



# HIGH MACH

Serving the World's Premier Flight Simulation Test Center



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October 1, 2010

## 2010 Combine Federal Campaign kicks off today

AEDC is gearing up for the 2010 Combined Federal Campaign (CFC).

AEDC 2010 CFC goal is to raise \$50,000.

CFC is the world's largest and most successful annual workplace charity campaign. Since its inception, the program has received donations in excess of \$5.5 billion from the federal community.

More than 2,000 organizations have been approved to participate in this year's Combined Federal Campaign.

AEDC's key CFC events are the Charity Fair, which is open to all AEDC employees and takes place Tuesday, and the CFC Blitz, which is open to DoD civilians and military personnel, to contact all employees and receive all pledge cards between Wednesday and Oct. 8.

The Charity Fair will be held from 11 a.m. to 1 p.m. in front of the A&E Building.

Free hamburgers and hotdogs will be served while supplies last, and promotional gifts will be given away.

Approximately 20 local charities There will be represented.

All AEDC employees are invited to come and see what valuable services the

charities provide.

CFC Blitz will begin Wednesday.

By Oct. 8, 100 percent of employees should be contacted with 100 percent of pledge cards turned in by this date.

For more information regarding the AEDC's 2010 Combined Federal Campaign, contact Jeannie McFaddin, chairperson at (931) 454-4583 or Tony Echols, deputy chair at (931) 454-4291.

## FRC union employees ratify collective bargaining agreement

By Shawn Jacobs  
Aerospace Testing Alliance

Employees of Future Research Corp. (FRC) voted Sept. 15 to ratify a new three-year labor agreement with the company.

One hundred percent of the employees casting ballots voted for the agreement which takes effect today and runs through Sept. 30, 2013. The employees are members of the International Brotherhood of Electrical Workers (IBEW).

FRC, based in Huntsville, Ala., is a sub-contractor for Aerospace Testing Alliance (ATA), the operating contractor at AEDC.

FRC is the Communications Branch within ATA and is responsible for telephone services, land mobile radio, base paging, cellular phone, CATV, Giant Voice, Mass Notification and other radio

frequency systems at Arnold, according to Stephen George, FRC program manager. FRC is also responsible for the Arnold post office; however, no union employees support that effort.

"I was very pleased that we were able to reach the agreement," said Jimmy Nance, president of the Air Engineering Metal Trades Council (AEMTC), a bargaining unit of 12 unions. "Everybody seemed to be very pleased; in these tough economic times it's a good thing to get this three-year deal."

"FRC is very pleased that, not only was the contract ratified, but by a 100 percent vote," said George, who assisted the FRC negotiation team.

He said FRC has a total AEDC work force of 17, eight of whom are represented by the union.

## AEDC Fellow, turbine engine expert Robert E. Smith Jr. passes away

Robert E. Smith Jr., AEDC Fellow and a retired executive who held numerous positions with Sverdrup Technology, passed away Sept. 25. He was 81 years old.

Below is a re-print of a story on Smith that High Mach did in 2005 as a part of the "Project Pioneer" series.

Growing up in Pulaski, Tenn., as a young boy during the depression era, Robert E. Smith Jr., never dreamed a country boy like himself would end up at a world-renowned place like AEDC.

Based on his love of gas-engine-powered model airplanes, Smith chose a path that would forever change the course of aerospace engine testing technology.

After graduating from high school in 1947, he attended Vanderbilt University as a mechanical engineering major. He graduated magna cum laude in June 1951.

June 1951 was an incredibly eventful month for Smith. Five days after graduation, he married his college sweetheart, and wife of 54 years, Beverly Patterson. Ten days after the wedding, he started to work for the Arnold Research Organization (ARO, Inc.), operating contractor at AEDC. His first workday was the day President Harry S. Truman dedicated the center, June 25, 1951.

With no buildings in existence at AEDC except for the warehouse, Smith reported to St. Louis to begin his work so he did not attend the dedication, but was aware of the unique mission the center was about to embark upon. He had no idea what role he would play in the success of the center until years later.

"I thought it would probably be a few years' tenure," he said. "It turned out to be an incredible 40-year career. It's been a great place to be!"

### Looking Back

After serving 40 years in various engineering and management positions for various Sverdrup companies at AEDC, Smith humbly looks back on his career, and the contributions he made to AEDC's mission.

While the construction of the AEDC test facilities was in progress, the operating contractor, ARO, Inc. sent employees to

aircraft and engine test facilities all over the country for hands-on training. Smith had the opportunity to go to Cleveland and work with what

was known at the time as the Lewis Laboratory of the National Advisory Committee on Aeronautics, which eventually became National Aeronautics and Space Administration or NASA. At the time, Lewis Lab was the premier U.S. government laboratory engaged in jet engine testing, development and research.

After a year in Cleveland, Smith moved to AEDC in the summer of 1952 and began his pioneering work to evolve improved standard test equipment and test techniques that would advance the state-of-the-art for testing jet engines.

"I was fortunate to be assigned to Lewis Lab because before jet engine altitude testing started at AEDC, Lewis was doing the same types of tests, but only on a smaller scale," Smith recollected.

His first task was to help design the special test equipment and service systems required to install jet engines in the test cells that were under construction by the Corps of Engineers for the U.S. Air Force. Those first test chambers were essentially copies of the test chambers that were liberated by the Allied Armies in Germany during 1944.

Early in his career, Smith conceived, designed and developed the basic engine thrust stand measuring system for Engine Test Facility (ETF) test cells. After less than one year of design, construction, and development, the thrust stand was operationally ready on schedule and supported the first sea level test in the ETF Run-up Stand in August 1953.

This same thrust measuring system also

See SMITH, page 10



Smith

## STEM booth at Polly Crockett festival a "rousing success"

About 20 volunteers from the Arnold Association of Professional Societies along with seven UTSI students set up a Science, Technology, Engineering and Mathematics (STEM) booth during the recent Polly Crockett Days in Cowan.

Volunteers included both Air Force and ATA engineers and scientists. All total, 140 children, ranging from pre-school to 9th grade, primarily from schools in the region, participated.

Volunteers helped children design and build a straw rocket while talking about how rockets work. An engineer helped them with three launches of a straw rocket with the objective to land on a target about 27 feet away from the launcher. Students were given a certificate from AEDC saying they participated and a small gift from the American Institute of Aeronautics and Astronautics (AIAA).

There were approximately 11 winners of the accuracy contest; all of them came within seven inches of the target center. One child actually landed the rocket in the small 2-inch-diameter can in the middle of the target.

"The event was a rousing success," Tom Best, director of engineering and technical management said. "The kids were very excited about the building and competition. The engineers who participated were very effective in working with the kids and all felt very satisfied in possibly making a difference in the kids' lives."



## Fiscal year brings changes to post office, cafeteria services

Today marks the beginning of fiscal year (FY) 2011. It also marks the beginning of changes to both the Arnold Post Office and the A&E Cafeteria.

The changes concerning the AEDC Post Office mail delivery have been made due to Air Force Materiel Command (AFMC)-directed efficiencies for all Air Force postal units.

The following hours reference the normal business day delivery of AEDC mail:

- AEDC drop box:
  - Mail pick-up from the AEDC mail drop box will occur at 11:30 a.m., Monday-Friday.
  - Mail weighing more than 13 ounces cannot be placed in the drop boxes.
  - Mail dropped off in the outside drop box after 11:30 a.m. will not leave AEDC until the following business day.
- AEDC window service:
  - Window services will be provided for official business mail only from 1-3 p.m. daily.
  - There will be no personal mail services of any kind offered at the Arnold Post Office located in building 685.
- AEDC delivery schedule/pick-up:
  - Delivery will be made to all AEDC mail stops on Tuesday and Friday of each week only.
  - A key to a designated, labeled, in-wall mail box will be given to each building manager for pick-up of mail at the Arnold Post Office on non-delivery

days. All mail associated with each mail stop for that building will be sorted and separated by mail stop, but consolidated into one building mail box for pick-up. If building mail is not picked up by building manager or designee then building mail will be delivered on the next scheduled delivery date (Tuesday or Friday).

Air Force ADO offices will also be assigned a key to a designate, labeled, in-wall mail box to allow pick-up of their mail on non-delivery days as well.

Employees will also see changes in the food services arena, including menus reduced to feature more pre-made items, a change in the hours for breakfast in the A&E Cafeteria and price increases of 5-8 percent.

Beginning today, the A&E Cafeteria will have a reduced breakfast menu which will include pre-made breakfast items – breakfast sandwiches, biscuits, muffins – and juices and coffee. The hours for breakfast will be from 7-9:30 a.m.

