates call this a "passive stretch" since it requires little or no effort on your part.

Only two tips. During this move, it's important to keep your foot flexed. This adds a

little helpful tension. And keeping your knee locked out helps you monitor or feel the pressure your partner is applying, and lets you keep modulate the pressure.

Note I said "pressure"... NOT PAIN.

We tend to stretch far too aggressively, and I've even seen folks grimacing during a stretch. Don't go there!

Not only are you risking a rupture or other injury, the pain response actually forces your muscle to fight

the stretch to protect itself (remember Rule #1?).

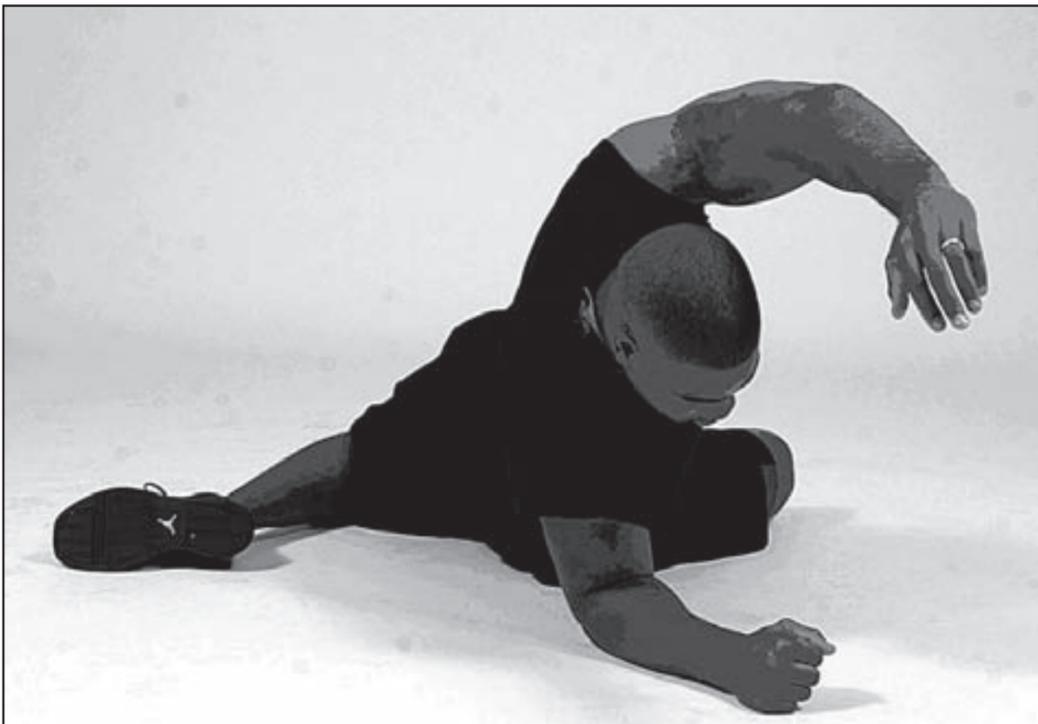
So patience is the key ... gentle, constant pressure for 30 to 60 seconds, two or three times, rather than a forced, ratchety, painful effort.

If you don't have a partner, you can still use this position by pulling on your leg with a towel draped over your foot, or my favorite, lying down in a doorway and letting the wall hold your leg up as you scoot closer. Both of these variations are "one

leggers" so you'll have to adjust a bit between legs, but these work well if you just stick to it.

There's just not enough room here to list all the possible hamstring stretches, so please, get with Ron at the gym and build a routine that works for you.

This is not an area for do-it-yourself routines. Let the pros work their magic, and you'll get "loose" much more quickly, and most importantly, "pain free."



Most workout routines actually reduce our flexibility over time, so we need to include stretching routines to counter tightness we'll experience as our workouts get more demanding. (Photo provided)

## Voting from page 2

House of Representatives plus a delegate for District of Columbia (Washington, D.C.) and four delegates to the major U.S. territories.

Additionally, 36 of the 100 Senate seats are up for election with 34 of those being six-year terms. The governors of 37 states will also be decided.

For those who want to make a difference in the direction of our glorious country, the primaries and November elections are the time to speak your mind and place your ballot.

Every vote is important. It has been said by many people that it is improper to complain about the countries' direction if you didn't vote to change it.

I will not steer personnel toward any party or can-

didate, but I do hope that a voter is educated about the process and the candidates. Tennessee voters can register at their county Department of Motor Vehicles. Out of state voters can register via voters registration cards. There will be a table with voting information at the June 30 PT formation for those who need information.

Please contact your Voting Assistance Officers at any time for any questions or voters applications. As one of the two base Voting Assistance Officers, I am located in building 1099 Room 113 at work phone 454-5726. 2nd Lt. Rachael Clark is the other officer and is located in building 1103 second floor at work phone 454-4779.

## Geocaching from page 4

I had experience in it, so I volunteered," she said, adding that it was Stuart Coulter who nominated her to head the geocaching committee at the council meeting.

"I didn't know Stu at all before [my experience with geocaching]," she said. "I knew he was a scout leader and worked at AEDC, but didn't really know him until we worked on that committee together. Michael, I knew he was here, but I didn't [really know him], but his son and Stu's son are in Boy Scouts."