While there will be no change to the lunch hours at the A&E Cafeteria, the menu will feature pre-made sandwiches and salads and pre-wrapped grill items (hot and cold sandwiches), chips and drinks.

At the Main Cafeteria, the lunch menu will continue to include a grill line with deli sandwiches; however the entrée side will have "self-serve entrees and side items and pre-made salads.

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## HIGH MACH

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An Air Force Materiel Command Test Center

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



### Vision

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

### Core Values

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



### Core Values

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

# Lean times? Listen to the "whispers"

By Col. Michael Panarisi  
AEDC Commander

I love this commercial on the radio ... a little boy whispers "I see wasted kilowatts."

For movie fans, this line is a familiar take-off on a classic scene in the late 1990s thriller "The Sixth Sense."

On the radio, the ad leverages this theme and communicates the reality that not everyone can see a wasted kilowatt, but they're out there.

Here at AEDC, that waste is literally a drain on our operations at a time when we can least afford it. Unless we listen to "Cole," we'll never build any headroom in lean budget years ahead. So we're on a mission to keep those precious dollars right here, and we need your help.

Fortunately, we're seeing a groundswell of ini-



Panarisi

tiatives aimed at conquering this large and growing problem.

But I need everyone's commitment in this campaign ... the real power in these ideas is in the "numbers."

Here's an example. Many of us work a relatively predictable schedule on a regular basis, so we're here on the order of eight hours a day. The rest of the day, we aren't chained to these pesky computers.

If you aren't actually

using the computer, the monitor is just sitting there "wasting kilowatts." Now I'm sure many of you are thinking "but it goes into the "power save" mode automatically." Well, yes it does, but notice we don't call it a "power free" mode. Even in this low power state, trons are flowing, and none of them are free.

Let's assume that if you leave the monitor on, "sleeping" overnight, it burns a measly penny's worth of juice. What's the big deal, right? Did you know there are over 3,000 monitors on AEDC?

That's over \$10,000 a year, and those dollars produce NOTHING! It's so easy for us to save this \$10,000.

Just turn off the monitor every time you leave your desk. The button is right there, just begging you to mash it down. It's just a

matter of discipline. It really doesn't impact your productivity, as it powers right back up almost instantly. It's nothing like the time sink hole of a re-boot. It's just an insignificant habit adjustment. Pull your CAC, tap the power button. Yes, for now we'll still leave the CPU running so the updates can execute while you are away, but the simple act of powering down the monitor actually makes a difference here.

We found a similar savings in hallway lighting. In our building, we ran a test case, and found no problems after we pulled half the bulbs from the overhead lights.

Multiply that across eight corridors and four floors, there are hundreds of bulbs, amounting to thousands of dollars saved every year. Plus, fewer bulbs to replace. And nobody is going to miss the glare on the floor tile.

This is the reality: these two ideas alone save almost one half of one employee's salary. Three more like this, and we've saved enough to preserve a part of our most important asset ... our work force.

We know our budget is declining, our test workload is not growing, but the nation can ill afford to let our capabilities dwindle

because we couldn't find the discipline to turn things off when we aren't using them.

Have you left a room and "forgot" to turn off the lights? Have you entered a work area only to find a fan blowing with no one around? As fall is upon us, are you already digging out a space heater when a sweater or jacket would do the trick? We just can't operate that way any longer.

Over the next few weeks, we will start rolling out more of these ideas. Not all will be as easy as the ones mentioned here, but will likely pay much bigger dividends.

Nothing is off the table. If you haven't been a part of the brainstorming on this issue, this is your chance. I've challenged to team to find us \$1 million in savings this year. It's out there, I know it.

None of these ideas will work without everyone pitching in and executing. The power is in the numbers.

Together, we can do this, and this is one effort that benefits us all.

So, to tug on just one more of my favorite commercials ... when you hear about a change in our operations that will contribute to this goal, "Just Do It!"

## Honor the past, support the future, exercise your right to vote this year

By Navy Lt. Leanne Carter  
Voting Assistance Officer

Absentee 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's Absentee Voting Week is Sept. 27-Oct. 4.

State primaries are over and it is time to ensure our votes are cast for the November elections.

Remember, November brings the opportunity to vote for:

- 435 members of the House of Representatives
- 36 of 100 Senate seats; 34 are six-year terms
- 37 state governors



Washington, D.C., delegate

Four major U.S. territory delegates

The Nov. 2 election is the time to speak your mind and place your ballot to make a difference in the country's direction. Every vote is important.

There will be a table with voting information at the Sept. 29 PT formation for those who need infor-

mation. Please contact your Voting Assistance Officers at any time for any questions or voters applications.

The base Voting Assistance Officers are Navy Lt. Leanne Carter, located in building 1099 Room 113 at work phone 454-5726, and 1st Lt. Rachael Clark, located in building 1103 second floor at work phone 454-4779.



Which would you rather have: a chef, a chauffer or a maid? Why?



Faye Ford

"A chauffer because I like to do my own cooking and cleaning."



Chris Gipson

"A maid. Since my wife and I both work, finding time for housework isn't easy. Having a maid would be great and allow more time for golf."



Keny Sweeney

"I think a chef would be nice. A chef would allow me to get a taste of the great meals of the world."



Diana Holland

"A maid because housework is too much of a chore and not fun to accomplish. It would give me more time to accomplish the things I enjoy."

## Redefining responsibility

By 2nd Lt. Tony Richardson  
20th Fighter Wing PA

Shaw AFB, S.C. (AFNS) – Responsible consumption of alcohol is an important message that we are constantly sending to Airmen. One death is too many deaths. One accident is too many accidents. However, I think we need to redefine the term "responsible."

Underage drinking has been an issue for society for awhile now. This is also true within our ranks. However, I'm not simply referring to the number of people who show up on the security forces blotter.

I'm talking about those 18 to 20-year-old Airmen who believe that they are being "responsible" by drinking off base at a friend's house. I'm talking about those 18-20 year-old Airmen who believe that they are being "responsible" because they stay in their rooms at the dorms to avoid being caught. I'm talking about the "enablers" who purchase the alcohol for minors and permit these behaviors to occur.

Let's be clear – underage drinking is a crime and should be prosecuted as such. The same thing goes for those who provide alcohol to minors or create the atmosphere to allow the crime to occur.

The fact that you did not get caught does not mean you are being responsible. Your life, your career and the lives of others are all at stake each time you make the wrong choice. No sip of alcohol is worth risking those precious things.

Do the right thing, especially when no one is looking. Ensure that your organizations, peers and subordinates are creating a culture that emphasizes the responsible consumption of alcohol.

Use the 0-0-1-3-W concept as a guideline: zero drinks if you are underage, zero drinks if you are driving, one drink per hour, three drinks maximum and always have a wingman.

The safety and security of our nation depends heavily upon the choices we make.

## 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%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.

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

## Retired general speaks of “lessons learned,” AEDC, at AAPS event

By Shawn Jacobs  
Aerospace Testing Alliance

Retired Maj. Gen. Robert Dickman treated luncheon guests to some of the wisdom he has gained during his distinguished career.

General Dickman, the executive director of the American Institute of Aeronautics and Astronautics (AIAA), spoke to the Arnold Association of Professional Societies (AAPS) Sept. 22 at the Arnold Lakeside Center regarding “Lessons from an Air Force National Security Space Career: From Particle Physics to Space Launch and Satellite Ops.”

AIAA is a professional membership technical society with more than 35,000 members in 79 countries.

Prior to retiring from the Air Force in 2000, General Dickman was the director of the Corporate Operations Office, and senior military officer for the National Reconnaissance Office in Washington, D.C.

General Dickman took some time afterward to share some of his insight and his impressions of AEDC with *High Mach*.

**HM:** As executive director of the AIAA what are your main responsibilities and concerns?

**General Dickman:** My main responsibilities are to provide service to our members. We’ve got members all over the world; about one-sixth of our members are international. Providing a forum for technical discussions is really what we’re about.

My main concern is work force. It’s “How do we replenish the aerospace work force?”

Many of us came in during the Apollo era or early shuttle era or another generation of airplanes. How do we bring the technical people through college, get them interested enough to be in college, enough in technical disciplines and then get into the work force and stay in the work force? I’m not the Lone Ranger; Boeing and Lockheed and every other aerospace company is working that same problem.

**HM:** That dovetails very well with the initiatives of AEDC’s Commander, Col. Michael Panarisi, who’s working locally to interest students in science, technology, engineering and mathematics (STEM).

**General Dickman:** I understand he brings local school teachers onto base; he’s done that a couple times. That is a great initiative.