Posanka said there is a special BSA Centennial geocaching patch that Boy Scouts can earn this year, and a brand new geocaching merit badge, and her son, Benji is definitely interested in going from Cub Scouts to Boy Scouts.

"That [experience with geocaching] certainly

gets him hooked on the outdoors," she said. "The geocache community is also one that values the leave no trace principles and environmental awareness. They have cache-in and cache-out events where you go to the cache; you pick up trash all along the way and on the way out.

"Besides the thrill of the hunt, is that it has taken me to places in the area that I didn't know existed," she added.

"Places in Shelbyville and Franklin County that I didn't know were this close to home. The main example of that is probably Falls Mill in Belvidere. It was amazing – Benji and I spent the whole day there, the mill owner showed Benji how to open the sluice and make the mill stop and start. He showed us all the equipment. It was fantastic. You can't lose."



Elaine Posanka, left, AEDC's acting intelligence officer, her son Benji Spratlin and her father, Gery Posanka, pose for a photo at Camp Boxwell in Lebanon, Tn. Benji is holding the geocache and her father is holding the global positioning system and the list of all caches hidden in Cubworld on the scout reservation. (Photo provided)

## 718th Test Squadron holds Change of Command ceremony

By Philip Lorenz III  
ATA Public Affairs

Col. James Jolliffe, director of AEDC's Test Division, passed the 718th Test Squadron guidon to Lt. Col. Gregg Leisman during a change of command ceremony June 21.

As director of the newly named Space and Missile Ground Test Complex, Colonel Leisman replaced Lt. Col. James Colebank, and will direct all space and missile ground testing to include solid rocket and hypersonic propulsion, space simulation and threats, advanced sensors, hypervelocity lethality re-entry material evaluation, and signature collection and analysis.

In his previous assignment, Colonel Leisman served as the National Reconnaissance Office (NRO) Senior Field Rep-

resentative to the Operationally Responsive Space Office.

He served as the lead for multiple classified activities that were reviewed quarterly by the Assistant Undersecretary of the Air Force for Space and the Deputy Director of the NRO. During 2010 he was deployed to Afghanistan and was the NRO command representative to the 82nd Airborne, a special operations task force, and other warfighting units.

Colonel Leisman earned his commission as a distinguished graduate in astronautical engineering from the U.S. Air Force Academy in 1994. After graduation, he became the chief of operations for GPS satellite processing at Cape Canaveral AS, Fla.

He earned a master's degree in space systems management from the



Lt. Col. Gregg Leisman, right, accepts the guidon of the 718th Test Squadron from Col. James Jolliffe. Also pictured is 1st Lt. Gregory Boyadjian. (Photo by Rick Goodfriend)

Florida Institute of Technology and also holds a master's degree in astronautical engineering from the Air Force Institute of Technology.

A Test Pilot School graduate, Colonel Leisman has served in multiple flight test engineer roles with the C-17, CV-22 and

parachutes.

He has more than 650 HALO jumps and 360 hours of flight test time in 41 different aircraft.

Sunscreen from page 2

If the victim is unconscious or confused do not offer them water.

The most important thing to do is cool them off and get them medical attention immediately.

While the summer months are a time where people are encouraged to have fun and be outside, we have to make sure that we are doing it in a safe way.

Drink plenty of fluids, make sure you are taking a break from outdoor activities, and wear sunscreen.

If you have any questions, please feel free to contact the Medical Aid Station at 454-5351; we will be able to answer any questions you might have.

Have a safe and enjoyable summer.

# Enhanced CFD capabilities put AEDC on cutting edge

By Shawn Jacobs  
ATA Public Affairs

Computational fluid dynamics (CFD) has been around for years now, but recent advances in hardware and computer codes are helping make AEDC among the leaders in this scientific field.

Dr. Ralph Jones, branch manager of ATA's Technology Analysis Branch, described CFD as a technique for simulating the flow of fluids.

"We deal with lots of fluids around the base, but we're principally interested in air," he said. "There are some rather complex equations that describe how fluids move – either over bodies like airplane models, wings, things of that nature – internal to systems such as facility ducting nozzles and turbine engines. There are mathematical techniques that allow you to approximate the equations and come up with solutions that are highly representative of the flow field of interest."

In a sense, running a CFD code is analogous to running a test in one of AEDC's facilities. CFD's equivalent of a test cell is a supercomputer with large memory and fast processors on which scientists can run the software tools and codes that are developed, Dr. Jones said.

But CFD can be "wider" than just the

wind tunnels, according to Tracy Donegan, a section head in the Technology Branch, who is involved in the development of new efforts and application of capabilities.

"It could be expanded looking beyond just air," he said. "One of the primary areas is air calculations over bodies, but then you get into more complex calculations where you start computing chemistry and combustion effects – turbine engines and so forth – which make simulations much more complicated."

Many recent CFD enhancements actually involve computer code and interagency cooperation, according to Dr. Greg Power, ATA technical fellow for computational modeling and simulation.

"Our goal is to have production capabilities ready to support the wind tunnels and to support the warfighter in general," he said. "We get those tools from a lot of different sources."

AEDC uses available government tools, as well as those developed at NASA and some industrial and commercial tools.

"Many times the software that we have available can't handle the problems that we're faced with, so we're a lot of times at the leading edge of the types of problems that we need to handle," Dr. Power said. "We have to develop our own capabilities, more

times than not, in concert with other folks within government and the Air Force Materiel Command (AFMC)."

Dr. Power said AEDC's CFD program has a close relationship with the Air Force SEEK EAGLE Office (AFSEO) at Eglin AFB, Fla., whose goal is to improve the combat capability of the warfighter. The SEEK EAGLE Program is the standard for the aircraft-stores certification process of the Air Force.

Other CFD enhancements are the result of hardware acquisition and development.

"The High Performance Computing Modernization Office has provided a lot of funding for us over the past 10 years to do development, and not only helping us by providing the hardware that we use, but they also provide us funding for development," Dr. Power said. "We've been developing, over the years, capabilities to enhance the ability to do store separation simulations, such as dropping weapons or fuel tanks or firing missiles. "Now we're much more multidisciplinary; you have multiple bodies interacting with one another, but you also need to have the ability to address aero structural phenomena so the wings are deforming. We're developing that capability in concert with others."

Turnaround time is another factor that has improved dramatically in CFD testing.

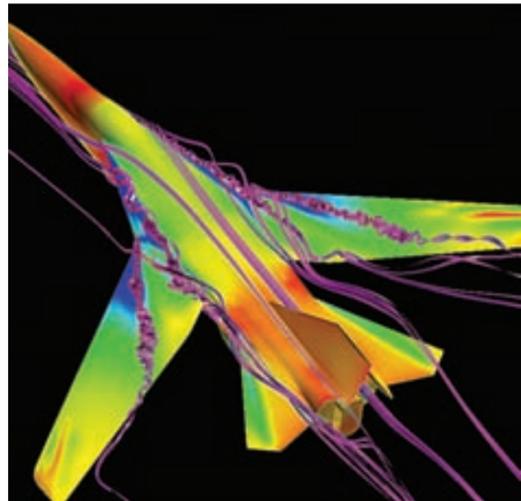
"The advancements in both complexity and reductions in turnaround time ... have come from both software improvements, physical model improvements and computer capability," Dr. Jones said. "Literally thousands of times improvement in capability for doing external aerodynamic computations [have been realized]."

In the area of verification, Donegan said they have an extensive suite of simulations that can be used to validate codes. "They may range from just very simple problems to which we know the answer to fairly complex problems that we've done before that we have extensive data from say a wind tunnel," he said. "Our goal isn't to diminish wind tunnel testing but to augment it such that we have a more effective

program, which often can save the customer money."

On the Air Force side of the operation, Dr. Terrance Debreus is an aerospace engineer/program manager for the modeling and simulation capability with the Test Technology Branch. He agreed the future is bright for CFD advances at AEDC.

"Our modeling and simulation engineers are world class with a long history of applying their expertise throughout the Department of Defense (DoD) and NASA," he said. In the years to come we will continue to leverage new technologies, hardware and software, to further the DoD mission."



The above CFD image shows the surface pressure distribution and stream ribbons for the standard check model. (Image provided)

## Tulahoma Kiwanis Club to celebrate Fourth of July with air show and terminal dedication



The Tulahoma Kiwanis Club is inviting the public to celebrate the Fourth of July with a free air show and fireworks display tonight at the Tulahoma Regional Airport.

There will also be a dedication of the new Tulahoma Regional Airport terminal building.

The gates will open to the public at 6 p.m.

The air show will open with skydivers from "Tennessee Skydiving" jumping in with the American flag. The scheduled air show act is "Team Aeroshell," a four-ship precision aerobatics formation team, which flies the World War II era T-6 Texan trainer airplane. In addition to the air show and fireworks, numerous civilian and active-duty military aircraft will be on static display.

Tentatively confirmed static displays include a U.S. Air Force T-6A Texan II, a U.S. Army UH-60 Blackhawk, two U.S. Navy TH-57C Sea Rangers, the Tennessee Highway Patrol's UH-1H Huey, a Vanderbilt Lifeflight Eurocopter EC-135, a Civil Air Patrol Cessna 182 Skylane, the Momentum Foundation's OH-58A Kiowa, as well as a Lockheed-Canadair CT-33 Shooting Star, North

American AT-6D Texan, Stearman and Lionheart biplanes, the Beechcraft Heritage Museum's 1946 G17S Stag-gerwing and 1947 Model 35 Bonanza", Yakolev Yak-52, Loehle 5151 Mustang, Loehle P-40 Flying Tiger and other displays from the Loehle Aircraft Corporation and the Experimental Aircraft Association.

In addition, rides in a WWII-era "Stearman" biplane will be available to the general public for purchase on Saturday.

The attendance of all aircraft is schedule and weather dependant.

Food and drink concessions are manned by Kiwanis Club volunteers as a fundraiser, but water coolers are allowed; however no alcoholic beverages or glass containers are allowed.

The public is encour-



Team Aeroshell, a four-ship precision aerobatics formation team, will be the headliner of the Tulahoma Kiwanis Club's annual Fourth of July celebration. The free air show and fireworks display will take place tonight at the Tulahoma Regional Airport. (Photos by Erik Hildebrandt)

## OSI reminds you when to call investigators

Air Force Office of Special Investigations Detachment 106 reminds base members about operations security and explains the conditions of reportable situations.