**HM:** Looking at your professional biography, I would imagine AEDC and you have crossed paths on some level on a few occasions, especially in your role as the Deputy for Military Space in the office of the Undersecretary of the Air Force. If so, in what way and on what types of projects or programs?

**General Dickman:** Not as much directly as you might expect because I wasn’t on the air side I was on the space side, and so when I was in engine programs, and I was down here visiting the

DECADE facility before it was shut down. But I certainly interacted with AEDC at arm’s length because the kind of testing that is done here is so absolutely critical to so many of our weapons systems that making sure that our program managers understood what AEDC could do for them and how to be a good customer of AEDC was part of what I was trying to encourage.

**HM:** What do think of AEDC’s reputation?

**General Dickman:** I think you have a great reputation. I think people were more familiar with AEDC when aerodynamic testing was such a big thing, in the 1950s and 60s and into the 70s. I think part of what AEDC needs to be doing now is make people aware of how good you really are. People that know the community know you’re world class, but so many program managers don’t realize the resource that’s here that they could be using. It’s the same with commercial companies; commercial aviation companies could be using it.

**HM:** How important is the role that AEDC has played over the years in supporting the space program?

**General Dickman:** Over the years, very important. The test facilities for the rocket motors and the missiles, in particular, have been absolutely critical as we understand aging of our ballistic missiles. I think the challenge for AEDC in space is going to be to look 20 years into the future and say, “What are the test capabilities that

are going to be needed that today we can’t identify?” But they’re going to be needed sometime and to be ahead of that curve.

**HM:** What’s your take on hypersonic research in supporting space-based assets?

**General Dickman:** I think our [AIAA] president, former chief scientist at the Air Force, is fond of saying, “Hypersonics is the future of space transportation and it always will be.” What we need to do is figure out how to make it not “it always will be,” but “it is.” Hypersonic research is hard. Hypersonic systems will be very difficult, but Air Force Space Command has committed that its next generation space launch system is going to be a hypersonic first stage. So, where does AEDC fit into that? What kind of testing can be done? What things are going to need to be validated – not what we’ve done in the past – but what’s going to be needed to satisfy that particular problem? And then make sure the resources are there to help solve it.

**HM:** We recently had an AIAA-hosted technical excellence event on base that featured Sam Dougherty as the guest speaker. He is a technical fellow with Jacobs Engineering, Science and Technical Services (ESTS) Group contract at NASA’s Marshall Space Flight Center in Huntsville, Ala. In a short interview held at the presentation, he said the future for AEDC and other test centers is in



Retired Maj. Gen. Robert Dickman, the executive director of the American Institute of Aeronautics and Astronautics (AIAA), spoke recently at the Arnold Lakeside Center regarding “Lessons from an Air Force National Security Space Career: From Particle Physics to Space Launch and Satellite Ops.” (Photo by Rick Goodfriend)

remote and robotic testing capabilities done from space. What is your take on this and is there any move in this direction from either the Department of Defense (DoD), NASA or from industry?

**General Dickman:** I think the future for AEDC and your strength is in system level problem solving on things that have to do with flow, whether it’s flow of a turbine engine or flow over an aerodynamic surface or flow out of a rocket engine. It’s a unique skill within the government and even within NASA in many respects, you guys are world class. I think growing that skill, rather than looking for something completely different is probably where I would start.

**HM:** What are your thoughts about the recent direction NASA is taking in regard to some changing mission priorities?

**General Dickman:** It’s a very big question and

I’m going to give you a pretty small answer. I think the commitment of NASA to do more research and basic development is a good thing. I think we need to be doing far more of that if we’re going to be the premier space-faring nation in 2040 – not in 2020, but in 2040. We need to do basic research. We need to do the kind of things that this center is capable of, but not their traditional development tests that it’s done. I’m encouraged that NASA is going to do more funding in that regard.

**HM:** Is there anything else you’d like to mention?

**General Dickman:** I’m glad to be here. It’s a great place. As I said in my talk, I envy you guys – where you live, where you work, what you do and the risk/reward structure that says, “Sometimes you succeed and sometimes you fail, but you’re in the fray; you’re doing good work.”

### AEDC model on display at UTC



Dean of the College of Engineering and Computer Sciences at the University of Tennessee Chattanooga, Dr. William H. Sutton, AEDC Commander, Col. Michael Panarisi, Head of the Graduate School of Computational Engineering, UTC, and former Team AEDC member, Dr. Timothy W. Swafford, and former UTC Chancellor and Chair of the Board of Directors for the SimCenter: National Center for Computational Engineering, Dr. Bill Stacy, share war stories after the Sept. 28 unveiling of an F-111 Aardvark wind tunnel model on loan to the SimCenter from AEDC. (Photo by Jason Austin)

### At the Commander’s Community Reception



AEDC Commander Col. Michael Panarisi hosted a Commander’s Community Reception for area business and civic leaders last Sunday at the Arnold Lakeside Center. More than 70 community leaders from the surrounding counties attended the reception which provided Col. Panarisi an opportunity to thank the attendees for their continued strong support of AEDC and its people. He also gave the attendees an update of AEDC programs and outlined some of the challenges the center expects to face in the future. (Photo by Vickie May)

### CGOC collecting donations for “Let Freedom Ring”

The Company Grade Officer’s Council (CGOC) at AEDC is supporting the “Let Freedom Ring” event being held from 2-4 p.m. Nov. 7 at the Franklin County High School Gymnasium.

The CGOC is seeking donations of basic homecare items in support of this annual event, which is a military/veterans appreciation program supported by volunteers from AEDC and throughout the local area.

Donations will go to the veterans at the Alvin C. York Veteran’s Home in Murfreesboro, Tenn.

“We encourage everyone on base to check out the list of approved items at <https://cs.eis.afmc>.

[af.mil/sites/TeamAEDC/Announcements%20Library/Donation%20List.pdf](https://cs.eis.afmc) and consider making a donation to these veterans and in support of this worthy event,” said AEDC Investment Project Manager 2nd Lt. Rachael Clark.

There will be collection sites at the following locations, buildings 1099 and 1103, outside A&E Cafeteria in Building 100 and at the Main Cafeteria.

The list of approved items will be posted on the boxes at each collection point.

The collection will run until the close of business today.

For additional information, contact Lieutenant Clark at 454-4779.

The community organizations sponsoring this event are Trinity Christian Fellowship, Franklin County AM Rotary, and the

Winchester Christian Center International.

The committee members are Gayle Haywood (Chairperson), Rev. Bobby Beal, Rev. Marion Pope, Kathy Buchanan, Hazel Taylor, Jo Anne Shaver, Frances Brazier, Jessica May, Cynthia Weatherby, Tammy Goodwin, Jerry Campbell, Tammy Decker, Lt Rachael Clark, Lt Brad Chronister, Mike Foster and Larry Williams.

### Flu shots available for AEDC employees

Flu shots are available for base civilian personnel including ATA and subcontractors at the Dispensary.

The cost of the shot is \$15.

Please bring exact change or check made payable to ATA.

The shots will be administered Monday-Oct-8 and Oct. 11-15.

For any questions

or to schedule an appointment, please call 454-5385 or 454-4567.

Please do not leave a message as this will not schedule an appointment.

## Smoke alarms: up, down and all around

# AEDC Fire Department reinforces newer smoke alarm recommendations

In an effort to better educate communities throughout the U.S. about smoke alarm recommendations, the nonprofit National Fire Protection Association (NFPA) is promoting "Smoke Alarms: A Sound You Can Live With!" as the theme for this year's Fire Prevention Week campaign, Oct. 3-9.

NFPA has been the official sponsor of Fire Prevention Week for 88 years.

"Many homes may not have any smoke alarms, not enough smoke alarms, alarms that are too old, or alarms that are not working," says Daryl VanCise, AEDC fire prevention officer. "We want residents to understand that working smoke alarms are needed in every home, on every level (including the basement), outside each sleeping area and inside each bedroom. And, if a smoke alarm is 10 years old or older, it needs to be replaced."

Smoke alarms can mean the difference between life and death in a fire.

NFPA statistics show

that working smoke alarms cut the chance of dying in a fire nearly in half. But they must be working properly to do so. The association's data shows that many homes have smoke alarms that aren't working or maintained properly, usually because of missing, disconnected or dead batteries. Roughly two-thirds of all home fire deaths result from fires in homes with no smoke alarms or no working smoke alarms.

Interconnected smoke alarms offer the best protection; when one sounds, they all do.

This is particularly important in larger or multi-story homes, where the sound from distant smoke alarms may be reduced to the point that it may not be loud enough to provide proper warning, especially for sleeping individuals.

"Most people have a sense of complacency about smoke alarms because they already have one in their homes," says Judy Comoletti, division manager for NFPA public education. "Fire Preven-

tion Week provides an excellent opportunity to re-educate people about smoke alarms, new technologies and expanded options for installation and maintenance. Ultimately, we want this year's campaign to serve as a call to action for households nationwide to inspect their homes to ensure that their families have the full smoke alarm protection that's recommended."

The AEDC Fire Prevention Office offers the following tips for making sure smoke alarms are maintained and working properly:

- Test smoke alarms at least once a month using the test button, and make sure everyone in your home knows their sound.
- If an alarm "chirps," warning the battery is low, replace the battery right away.
- Replace all smoke alarms, including alarms that use 10-year batteries and hard-wired alarms, when they're 10 years old (or sooner) if they do not respond properly when tested.
- Never remove or dis-

able a smoke alarm.

• Arnold Village residents should call ext. 454-4040, Option 2, to report problems related to smoke detectors.

Fire Prevention Week

packages will be delivered to Arnold Village housing Tuesday.

If you have questions regarding smoke detectors call the AEDC Fire Prevention Office at ext.

454-5643.

To learn more about "Smoke Alarms: A Sound You Can Live With!," visit NFPA's website at [www.firepreventionweek.org](http://www.firepreventionweek.org)

<h3>Smoke alarms</h3> <p>Smoke alarms cut the risk of dying in a reported fire in <b>half</b>.</p> <p>Most homes (<b>96%</b>) have at least one smoke alarm (according to a 2008 telephone survey.)</p> <p>Overall, three-quarters of all U.S. homes have at least one working smoke alarm.</p> <p>Each year, nearly <b>3,000</b> people die in U.S. home fires.</p> <p>In 2003-2006, roughly two-thirds of home fire deaths resulted from home fires in homes with no smoke alarms or no working smoke alarms.</p> <p>No smoke alarms were present in <b>40%</b> of the home fire deaths.</p> <p>In <b>23%</b> of the home fire deaths, smoke alarms were present but did not sound.</p> <p>In more than <b>half</b> of the reported home fires in which the smoke alarms were present but did not operate even though the fire was large enough, batteries were missing or disconnected. Nuisance alarms were the leading reason for disconnected alarms.</p> <p>Most homes still have smoke alarms powered by battery only. In a 2007 American Housing Survey (AHS),</p> <p><b>67%</b> of the respondents who reported having smoke alarms said they were powered by battery only.</p> <p>In a 2008 telephone survey, only <b>12%</b> knew that smoke alarms should be replaced every 10 years.</p> <p>In fires considered large enough to activate a smoke alarm, hard-wired alarms operated <b>91%</b> of the time; battery-powered smoke alarms operated <b>75%</b> of the time.</p> <p>Interconnected smoke alarms on all floors increase safety.</p> <p>In a U.S. Consumer Product Safety Commission (CPSC) survey of households with any fires, interconnected smoke alarms were more likely to operate and alert occupants to a fire. (This includes fires in which the fire department was not called.)</p>	<h3>Fire</h3> <p>Cooking is the <b>#1</b> cause of home fires and injuries.</p> <p>Smoking is the leading cause of fire deaths.</p> <p>Heating is the second leading cause of home fires, fire deaths and fire injuries.</p> <p>Electrical failures or malfunctions are factors in roughly <b>50,000</b> reported fires each year.</p> <p>Roughly <b>30,000</b> intentionally set home structure fires are reported each year.</p> <h3>In 2008...</h3> <p>U.S. fire departments responded to <b>386,500</b> home fires.</p> <p>Home fires killed <b>2,755</b> people and injured <b>13,160</b>.</p> <p>Someone was injured in a reported home fire every <b>40</b> minutes.</p> <p>Roughly <b>8</b> people died in home fires every day.</p> <p>Fire departments responded to a home fire every <b>82</b> seconds.</p> <p><b>83%</b> of all fire deaths and <b>79%</b> of fire injuries resulted from home fires</p>
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**Smoke Alarms:  
A sound you can live with**

Fire Prevention Week • October 2010

[firepreventionweek.org](http://firepreventionweek.org) 

## Air Force Marathon sets attendance record

By Bill Hancock  
88th Air Base Wing PA

**Wright-Patterson AFB, Ohio** – A record field of 12,000 runners registered for 2010 Air Force Marathon events Sept. 17-18 at Wright-Patterson AFB, Ohio.

This year's race participation shattered the previous 2009 Marathon record of 9,969 runners, and by Sept. 14, had completely sold out at the pre-determined race cap of 12,000 runners.

Participants included those running in the full marathon, a wheeled division, a half-marathon, along with 10K and 5K runs.

The 14th annual running was opened by Lt. Gen. Janet C. Wolfenbarger, Air Force Materiel Command vice commander.

"This is truly a record breaking day," General Wolfenbarger said. "There are representatives from every state, along with six nations, and 44 folks who have attended every U.S. Air Force Marathon start since its inception in 1997."

The general reminded those gathered that the running of the 10K, half-

and full marathon races on Sept. 18, coincides with the U.S. Air Force's 63rd birthday. She thanked the thousands of runners, volunteers, and spectators "for making this a wonderful event."

The three-day event started with a sports and fitness Expo held at the Ervin J. Nutter Center on the campus of Wright State University. The expo hosted over 60 exhibitors featuring the latest in sports, fitness and nutrition.

The expo concluded Sept. 17 with a 5K race for 2,000 runners held on the university's campus and a gourmet pasta dinner at the National Museum of the U.S. Air Force.

Runners were treated to B-52 and F-16 flyovers and a course that visited historical sites on the base and throughout downtown Fairborn, Ohio. A large contingency of fans lined the course and cheered as participants raced by.

The Air Force Marathon is sanctioned by the USA Track & Field Association and is a qualifier for the Boston Marathon.

"What a privilege it is to run," said Airman 1st

Class Morgan Burns, an Air National Guardsman from DeSoto, Kan., as she caught her breath having just won the Women's 10K. "I just completed basic training last January and currently attend technical school at Keesler AFB, Miss. Academics come first, and I needed to attain special permission from my squadron commander to run today."

Among the noted runners in attendance, and one who didn't need to ask permission, was Air Force chief of staff, Gen. Norton A. Schwartz. General Schwartz participated in the 10K run with his wife, Suzie, and later presented finishers' medals and awards to overall winners. The general finished his 10K in 1:00:23.

Capt. Brian Dumm, an English instructor at the U.S. Air Force Academy, won the full marathon with a time of 2:27:40.

"It's tough to win here, the competition is always there," said Captain Dumm, who is originally from Washington D.C. and running his fifth-ever marathon. "To win this on the Air Force's birthday is pretty cool. I came out here to win...(just) glad it worked out."

Capt. Anne Marie Sibal, an Air Force judge advocate at the U.S. Air Force Academy in Colorado Springs, Colo., finished first among military females running the full marathon in a time of 3:06:47. The captain said she found inspiration to push herself during the race thinking of the sacrifices of deployed military members and their families.

### Three Arnold Airman complete Air Force marathon

AEDC Vice Commander Col. Eugene Mittuch, who was chosen to represent AFMC in the recent Air Force Marathon, finished 42nd with a time of 3:21:36.

1st Lt. Marc Honrath and Senior Airman Tara Kindermann competed in the half marathon.

Lieutenant Honrath finished 25th with a time of 1:29:39 and Airman Kindermann finished 399th with a time of 2:17:03.

"It felt great to be a part of this marathon and represent the Air Force," Captain Sibal said. "I will definitely be back next year."

This year's half-marathon event featured some friendly inter-service rivalry between the Air Force and Marine Corps teams. The six-person Air Force team of four male and two female Airmen took the honors.

Running in her first marathon, Staff Sgt. Alicia Salas, from March Air Force Base, Calif. took home the "Tail-end Charlie" trophy as the last full marathon finisher. Like many first-time marathoners, she ran in to a "wall."

"Brutal," was how she described the pain she felt in her knees during the final miles of the race, but she persevered and successfully finished. "I finished and I am very thankful," Sergeant Salas said.

For a complete listing of race results visit [www.usafmarathon.com](http://www.usafmarathon.com).

## Programs help Airmen pick up the pace for test



Staff Sgt. Eduardo DeSouza (center in gray T-shirt and long pants), leads a warm-up during the PT Run Class at the RAF Lakenheath running track. The class is designed to help individuals with the 1.5-mile run portion of the Air Force PT test. (Photo by Senior Airman David Dobrydney)

By Senior Airman David Dobrydney  
48th Fighter Wing Public Affairs

**Royal Air Force Lakenheath, England** – With the new Air Force physical training standards, many Airmen are looking for ways to gain a few extra points on their scores.