Air Force Instruction 71-101, Volume 4, requires all active-duty Air Force, Air Force Reserve and Air National Guard personnel (when federalized), as well as Air Force civilian employees to report the following situations:

- Personal contact with an individual (regardless of nationality) who suggests that a foreign intelligence or any terrorist organization may have targeted them or others for possible intelligence exploitation.
- A request by anyone (regardless of nationality) for illegal or unauthorized access to classified or unclassified controlled information.
- Contact with a known or suspected intelligence officer to include attaches' from any country.
- Contact for any reason, other than official duties, with a

foreign diplomatic establishment, whether in the United States or abroad. Note: Certain Air Force members and civilian employees in positions designated as "sensitive" by their Air Force component may be required to notify their commanders or supervisors in advance of the nature and reason for conducting a foreign diplomatic establishment.

- Activities related to planned, attempted, actual, or suspected espionage, terrorism, unauthorized technology transfer, sabotage, sedition, subversion, spying, treason or other unlawful intelligence activities targeted against the Department of the Air Force, other U.S. facilities, organizations or U.S. citizens.
- Information indicating military members, civilian employees or Department of Defense contractors have contemplated, attempted, or effected the deliberate compromise or unauthor-

ized release of classified or unclassified controlled information.

- Unauthorized intrusion into U.S. automated information systems, whether classified or unclassified; unauthorized transmissions of classified or unclassified controlled information without regard to medium, destination or origin.
- Unauthorized attempts to bypass automated information systems security devices or functions, unauthorized requests for passwords, or unauthorized installation of modems or other devices into automated information systems (including telephone systems) whether classified or unclassified.

The OSI detachment has made the reporting process simple.

Those who are unsure if a situation requires a report or if you have any questions, contact Special Agent Matt Bryant, Special Agent Matt Page or Special Agent Jennifer Olmstead at 454.7820.

## Shred from page 3

saving the taxpayers precious test and support funds to be used in a more effective manner," Bowden said.



ATA employees Vickie Seals (left) and Andrea Stephens prepare to deliver materials to the certified Cintas driver as part of the recent bulk shred day. (Photo by Rick Goodfriend)

aged to bringing chairs or blankets for seating and a flashlight will be handy due to limited lighting after dark.

In case of rain, the air show will be held on Saturday.

For more air show details and updated information, please see their website at [www.kiwanis-fireworks.com](http://www.kiwanis-fireworks.com).

Information provided by the Tulahoma Kiwanis Club

## Former Sverdrup executive, Lew Rittenhouse, dies

Lewis (Lew) Eugene Rittenhouse, 82, of Tullahoma passed away June 16.

A native of Glen Park, Ind., he was born July 17, 1928, to Melvin A. and Edyth Sherwood Rittenhouse.

After graduating from Lew Wallace High School in 1946, Rittenhouse enlisted in the Navy and served from 1946-1950 and then from 1950-1952 in the inactive naval reserve.

He attended Valpariso University and graduated with a Bachelor of Science degree in aeronautical engineering from Purdue University in 1956. He later earned a Master of Science degree in aerospace engineering from the University of Tennessee Space Institute in 1969.

Retiring in December 1984 after 28 years of service with Sverdrup/Arnold Research Organization (ARO) as the Aeropropulsion Systems Test Facility (ASTF) branch chief. He also

served as the vice president of European Operations for ARO and was manager of the Amsterdam office, deputy director of Engine Test Facility (ETF), branch manager of the technology applications branch and supervisor of the aerodynamics section of the Propulsion Wind Tunnel (PWT) facility.

After his early retirement, he continued to provide consulting engineering in Minneapolis and Huntsville, Ala.

Rittenhouse was the author of 36 AEDC technical reports on aerodynamic testing, gas dynamics and Magneto-Hydrodynamics (MHD) and several published articles in professional journals, as well as numerous presentations at professional and technical seminars and symposia.

He was an associate fellow of the American Institute of Aeronautics and Astronautics as well as regional and Tennessee sec-

tion director, receiving several awards; a charter member of the National Management Association Arnold Chapter and member of the executive committee; a founding life member of the Bonanza/Baron Museum of the Staggerwing Museum Foundation, Inc.; and Jaycee of the Year for Tullahoma after serving as state-wide chairman of the state junior golf tournament sponsored by the Tennessee Jaycees.

Returning to his days of youth, he loved to ride his 1997 Harley Heritage Springer.

He is survived by his wife Linda; daughter Laura Lee Rittenhouse Smith (Jack), Tullahoma; grandchildren Shane Y. Woodward (Ryan), Tullahoma; Hayley E. Patton and Rachel Patton of Lexington, Ky., and great-grandchildren Lillian and Carter Woodward, Tullahoma. He is also survived by a sister Marilyn Rittenhouse Harris of Honolulu.

## Milestones

### 35 YEARS

John Jordan, ATA  
Joe Mason, ATA

### 30 YEARS

Jeannie Bowden, ATA  
Jeffrey Waldo, AF

### 25 YEARS

Laverne Cox, ATA  
Dennis Eggert, ATA  
Janet Feller, ATA  
Frank Hayworth Jr., ATA  
Jeffrey Henderson, ATA  
Rita Perry, ATA  
William Scott, ATA

### 20 YEARS

Lance Baxter, AF  
David Ferrell, ATA  
William DiNatale, ATA  
William Sudberry, ATA  
Mitchell Turrentine, ATA

### 15 YEARS

Brian Baggett, ATA  
Jerry Bailey II, ATA  
Joane Cassidy, ATA  
Nelson Crouch, ATA  
Jason Daugherty, ATA

### 10 YEARS

Amber Bowen, ATA  
John Finke, ATA  
James Harmon, FRC  
Deborah Myers, ATA  
Roger B. Newton, AF

### 5 YEARS

Christopher Bunch, ATA  
Donald Carroll, ATA  
Brent DeSalvo, FRC  
Billy Farless, ATA  
Nickolas Galyen, ATA  
James Harding, ATA  
Michael Key, ATA  
Kip Luttrell, ATA  
Jack Murdock Jr., ATA  
Charles Powers, ATA  
Nathan Payne, ATA  
Erin Robinson, ATA



Jordan

George Vandagriff, ATA  
David Wetzell, ATA

### INBOUND MILITARY

Lt. Col Gregg Leisman, AF  
Maj. Mitizi Weems, AF

### OUTBOUND MILITARY

Maj. Rodrick Koch, AF  
Maj. Brian Brown, AF  
Lt. Col. Vanessa Bond, AF  
Lt. Col. James Colebank, AF

### RETIREMENTS

Richard McWhite, 37 years

### NEW HIRES

Troy Bisby, AF  
Josh Cooke, AF  
Emily Elizondo, AF  
Carl Guerette, AF  
Cody Hodge, AF  
Allen Miller, AF  
Herman Peeler, AF  
Tyler Neale, AF  
James Stewart, AF

### PROMOTIONS

John Richardson, ATA  
Michael Tucker, ATA

### GRADUATE/DEGREES

Derek Meeks, ATA, Masters  
Jean Paul Mihigo, ATA, Masters  
James Glover, ATA, Bachelors

## New medallion available for veterans' graves in private cemeteries

**Washington (AFNS)** - Secretary of Veterans Affairs Eric Shinseki announced June 29 that the Department of Veterans Affairs is offering bronze medallions to attach to existing, privately purchased headstones or markers, signifying a deceased's status as a veteran.

"For veterans not buried in a national or state veterans cemetery, or those without a government grave marker, VA is pleased to offer this option that highlights their service and sacrifices for our country," said Secretary Shinseki.

The new item can be furnished instead of a traditional government headstone or marker for veterans whose death occurred on or after Nov. 1, 1990, and whose grave in a private cemetery is marked with a privately purchased headstone or marker.

Under federal law, eligible veterans buried in a private cemetery are entitled to either a government-furnished grave

marker or the new medallion, but not both.

Veterans buried in a national or state veterans cemetery will receive a government headstone or marker of the standard design authorized at that cemetery.

The medallion is available in three sizes: 5 inches, 3 inches and 1 1/2 inches in width. Each bronze medallion features the image of a folded burial flag adorned with laurels and is inscribed with the word "Veteran" at the top and the branch of service at the bottom.

Next of kin will receive the medallion, along with a kit that will allow the family or the staff of a private cemetery to affix the medallion to a headstone, grave marker, mausoleum or columbarium niche cover.

More information about VA-furnished headstones, markers and medallions can be found at <http://www.cem.va.gov/cem/hm/hmtype.asp>.

VA officials are developing an application form for ordering the

medallion.

Until it is available, applicants may use the form for ordering government headstones and markers, VA Form 40-1330.

Instructions on how to apply for a medallion are found on the VA website at [www.cem.va.gov/hm\\_hm.asp](http://www.cem.va.gov/hm_hm.asp).

Veterans with a discharge issued under conditions other than dishonorable, their spouses and eligible dependent children can be buried in a VA national cemetery.

The new medallions will be available only to veterans buried in private cemeteries without a government headstone or marker.

Families of eligible decedents also may order a memorial headstone or marker when remains are not available for interment.

Information on VA burial benefits can be obtained from national cemetery offices, from the VA website at [www.cem.va.gov](http://www.cem.va.gov) or by calling VA regional offices toll-free at 1-800-827-1000.



**Reduce.  
Reuse. Recycle.**

## Arnold Golf Course 454-7076

**Mulligan's Grill at Arnold Golf Course will undergo a major renovation beginning July 6.** This project includes new counters that will extend across the room and include an order station and pick-up station, the bulkhead will be removed, a digital menu board with LCD monitors will be added, a grab and go cooler will be built into the counter for easy access to salads, cold sandwiches, desserts and more. A highlight of this endeavor will be the addition of Starbucks coffee. Mulligan's Grill will now be a "Proud to Serve" member of the Starbucks brand. Mulligan's Grill will remain open during these improvements however, due to the magnitude of the renovation, menu selections will be limited. Dining will be available inside and on the patio during this 60-90 day project. A grand reopening with ribbon cutting will be scheduled upon completion of this improvement project.