When it comes to the 1.5-mile run portion of the test, units are setting challenges and Airmen are starting programs designed to motivate testers and help them shave seconds to minutes off their time.

One such Airman is Staff Sgt. Eduardo DeSouza, an independent duty medical technician with the 48th Medical Operations Squadron.

Sergeant DeSouza started the PT Pacer program in July. Individuals give the time they wish to achieve on the run and a pacer is assigned to help them make that time.

"It's basically the principle of 'if you can do it, I can do it too,'" Sergeant DeSouza said.

In the PTP program, a pacer serves as both a motivator and companion to the runner.

"We're going to help you battle your fears," he said. "Most people, even before they start running at the track, are already scared. By giving you a pacer, we take away that fear of time and loneliness, especially when you're way back at the far side of the track. With a pacer, we're ahead of you and talking to you."

In addition to the Pacer program, Sergeant DeSouza also operates a PT Run class. Starting with an easy run Monday, each subsequent session builds upon the last, finishing with a mock PT test every Thursday.

Sergeant DeSouza said running mock tests has an important psychological effect.

"The more mock PT tests you do, the less chance you have to be anxious when the real thing comes around," he said.

Sergeant DeSouza has run similar programs at his previous assignments and has always had the same result.

"I have not had anybody fail the PT test with a pacer," he said.

# EVENING AT ARNOLD

AEDC Commander Col. Michael Panarisi hosted more than 30 middle school teachers at his Evening at Arnold event in September. Teachers from Bedford, Coffee, Franklin, Lincoln and Moore counties received a meal in the Propulsion Wind Tunnel's 16-foot supersonic tunnel. Col. Panarisi spoke to the teachers about how AEDC can be an aid in teaching math and science to their students. The group viewed the center briefing video in the main auditorium and toured AEDC's Mark 1 space chamber, the large J-6 solid propellant rocket test cell as well as the 16-foot supersonic tunnel. A number of AEDC personnel joined the group to answer the teachers' questions.



# honoring our veterans



Annual AEDC Veteran's Day Picnic  
September 24, 2010

## Smith from page 1

supported the first altitude jet engine test at AEDC. This inaugural altitude engine test was conducted in ETF Test Cell T-1 during April 1954.

These systems and their successors have been the standard for determination of air-breathing engine performance in the altitude test cells at AEDC for many years. The basic elements of his design are now in widespread use throughout the engine test community.

“Project responsibility for the engineering design and development of these high accuracy measuring systems was a challenge for a young guy like me, but it was very successful,” he said. “I am pleased to have been a part of the project team.”

His original design represented a major advance in the U.S. state-of-the-art for jet engine thrust measurements at altitude. These new AEDC systems provided thrust measurements with two to four times better accuracy and precision than other contemporary systems.

A short time later, he and Roy Matz, an ARO co-worker, conceived, designed and developed a new measurement system for engine airflow that continues to provide the standard baseline for airflow measurements in the ETF test cells. This Smith-Matz critical flow venturi system is included as a national standard in the fluid meters code of the American Society of Mechanical Engineers (ASME) and is also an international standard.

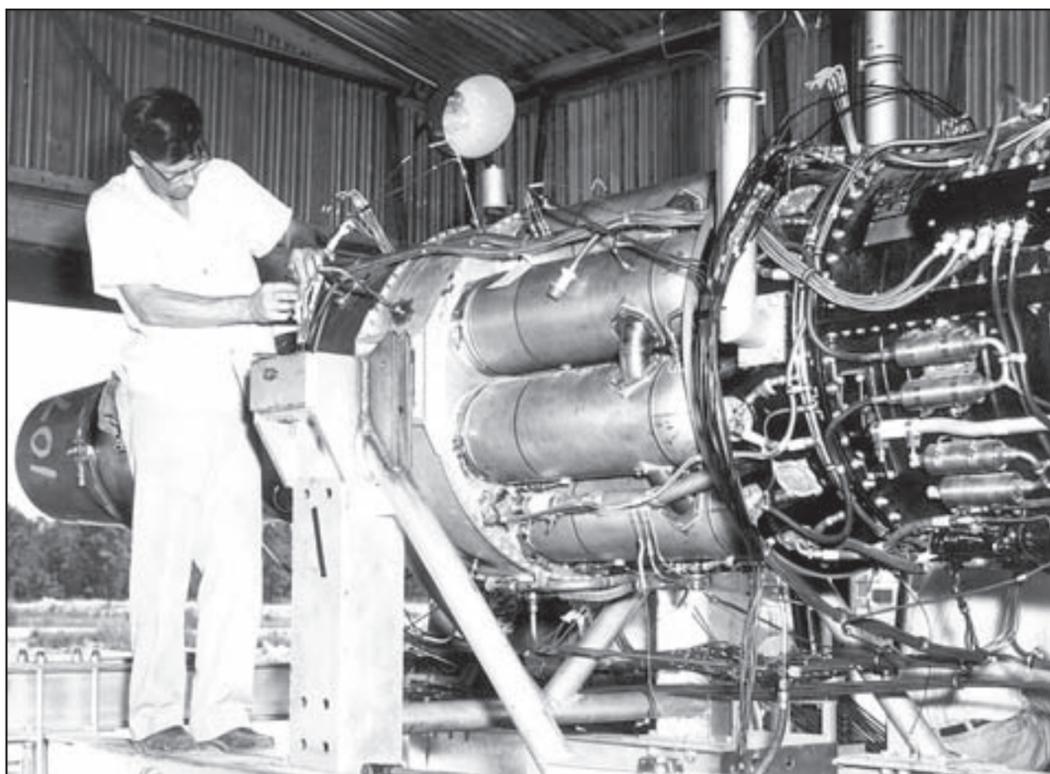
“Both of these standard ETF measuring systems were designed to meet the contemporary (late 50s –early 60s) need and

included growth provisions to meet needs of the future as best as we could project it,” he explained. “We anticipated that engines would be larger as time passed and they were. We were able to include enough provisions for growth that the useful lifetime of these test equipment items turned out to be not days or months, but years.”

His work in the application of these two measurement systems contributed significantly to advancing the state-of-the-art standards in resolving the thrust and drag of high performance jet aircraft beginning with the F-104, F-111, C-5 and B-1, and continuing to succeeding generations of such aircraft.

For 14 years, Smith managed ETF’s Research Branch and then the T-Cell Division in developing the technology base and designing special test equipment and facilities for high-speed air breathing engines and liquid and solid rockets. During this time, he managed the original experimental research efforts in supersonic combustion of hydrogen at AEDC. For this research, he and Dr. R. P. (Bob) Rhodes were jointly awarded the first General H. H. Arnold Award presented by the Tennessee Section of the American Rocket Society in 1961.

Again, using experimental and analytical works of many investigators, Smith developed and refined hardware design methods for the first exhaust gas ejector-diffusers, which were utilized in the jet engine test cells at AEDC. He was a major contributor to the extension of these methods to the design of ejector-diffusers for rocket motors when altitude ground testing of such mo-



**First engine test at the Arnold Engineering Development Center’s Engine Test Facility took place in 1953. The test required design and construction of a thrust stand for the J-47 turbojet engine, which Smith played a key role in establishing and that was also used in calibrating the center’s T-2 high altitude test cell.**

tors was initiated in the late 1950s.

In the 1960s, Smith envisioned a direct real-time relationship of the experimental engine-performance measurements from the engine test cells with computational results from the engine mathematical model. This vision was enabled by nearly simultaneous breakthroughs in high-speed cycle balance engine math models at the Air Force’s Propulsion Lab and high-speed data processing at AEDC. His advocacy for this relationship led to the first-generation AEDC system, which provided on-line comparison of experimental results with math model results.

During the late 60s and the early 70s, he led the small team of AEDC

engineering specialists that developed the design requirements for the Aeropropulsion Systems Test Facility (ASTF). The subsequent AEDC advocacy process for this large facility was led by the AEDC Chief Scientist, initially Dr. Bill Heiser and subsequently Dr. Jim Mitchell. Throughout the advocacy process Smith provided technical support to the Chief Scientists.

The advocacy process was ultimately successful and led to the construction of ASTF that was completed in 1984 at a cost exceeding \$600 million. Smith remembers the ASTF advocacy as “some of the most challenging and rewarding years of my career were supporting the center’s Chief Scientists through special documents, meetings, and conferences with national leaders in Congress, DoD, industry, and academia.”

#### Retirement

After retiring in 1991 as Vice President and Chief Scientist of Sverdrup Technology, Smith continued his service as an aerospace engineering consultant specifically in the development, operation and maintenance of jet engines.