**Junior Golf Academy** Session 2 starts July 12. The Junior Golf Academy helps juniors experience a game of a lifetime featuring instruction in all phases of the game of golf. The Academy also stresses the importance of honesty, integrity, etiquette, history and excitement that is the game of golf. Instruction includes full swing, short swing, putting and chipping, rules and etiquette. Each session is limited to a maximum of ten students. Entry fee is \$149 per session if needing clubs or \$99 if using their own clubs. Session 2 will be July 12-16 from 8:30-10 a.m. each day. Call to sign up.

Arnold Golf Course will host the annual **Tulahoma City Medal Play Championship** with an 8 a.m. shotgun start both days, July 24 and 25. The field will be flighted depending on the number of participants. Second round play will be flighted based on first round scores. Second round score improvement limit will be 7-15 percent as determined by the Tournament Director. Percentage of improvement limit to be drawn at the completion of the second round. Prizes will be awarded in each flight. This tournament is open to the first 72 players to sign up. Priority for riding carts is given as applications are received. Payment is required at time of registration. Entry fee is \$50 for advanced green fee players and \$70 for others. Price includes one free practice round during the week of July 19-23. Cart fee is extra at \$12 each day per round. Registration in person is recommended. Deadline for sign up is close of business July 21. For more information call 454-7076.

**Range Rat Program** continues through July 31. During this time, the first 25 customers making a minimum \$25.50 e-key purchase of range balls will receive a Range Rat t-shirt and their name entered into the grand prize drawings. Anyone who finds a green money ball in your range basket instantly wins two free range tokens for 24 balls each and your name is entered into the grand prize

drawings. Compete in the skills test competitions and win cash prizes. Closest to Pin – July 2, 12:30 p.m.; Bunker Shot – July 9, 12:30 p.m.; Long Drive Contest – July 23, 12:30 p.m.; Big Break Contest – July 30, 12:30 p.m. Customers who purchase a range key, money ball winners and winners in the skills challenges are eligible for the grand prize drawings: 7th place - \$25 gift certificate; 6th place \$25 gift certificate; 5th place \$50 gift certificate; 4th place \$50 gift certificate; 3rd place \$75 gift certificate; 2nd place \$125 gift certificate and Grand Prize \$250 gift certificate.

**Unlimited golf** every Tuesday and Thursday for \$10 per person. Normal cart fees apply.

**Upcoming event:**  
Club Championship,  
August 21-22

## Arnold Lakeside Center 454-3350

**Trivia Contest** will be held beginning at 6 p.m. July 30. 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. A tutorial will be given promptly at 6 p.m. to all participants prior to the start of the game. The game will begin immediately following the tutorial. Six rounds of questions will be administered consisting of three questions in each round. Each round is worth ten points. The team with the most points at the end will be the winner. Prizes will be given for first and second place. Ties will be broken by a trivia play-off.

**Wednesday Lunch** is available for dine in or carry out from 11 a.m. to 1 p.m. Call ahead to 454-5555 to place orders. No delivery available. For better service, you may call on any day and preorder. In addition to the Hap's Pizza menu, chef salad is available for \$4.50 which comes with ham, turkey, cheese and boiled eggs. Add grilled or fried chicken for \$2 more. Call to see what the Surprise Wednesday Special will be. The special could include items such as homemade chicken salad or lasagna.

**Movie nights** are every Thursday with a movie start time of 6 p.m. and dinner available from the Express or Pizza menus from 5-9 p.m. The schedule for July is: **July 1** – Throwback Movie Night from 1986 "Top Gun," rated PG starring Tom Cruise and Kelly McGillis. Macho students at an elite U.S. flying school for advanced fighter pilots compete to be best in class while one romances the teacher. **July 8** – "Date Night," rated PG-13 starring Steve Carell and Tina Fey. In New York City, a case of mistaken identity turns a bored married couple's attempt at a glamorous and romantic evening into something more thrilling and dangerous. **July 15** – "Iron Man 2," rated PG-13 starring Robert Downey, Jr. and Gwyneth Paltrow. Billionaire Tony Stark must contend with deadly issues involving the government, his own friends, as well as new enemies due to his superhero alter ego. **July 22** – "Diary of a Wimpy Kid," rated PG starring

Zachary Gordon and Steve Zahn. Greg Heffley documents his trials with middle school social landmines. **July 29** – Throwback Movie Night from 1977 "Star Wars Episode IV: A New Hope," rated PG starring Mark Hamill, Carrie Fisher and Harrison Ford. Luke Skywalker leaves his home planet, teams up with other rebels and tries to save Princess Leia from the evil clutches of Darth Vader.

**Friday night dining room specials available from 5-9 p.m. July 2:** Beef Liver and Onions \$6.95 members, \$7.95 non members. First Friday Jam night will be held **July 9** due to the 4th of July holiday weekend. **July 9:** Crawfish Boil, 1 lb. whole (pre-cooked), \$12.95 for members, \$13.95 for non members. First Friday Jam night will be held 6-10 p.m. **July 16:** Veal Parmigiana \$9.95 members, \$10.95 non members. **July 23:** Prime Rib for Two \$31.95 members, \$32.95 non members. **July 30:** Peel-N-Eat Shrimp, \$12.95 members, \$13.95 non members. Please call for reservations to ensure special is available. All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

**Saturday availability and specials: July 3:** Cornish Game Hen \$9.95 members, \$10.95 non members. **July 10:** dining room closed; to go Express and Pizza menu only. **July 17:** Chicken Fried Steak \$9.95 members, \$10.95 non members. **July 24:** dining room closed; to go Express and Pizza menu only. **July 31:** Never-ending Pasta Bowl (three types of pasta and three types of sauces), \$8.95 member, \$9.95 non member. The dining room is open on Saturdays from 5-9 p.m. unless otherwise specified. Please call for reservations to ensure these specials are available. All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

## Family Member/Youth Programs (FamY) 454-3227

**Camp Adventure continues through Aug. 6.** Camp Adventure is a day camp for children who have completed kindergarten through age 12.

The camp is sponsored by 704th Services and run by skilled professionals through the University of Northern Iowa. Activities are held Monday through Friday at the Youth Center (building 3055, previously

## Mission Support Division hours of operation:

**Arnold Lakeside Center** – Special function luncheons available. Call 454-3350 for arrangements. Catering/Management offices Tuesday-Friday 10 a.m.-3 p.m.; Lunch: limited menu Wednesdays, 11 a.m. – 1 p.m., call 454-5555 to place orders; Dinner: Arnold Express Menu or Hap's Pizza only Thursday 5-9 p.m., dinner or Arnold Express Menus and Hap's Pizza Friday and Saturday 5-9 p.m.; Main Bar Thursday 4:30-8:30 p.m., Friday and Saturday 4:30-9 p.m.; Social Hour Friday 4-6 p.m., Movie Night Thursday 6 p.m.

**Family Member/Youth Programs** – Tuesday through Friday 10 a.m. – 6 p.m., Saturday 12-5 p.m., First Friday Movie Night 5-8 p.m.; Camp Adventure runs 1 June through 6 August 7:30 a.m. – 4:30 p.m. Monday through Friday, During Camp Adventure Open Rec is open Monday through Friday 4:30 – 6 p.m. only.

**Outdoor Rec** – Main Office, Check In, Marina and Auto Shop Tuesday through Sunday 8 a.m. – 6 p.m., FamCamp Store Tuesday through Friday 3-5 p.m., Saturday and Sunday 8-11 a.m., 2-5 p.m. Lifeguards begin Memorial Day weekend GLC beach daily 10 a.m. – 6 p.m., ALC beach Saturday and Sunday 10 a.m. – 6 p.m.

**Fitness Center** – Monday-Friday 5 a.m.-9 p.m.; Saturday 8 a.m.-4 p.m.; Sunday 12-5 p.m.

**Arnold Golf Course** – Pro Shop and Driving Range daily 7 a.m.- dusk, Mulligan's Grill: daily 7 a.m. – 2 p.m.

**Recycling** – Monday through Friday 7 a.m. – 4 p.m.

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

**Barber Shop: by appointment** – Monday, Wednesday & Friday 8 a.m.-2p.m.; Thursday 8 a.m.-noon

known as Community Activities Center) from 7:30 a.m. to 4:30 p.m.

Children may attend any or all weeks but attendance information should be completed at time of registration.

Each week is set to a theme and activities are planned to coincide with that theme including field trips to local attractions.

Morning and afternoon snacks and beverages will be provided.

Parents must supply their child with a daily sack lunch to include beverage (no carbonated beverage of any kind). Ensure that lunches are clearly marked with child's name. Cold items can be accommodated in the central refrigerator; however, meals will not be able to be heated.

Outdoor and swimming activities are planned throughout the week (weather permitting).

Each child should bring daily to camp an extra pair of clothing, swimsuit, towel and sunscreen, if needed. Closed toe shoes must be worn at all time during camp.

Fill out the Camp Adventure Application and return it, along with the other required documentation and weekly fees, to the Youth Center no later than two weeks prior to start date.

For questions or more information call 454-3277.

The weekly themes are listed below:

**Week 6: July 6-9**  
**Leaping Through the Looking Glass**

**Week 7: July 12-16**  
**Wild Things & Warm Fuzzies**

**Week 8: July 19-23**  
**Super Sports Spectacular**

**Week 9: July 26-30**  
**Amazon Jungle Rumble**

**Week 10: August 2-6**  
**An Invitation to a World Celebration**

**Missoula Children's Theatre** presents their production of Treasure Island.

Auditions will be held at 4:30 p.m. July 5 at the Manchester Performing Arts Center (MPAC) for children who have preregistered.

Children eligible to preregister are those who have completed first grade through those still in 12th grade.

Participation is open to all AEDC families and the local surrounding communities.

Preregistration is \$15 (\$10 for additional children in the same household) and ends July 2. Late registration or cancellation fee of \$5 will be applied after July 2. Once each age group is filled to capacity no additional children may sign up. A total of 60 cast members and four assistant directors will be filled.

Auditions will consist of two hours in which every child must participate to be considered for a part in the play. Two additional hours may be required for some cast members.

Youth Programs' staff will be at the MPAC June 4 and 25 from 11 a.m. – 3 p.m. to register those from the community.