“My current role as a consultant to the USAF’s Propulsion Product General Manager (PPGM) affords a unique opportunity to remain engaged and learn what’s being done better in the jet engine world,” he explained. “My role also provides the opportunity to be disappointed occasionally because the engine community—aka the Engine Mafia—sometimes repeats mistakes of the past largely because of significant and increasing losses in corporate memory at all levels—system project offices, Test and Evaluation centers, sustainment centers, government labs, and engine manufacturers. I am a very strong believer that to maintain U.S. aerospace superiority a few new failures must be induced as part of the search for the true location of the leading edge of any new capability. However, there is not enough time or money to allow for the luxury of repeating failures from the past.”

His best advice to the newer and younger employees of the center is to, “pay attention to what you know, humbly respect what you do not know, do good work, and look around to

learn what others are doing in the engine community so next time you can do your tasks better.”

He has always considered education a major part of his success and encourages young workers of today to make the most of an education and to take it all with them when you go to a job.

“My education has been a keystone. If I do not learn something new everyday, I figure I am really in trouble. I make sure every day of my life that I learn something, sometimes it is a good thing and sometime it is a bad thing, but in the end, each bit of learning counts.”

Smith also believes in giving back to the community and staying involved. He is a committed servant to his church, First United Methodist in Manchester, and to his community having served many roles in education, civic affairs, and governance for the Coffee County community.

“In addition, I believe it is necessary to commit a fair portion of my time and energy to organizations that serve my profession such as AIAA and NSPE. It appears to me that, in recent years, the Team AEDC management and engineering staff is participating less in professional development,” he said. “By less participation I mean attendance in meetings with fellow professionals, participation in seminars, and giving of presentations is now less than it was a decade or so ago.”

His advice to practicing engineers of today is to give professionalism its fair share commitment along with other key commitments including your God, family, and work.

#### His Legacy

Beverly and Bob’s family is blessed with three sons – David, a civil engineer living in Knoxville; Stephen, a mortgage banker living in Brentwood; and Gordon, a medical supply provider living in Brentwood – and three daughters-in-law and five grandchildren.

Smith hopes AEDC will still play a significant role in the United States’ defense program for years to come.

“I hope the U.S. will maintain its resolve to have a superior defense capability that includes aerospace testing before deployment. If Congress and the country can make that commitment; there will always be

a role for AEDC.”

What Smith wants to be remembered most for in this life is that he is a man of integrity and that he strived to perform each new task a little better than the last.

“I would like to be remembered as a loyal friend, as a competent mentor, as a respecter of persons and, most of all, as a believer in an omnipotent God.”

In regards to AEDC, Smith said, “The AEDC team working together, has, for over half a century, made major contributions to the security of our country and it’s rewarding to have been a part of that.”

#### Continued Education and Accolades

Smith also earned a Master of Science degree from University of Tennessee Space Institute (UTSI) in mechanical engineering. He is a graduate of UCLA’s Modern Engineering for Engineering Executives and of the Senior Management Program of the American Management Association. He served as an associate professor (adjunct) at UTSI from 1969 until 1996.

He was inducted as a Fellow of the American Institute of Aeronautics and Astronautics in 1988.

He was honored as an AEDC Fellow in June 1990 for his technical and managerial leadership in developing and implementing new approaches for ground testing and evaluation of air-breathing and rocket aerospace propulsion systems

In 1992, he received the Distinguished Alumnus Award from the Vanderbilt University School of Engineering.

He was awarded the 1995 Wright Brothers Lectureship in Aeronautics on the topic Integration of Airframes and Engines by the American Institute of Aeronautics and Astronautics.

In 1996 the Rheinisch-Westfälischen Technischen Hochschule and UTSI selected him as the Quick-Goethert Lecturer.

In February 2005, Smith was named the Engineer of the Year by the Nashville chapter of the Tennessee Society of Professional Engineers.

He was the first engineer from the aerospace field to receive this award, which is presented annually to a professional who has had a lifetime commitment to engineering in Middle Tennessee.

## Arnold Golf Course 454-7076

**Mulligan's Grill at Arnold Golf Course estimated grand reopening mid-October.** The grill is currently closed for completion of the major renovation project. 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 "Proudly Brewing Starbucks." These changes and improvements are provided for the loyal Arnold golfers as well as the non-golfer customers. The success of the grill contributes to the overall success of the golf course. Watch for more details on the ribbon cutting grand reopening and new specials.

## Arnold Lakeside Center 454-3350

The annual **Chili Cookoff** has been set for Oct. 1 behind Arnold Lakeside Center. Teams entering the event will need to provide all of their own supplies to start, cook and complete their chili entry and plan to make enough to provide samples as well as a batch for final judging. Teams need to be self sufficient and make all necessary arrangements for electrical (if required), tables, chairs, utensils, containers, ingredients, etc. Costumes and booth decorations are highly encouraged. Official rule sheets are available upon request. Cash prizes are sponsored by Ascend Federal Credit Union and will be given for best tasting (\$200), best tasting runner-up (\$150), best team spirit - decorations and costumes (\$100), most unusual ingredient (\$50) and people's choice voted on by others in attendance (\$50 plus half of ticket sales). People's choice votes are \$1 for three tasting bowls to sample chili and cast votes. There is no cost to enter chili. No Federal Endorsement of Sponsor Intended.

Arnold Lakeside Center **Football Frenzy** is underway. Watch Sunday NFL games every week and Saturday college games every week beginning Oct. 23. Thursday games will also be shown Nov. 11, Dec. 2, 9 and 16. Other special games will be Sugar Bowl, Jan. 4, Cotton Bowl, Jan. 7, and College Championship, Jan. 10. The grand finale of Football Frenzy will be Super Bowl on Feb. 6. The ALC will be open 11:30 a.m. to 8 p.m. on Sundays, 11:30 a.m. to 10 p.m. on Saturdays and 5 to 9 p.m. on Thursdays. Times will vary once bowl games and playoffs begin in Jan. There will be no games shown on Nov. 27, Dec. 11, 18, 25 or 26. While attending a Football Frenzy game event, all Members First Plus members are eligible to enter to win a trip to two regular games and Super Bowl. Each winner will receive two airline tickets, hotel accommodations, rental car and two game tickets. A bonus drawing will be held

for ten lucky winners to receive \$500 each. Only one entry per member per visit. Members and nonmembers are eligible to compete in local contests and giveaways. Food specials will be offered with member and nonmember prices or order from the Hap's Pizza or Express menus. Regular dinner menu is available on Saturday nights in the Four Seasons dining room from 5-9 p.m. October specials and contests are listed. Watch for more details or call 454-3350.

October contests and food specials are as follows:

Oct. 3: Chicken Quesadillas \$4.99 member, \$5.99 nonmember

Football Toss contest - during halftime participants make as many tosses in 30 seconds through a target; most tosses wins

Oct. 10: B B Q Meatballs & Chips 'n Dip (all you can eat) \$7.50 member, \$8.50 nonmember

Titans vs. Cowboys game - all present entered into drawing; if Titans score more than 35 points against Cowboys winner receives \$50 Services Bucks; if points not reached winner receives Football Frenzy prize

Oct. 17: The "Big Dawg" - Supersized Chili Dog and Chips \$4.99 member, \$5.99 nonmember

Best Cheer Contest - Teams of three perform their best cheer during halftime

Oct. 23: A L C Burger and Fries \$5.50 member, \$6.50 nonmember

Football Trivia Contest - most correct answers wins (no cell phones allowed during contest)

Oct. 24: Philly Cheese and Fries \$5.50 member, \$6.50 nonmember

Pin the Football on 50 Yard Line - while blindfolded, try to get closest to the 50 yard line to win prize

Oct. 30: Sliders and Fries \$4.99 member, \$5.99 nonmember

Football Toss contest - make as many tosses in 30 seconds through a target; most tosses wins

Oct. 31: "Witches Brew" - Chili and Crackers \$3.99 member, \$4.99 nonmember

Best Original Costume - no store bought costumes

**Your Club - Your Card Membership Campaign** starts Oct. 15. All personnel who join any Air Force club between Oct. 15 and Dec. 31 will automatically receive three months free dues, a free cash back rewards program and two free lunches at their club. During the period everyone interested in AF Club membership should look for the membership promotional materials in their local club and other Services activities. Pick up an application, fill it out and experience the benefits of membership. The membership card provides numerous benefits. The Military Free Cash rewards program is an outstanding benefit to members. When you use your club membership card in any on-base Services activity, you earn 2 percent cash back on every eligible purchase. 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

## Master Distiller signs bottles at ALC



Jeff Arnett, Jack Daniel's Master Distiller, signs a commemorative bottle at Arnold Lakeside Center for Terry Tucker. Guests were offered special pricing and custom messages during the two-hour visit. Generic signed commemorative bottles are still available from the ALC for \$46.95 members and \$49.95 nonmembers. (Photo provided)

flexibility - and it is all free, as a benefit of club membership. Air Force Clubs offers members numerous free and inexpensive activities including discounts on every meal to include special functions, an annual \$25,000 scholarship program, Football Frenzy, Air Force Hoops and other member's only programs. Your Club is a great place for entertainment and meeting new friends in a fun and safe environment. Join now - enjoy free lunch and the first three months are also free on us.

**Karaoke is now a Second Friday event each month.** Karaoke will be Oct. 8 from 6-10 p.m. All ages are welcome from 6-8 p.m. but 8-10 p.m. is reserved for adults only. Special for members only 7-9 p.m. - .25 cent wings and 1/2 priced pizzas. Dining room special will be ahi tuna steak with strawberry sauce with two sides and salad bar for \$13.95 members and \$14.95 nonmembers served 4-9 p.m. Call ahead for dinner reservations at 454-3350.

**Casino Night** is back with Oktoberfest theme Oct. 16 from 6-10 p.m. The event is for ages 18 and up and the gaming portion is free. Participants will be given play money to try their hand at various tables to include blackjack, roulette, craps and wheel of fortune. After gaming is complete, participants will use their winnings to bid on prize items during an auction. All are encouraged to come in appropriate costume and a contest will be held for Most Oktoberfest Spirit. A German buffet will be served for \$12.95 for members and \$14.95 for nonmembers. Call 454-3350 for dinner reservations.

**Trivia Contest** is back Oct. 29 beginning at 6 p.m. 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 10 points. The team with the most points at the end wins. Ties will be broken by a trivia play-off. 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. Ties will be

broken by a trivia playoff.

**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 other specials are available each week.

**Movie nights** are every Thursday with movie start time of 6 p.m. and dinner available from the Express or Pizza menus from 5-8 p.m. The schedule for October is: **Oct. 7** - "Grown Ups," rated PG-13 starring Adam Sandler, Kevin James, Chris Rock, David Spade and Rob Schneider. Five friends and former teammates reunite years later to honor the passing of their childhood basketball coach. With wives and kids in tow they spend the weekend together at the lake house where they celebrated their championship years earlier. Picking up where they left off, they discover why growing older doesn't mean growing up. **Oct. 14** - "Ramona and Beezus," rated G starring Selena Gomez and Joey King. Ramona's vivid imagination, boundless energy and accident-prone antics keep everyone she meets on their toes but it comes in handy when she puts her mind to helping save her family's home. **Oct. 21** - "Jonah Hex," rated PG-13 starring Josh Brolin and Megan Fox. The U.S. military makes a scarred bounty hunter with warrants on his own head an offer he cannot refuse: in exchange for his freedom,

he must stop a terrorist who is ready to unleash Hell on Earth. **Oct. 28** - "Salt," rated PG-13 starring Angelina Jolie and Live Schreiber. A CIA agent goes on the run after a defector accuses her of being a Russian spy.

**Friday night dining room specials available from 4-9 p.m. Oct. 1:** Lynchburg rib-eye, \$13.95 members, \$14.95 nonmembers. First Friday Jam is back 6-10 p.m. **Oct. 8:** Ahi tuna steak with strawberry sauce, \$13.95 for members, \$14.95 for nonmembers. Second Friday Karaoke 6-10 p.m. Member's Special: .25 cent wings and half-priced pizzas 7-9 p.m. **Oct. 15:** Stuffed pork tenderloin, \$12.95 members, \$13.95 nonmembers. **Oct. 22:** Prime rib for two \$31.95 members, \$32.95 nonmembers. **Oct. 29:** Never ending pasta bowl, three types of sauces and three types of pasta, \$8.95 members, \$9.95 nonmembers. Halloween Last Friday Trivia Night begins at 6 p.m. 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: Oct. 2:** Homemade lasagna, \$9.95 members, \$10.95 nonmembers. **Oct. 9:** Grilled red snapper or tilapia, \$11.95 members, \$12.95 nonmembers. **Oct. 16:** Oktoberfest Casino Night: German theme buffet \$12.95 members, \$14.95 nonmembers. Buffet includes schnitzels, sauerkraut, brats, boiled potatoes and more. **Oct. 23:** Surf and turf - 6 oz. beef tenderloin and 6 oz. skewered shrimp, twice baked potato and broccoli spears with salad bar, \$15.95 members, \$16.95 nonmem-

bers. **Oct. 30:** Prime rib for two, \$31.95 members, \$32.95 nonmembers. 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

**Youth Movie Night** will be Oct. 1 from 5-7 p.m. Ages 9 and up are invited to the Open Rec Center to watch a movie. There will be free popcorn, juice and water.

**Piano Lessons** will be held every month for all ages with half hour sessions each week for four weeks. A new session will begin every four weeks as long as there are at least two students registered for the class. A maximum of four students per month will fill the 4-5 p.m. time-frame of half hour classes. Cost is \$60 and includes instructional book. Deadline to sign up is the last Monday of the month for the next month's classes. If you've ever wanted to get your hands on a piano but didn't know where to start or worried because you couldn't read music that's no problem. This class will have you playing music in no time. Call 454-3277 now to sign up.

**Home Alone Training** will be held Oct. 11 from 9 a.m. to 12 p.m. This training is for ages 9-11 and is mandatory for youth living in Arnold AFB housing that may be left without a sitter

See BRIEFS, page 12

## 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 5-8 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 p.m.

**Family Member/Youth Programs** - Tuesday through Friday 10 a.m. - 5 p.m., Saturday 12-5 p.m., First Friday Movie Night 5-7 p.m.

**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.

**Fitness Center** - Monday-Friday 5 a.m.-9 p.m.; Saturday 8 a.m.-4 p.m.; Sunday 12-5 p.m. **Open 5 a.m. - 6 p.m. Oct. 11.**

**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

## Briefs from page 11

for two hours or less. Active duty Air Force dependents assigned to Arnold may attend for free. All others are welcome to attend for \$30. This course will teach what to do and what not to do when home without adult supervision. Included are tips on how to supervise siblings, hide the house key, call for help during an emergency, answer the door and handle non-emergency phone calls. Deadline to sign up for this class is Oct. 4. A late/cancellation fee of \$5 will be applied where applicable after that date. Must have a minimum of six to take the class and no more than 15 are allowed. It is recommended that all attending bring a snack and drink. Call 454-3277 to sign up.

**Red Cross Babysitter Training Class** is scheduled for 9 a.m. – 4 p.m. Oct. 11. Ages 11-16 will gain the knowledge, skills and confidence to care for infants and school-age children. The course is fun and fast-paced with hands-on activities, exciting video,

role plays and lively discussions. It will show you how to respond to emergencies and illnesses with first aid, rescue breathing and other appropriate care, made decisions under pressure, community with parent to learn household rules, recognize safety and hygiene issues, manage young children and feeding, diaper changing and care for infants. Cost for the class is \$50 and includes a Babysitter's Training Handbook, emergency reference guide and training CD. Participants should bring a sack lunch, snack and drinks. Deadline to sign up for the class is Oct. 4. A \$5 late/cancellation fee will be applied after that date. Must have six students enrolled in order for the class to take place. Maximum class size is 20 students.

**Teen Outdoor Movie Night** Oct. 15 will be showing "Freddy vs. Jason" (rated R) for an early Halloween celebration. Dare you to come. Bring a blanket or chair and a friend and meet on the back lawn of the

Youth Center at 5 p.m. and watch the movie on the inflatable screen. Hot chocolate, sodas, pizza slices and hot dogs will be available for \$1 each. Popcorn and smores will be provided for free. There will be a prize for the teen who brings the most friends.

**4-H Oct. 28** will introduce all new members to the public speaking contest. All participants that receive a blue or red ribbon will get to move on to the county contest. The regional contest for the seniors will be held at MTSU and the sub regional contest for juniors is still to be determined. Seniors also have to give an impromptu speech. There will also be a short program from the 4-H microwave usage program. The 4-H program offers many different opportunities such as the Demonstration Contest, Clover Bowl, Judging Teams, showing livestock, camps and many more opportunities. When you join 4-H you are joining the world's largest youth organization. 4-H is also not just an American organization as there are 4-H clubs in more than 80 countries around the world. Some of the big contests that 4-H really encourages are the speaking events and the poster contest. These events allow 4-Hers to express their creative sides and develop skills that will come

in handy later on in life. 4-H also offers many different contests, camps, and honor's programs that the members can become involved with. 4-H is always striving to teach young adults how to become better citizens and leaders through the many programs available. Call 454-3277 for more information and to sign-up. Arnold Youth Programs 4-H Club is open to all AEDC affiliated children from 4th grade to 12th grade.