Rehearsals continue throughout the week culminating with a performance to be held at 3 p.m. July 10 with \$8 admission for adults and \$5 for children.

## Fitness Center 454-6440

**Hot 250 cycling program** will be held the entire month of July. Participants are challenged to log 250 miles along the road using their own bike or one checked out from the Fitness Center. Incentives will be given to those who complete the 250 miles.

**Random Fitness Initiative** continues. Twice a month the Fitness Center staff will roam the base during lunch and award people for showing self initiative

for working out on base at a location other than the Fitness Center. Those selected will receive a prize.

**Karate class is held 3-5 p.m. Tuesdays and Thursdays** on the main gym floor. This class is taught by volunteer Don Gardner of ATA. For more information on these classes contact Don at 454-3497.

The Fitness Center staff welcomes any **individual request for assistance** in developing a specialized fitness plan to help complete your fitness and health objectives. Call for assessments, instruction and fitness/workout plans.

## Outdoor Rec (ODR) 454-6084

**Paintball is suspended for July and August due to high heat. Watch for it to return in September.**

Come with Outdoor Rec. and discover **Cumberland Caverns**, Tennessee's largest show cave and a U.S. National Natural Landmark.

The cave displays some of the largest underground rooms and most spectacular formations in America.

The trip will depart 8 a.m. July 24 and arrive for the 10 a.m. scenic tour followed by the spelunking tour at 1 p.m. Arrive back at Outdoor Rec. around 5:30 p.m.

Cost is \$41 and is open to ages 10 and up.

Deadline to sign up is July 9. After that date a \$10 late registration fee will be applied. A \$10 cancellation fee will be applied after July 19.

This adventure trip through Rocky Top's rocky bottom will give the first-time spelunker a taste of the untamed-underground and show the experienced caver unsurpassed sites and formations.

It is apparent this is not your usual cave tour as it begins near the "Devil's Quarry."

Who will make it through the infamous "Lemon Squeezer" and "Bubble Gum Alley?"

Tight squeezes, cave crawling, and ladders-in-the-caverns will make this an adventure to brag about. Encounter unique formations, spectacular gypsum crystals and plenty of mud along the way.

The friendly and informative guides will lead you through the passageways and help you discover what Tennessee's underground has to offer.

The cave temperature is cool so wear appropriate clothing.

See BRIEFS, page 15



**Sgt. Jason Layne and Bikkel, AEDC's detection and tracking dog, visited with the campers at Camp Adventure. Sgt. Layne discussed safety, not to approach police dogs without he consent of the handler and how to approach the K-9 if approved by the handler. He also discussed how much training and responsibility goes along with being a Police K-9 Officer and performed a K-9 demonstration which included: obedience, evidence recovery and detection. (Photo provided)**

# GOLDEN BATON RELAY

The Xtra-Ordinary Moon Pies were victorious in the 25th anniversary running of the Golden Baton Relay Race. The Moon Pies (Col. Eugene Mittuch, Capt. Alex Hausman, 1st Lt. Marc Honrath and Joel Fortner) completed the race in 35:02, a time that was 44 seconds quicker than last year's first place team. The "best name" award went to the "Fugazed Dingle-Dobbers" (Josh Jones, Tech. Sgt. John Mankston, Airman 1st Class Eric Ball and Doug Yurich). The "We Got BPeed On" won the award for the best costume (Lt. Col. John Glover, Leslie Tuttle, Capt. Aaron Finley and Maj. Matt Loughney).



Photos by Eric Bjorn



**Briefs from page 12**

Anyone with claustrophobia, knee or back injuries are not recommended for this trip.

Remember to bring money for food and drinks along with a change of clothes because spelunking will get you muddy. Call 454-6084 to sign up and for more information.

**Upcoming Events:**

Indoor Rock Climbing Adventure, Urban Rocks Gym in Chattanooga, Aug. 7, 8 a.m. – 5 p.m., age 14 and up, \$38

Ocoee Rafting Trip, Aug. 14, 6:30 a.m. – 6 p.m., age 12 and up, \$65

Ocoee Rafting Trip, Sept. 18, 6:30 a.m. – 6 p.m., age 12 and up, \$65

Blue Man Group, Tennessee Performing Arts Center, Nov. 20, 5 p.m. – 12:30 a.m., age 10 and up, \$85

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**Wingo Inn**  
 454-3051
 

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

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**Gossick Leadership Center**  
 454-3024
 

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The **Gossick Leadership Center (GLC)** is now part of the Mission Support Division. Events such as meetings, conferences, luncheons, dinners, etc. may be booked through the Services Conference Center Manager (CCM) up to one

year in advance.

Requests must be made in writing by email to [arnold.glc@arnold.af.mil](mailto:arnold.glc@arnold.af.mil). All event coordinators are required to sign an agreement.

Official unit functions are authorized at no charge and are defined as bona fide official meetings or training

held as part of the normal duty day. Unofficial and private functions may be held for authorized users at a fee.

Community members may host events with the approval of the Mission Support Director for a fee. Outside food and beverages are not allowed.

First consideration must be given to Arnold Lakeside Center.

In the event they cannot accommodate, an outside

source may be utilized with CCM approval.

For more information contact the CCM at 931-454-3024.