Arnold Youth Programs is proud to have been selected to participate as a charity in the **2010 Combined Federal Campaign**, an annual workplace charitable giving campaign for employees of the U.S. Government. The mission of the CFC is to support and promote philanthropy through a voluntary program that is employee-focused, cost-efficient and effective in providing federal employees the opportunity to improve the quality of life for all. The solicitation period for the campaign runs from September through December. Arnold's CFC code is 71260 that will be used for our Youth Program. We will also be hosting fundraisers such as bake sales during the solicitation period. CFC is significant because it is an opportunity for all of us to really make a difference for our Arnold Community.

The contributions made to Youth Programs will directly affect active duty, retirees, DoD and contract civilians and their families who reside here in our local community. CFC funds will support recreational activities and holiday programs for both our families and youth.

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### Fitness Center 454-6440

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Effective Oct. 1 the Fitness Center will assume the roles and responsibilities of the **Health and Wellness Center**. The workout room in the A&E Building, Room C203 will now be referred to as the Fitness Center Annex. Programs and services designed to improve overall health as well as attaining a better sense of well-being will be offered. Among the services planned will be professional nutrition counseling, stress management, tobacco cessation, cancer, cardiovascular disease, diabetes and other preventative programs. These services and programs will be limited to installation active duty, DoD and NAF civilian work force. Appointments must be made through the main Fitness Center by calling 454-6441.

The Fitness Center will be open from **5 a.m. to 6 p.m. Oct. 11** in observance of Columbus Day. Group classes will continue as scheduled.

**5 Card Draw Walk/Run** will be held Oct. 13 any time during normal business hours, 5 a.m. – 9 p.m. Complete the Fitness Center trail and pick up five sealed cards along the way. The top three hands of the day receive prizes.

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### Outdoor Rec (ODR) 454-6084

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**Paintball** is set for Oct. 9. Ages 10 and older are invited to play. Meet at Outdoor Rec. at 9:30 a.m. Cost is \$20 and includes lunch. Remember to wear long-sleeved shirts and long pants.

**Trunk or Treat and Halloween Car Decorating Contest** coming Oct. 28. Bring your car decorated in its Halloween best and pop the trunk and fill with treats (store bought, individually wrapped candy only, please) and prepare for the trick or treaters. While the little goblins make their way around collecting candy, judges will be critiquing the cars to determine the best decorated. The event gets underway at 5 p.m. with judging at the conclusion at 8 p.m. The top three winners in the car decoration competition will receive prizes. Participants may attend and participate in both portions of this event but it is not required. The car competition is open to all ages but the trick or treating is limited to age 15 and younger. Bring your children and their bags or buckets and get an early start on Halloween candy collecting.

Cruise the Grand Canyon of the Tennessee River and see one of nature's most magnificent wonders dressed in its entire fall splendor. Outdoor Rec is going to Chattanooga to take a ride on the **Southern Belle Riverboat** Oct. 30. Meet at Outdoor Rec at 10:30 a.m. and return approximately 6:30 p.m. Cost is \$45 per person and deadline to sign up is Oct. 19 (nonrefundable if canceled after Oct. 20). There must be a minimum of 12 to make the trip and max number of participants is 28. The cruise will take you on the famous Tennessee River Gorge to see nature's brilliant canvas of vivid fall colors. There will be live entertainment for a foot stompin' good time, free bingo with gift shop prizes and a delicious buffet for lunch to include roast beef and rotisserie chicken. Call 454-6084 for more information and to sign up.

#### Upcoming Events:

Bill Cosby, Tennessee Performing Arts Center, Jan. 15, 2011, 1 p.m. – 8:30 a.m., \$82, sign up by Nov. 12.

Shrek the Musical, Tennessee Performing Arts Center, Jan. 29, 2011, 5 pm – 12:30 am, \$75, sign up by Nov. 26.

# Milestones

## 30 YEARS

Mike Barlow, ATA  
Kenneth Crosslin, ATA

## 25 YEARS

Lera Davis, ATA  
William Dunn, ATA  
Mary Flippo, Premier  
Scott Glass, ATA  
Christa Herron, ATA  
Martha Otwell, Premier  
James Thompson, ATA  
George Winton, ATA

## 20 YEARS

Darrell Booher, ATA  
Steven Lepley, ATA  
Jennifer Johnson, ATA

## 15 YEARS

Dotty Davis, ATA  
Stuart Elam, ATA

## 10 YEARS

Thomas Coker, ATA  
Larry Patton, ATA  
Kathryn Stephens, ATA

## 5 YEARS

Troy Caldwell, ATA  
Jason Colbert, ATA  
Jamie Conlee, ATA  
Joseph Cowan, ATA  
Paul Gallagher, ATA  
Melissa Hester, NAF  
Michael Hollowell, ATA  
Troy Jernigan, ATA  
David Kline, ATA  
Steven Lampley, ATA  
Ralph Lance, ATA  
Christopher Rogers, ATA  
Ollie Vincent Jr., ATA  
Kenneth Wells, ATA

Cliffa Wilhoite, ATA

## INBOUND MILITARY

Mark Andrews, AF  
William Baker, AF  
Emily Dutton, AF  
Nicholas Edwards, AF  
Frank Hayes, AF  
Tyler Henley, AF  
Nicholas Henson, AF  
Gwendolyn Hinson, AF  
James Lawson, AF  
Robert Mosley, AF  
Joshua Osborne, AF  
Kevin Sipe, AF  
Amanda Stroop, AF  
Ayla Wells, AF

## OUTBOUND MILITARY

Col James Jolliffe  
Master Sgt. Harold Jones

## NEW HIRES

Lasheena Brunson, NAF  
Jennifer Buckman, ATA  
Neil Felver, TSDC  
Jesse Humberd, TSDIA  
Raymond Isom, Premier  
Richard Kirkpatrick, TSTS  
Frederick Rone, TTSI  
William Schuman, TST-OGV  
Robert Tischart III, TST-OGV  
Manmohan Tuli, TST-OGV

## GRADUATE / DEGREES

Andrew Alexander, ATA, M.S. Mechanical Engineering  
Derick Daniel, ATA, M.S. Mechanical Engineering

# Vandenberg officials launch Minotaur IV

**Vandenberg AFB, Calif. (AFNS)** – Officials here launched a Minotaur IV rocket Sept. 25.

The Minotaur IV launched the Space-Based Space Surveillance satellite, a first-of-its-kind satellite that can detect and track orbiting space objects from space.

Col. Richard Boltz, the 30th Space Wing commander, was the launch decision authority.

“SBSS will greatly enhance our existing space situational awareness capability, a capability vital to protecting our space-based assets,” Colonel Boltz said. “This evening’s launch

was our third launch in eight days, and I am extremely proud of team Vandenberg for all the hard work and dedication they’ve put into these important missions.”

This launch was a combined effort between the 30th Space Wing, Orbital Sciences Corporation, The Boeing Company, Ball

Aerospace and the Space and Missile Systems Center.

The Minotaur IV launch vehicle provides the ability to deliver payloads up to 3,000 kilograms on long-range, suborbital trajectories.

It utilizes residual solid rocket motors combined with commercial launch vehicle technologies.

## Uniform phaseout dates draw near

By Brad Jessmer  
Air Force Uniform Office

**Wright-Patterson AFB, Ohio (AFNS)** – With many phaseout and mandatory wear dates approaching, the look of Air Force uniforms will change slightly over the next year. Here are a few dates to remember for uniform and policy changes.

As of the following dates, wear of the listed uniform items will be phased out:

**Oct. 1, 2010**

- 100 percent wool pullover sweater, replaced with the looser fitting, smooth fabric pullover sweater

- 2EXXX, 3AXXX and 3CXXX legacy badges

- Green fleece used as outer garment without name, service designator and rank

- Black fleece

**Dec. 31, 2010**

- Gray and dark blue scarves, gloves, mittens and earmuffs

**Oct. 1, 2011**

- 33S legacy badges

**Nov. 1, 2011**

- Battle Dress Uniform

- Desert Camouflage Uniform

- Tan boots (excluding Airmen deployed to the area of responsibility)

Wear of the Airman Battle Uniform and ABU items will be mandatory as of Nov. 1, 2011.

As of Oct. 1, 2010, the optional green fleece without nametapes and rank may

only be worn as a liner to the All-Purpose Environmental Clothing System. If worn as an outer garment, the green fleece must have the Airman's name, Air Force tape and rank attached.

For more information on uniform items, visit the Air Force uniform website at <http://www.afpc.randolph.af.mil/dress/index.asp>.