

Tunnel 9 ushers in new paradigm for evaluation and test



Tunnel 9 staff, students and researchers from several organizations gather to collaborate on ground-breaking science and technology in the recently returned-to-service testing operational control room. (Photo by John Lafferty)

By Janaé Daniels
High Mach Editor

For the past year, engineers at the Hypervelocity Wind Tunnel 9 located at AEDC's White Oak location renovated their main tunnel controller.

They installed a state-of-the-art digital control room and completed a successful return to service, verifying all aspects of the facility operation.

To validate Tunnel 9 as fully operational required a detailed and demanding process of deliberately increasing the throttle of the facility until full pressure and temperature were achieved according to Dan Marren, Tunnel 9 site director.

Marren explained that the final stage for validation would normally involve a standard check model where test cell functionality, data throughput and veracity of information can be verified against benchmark data.

"While running a standard check model is anything but standard in Tunnel 9—high temperatures and pressures with dynamic angle-of-attack sweep approaching 80 degrees a second—this time it was even more atypical given our enhanced data goals," Marren said.

Several high-speed systems under development today will require a more complete understanding of the challenges that are between technology development and fielding. AEDC management took this opportunity to determine

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ATA faces reductions in work force

By Kathy Gattis
ATA Public Affairs Manager

ATA announced last week the company will reduce its work force in April.

It's not known how many employees will lose their jobs, but the company is facing a \$3 million funding cut.

In a note to all employees, ATA General Manager, Dr. David Elrod said,

"We're hoping to reduce the impact on employees and their families as much as possible, but we already tightened-our-belt in many areas during the budget cuts six months ago. We're hoping to absorb some of the reductions by reassigning employees when we can and we'll also offer a voluntary reduction in force (VRIF)." VRIF allows employees

to volunteer for a lay off with company approval. These employees may be eligible for the extended unemployment benefits and an insurance supplement because of provisions in the stimulus legislation.

ATA employs 2,141 people. The company laid off 132 people in September of last year.

Bill Gray hangs up his hat for lighter days on the farm in Lynchburg

By Janaé Daniels
High Mach Editor

When asked what they plan on doing after retirement most people say travel, spend time with family or grandkids, but for Bill Gray it's something much more low key—farming.

"We live on a farm in Lynchburg so I will probably be doing more farm jobs," he said. "One thing I want to do is finish my chores before dark. And I want to make sure I do a better job than I am doing now as a part-time farmer."

Peggy, his wife and who is the AEDC deputy director of financial management and comptroller, is excited

for Bill to get to retire while he still has his health and so many interests.

"We have the farm, he loves to shoot and hunt and he still swims, rides his bicycle and runs when he is able," she said. "I still have a couple of years to work. I think retiring at the same time would be difficult. I believe it is great that he will have a couple of years to get into his routine before I retire."

Peggy jokingly added, "I love him dearly, but spending 24-hours-a-day together every day might be trying. I think we both need our space."

Like most spouses who retire before the other, Peg-

gy has a few honey-do things for Bill to do while she's at work.

"I continually tease him about having dinner ready when I get home each day," she said. "Wouldn't that be wonderful? And, I wouldn't mind if he decided to do the grocery shopping either."

All joking aside, what Peggy will miss most about Bill not being here is that he is her rock and always there for support when she needed it.

"I am the more emotional one - he is definitely the more serious one," she said.

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Gen. Donald Hoffman (right), AFMC commander, examines two aircraft brakes while Senior Airman Stephen Baumgart, 379th Expeditionary Maintenance Squadron, explains his mission at a location in Southwest Asia last month. General Hoffman, along with other AFMC senior leaders, visited as part of a trip through the U.S. Central Command's Area of Responsibility to acquire feedback directly from the warfighter about the test and sustainment support the command is contributing to the fight. (Photo by Senior Airman Kasey Zickmund)

Trip to war region heightens AFMC commander's resolve

By Rob Ely
AFMC Public Affairs

The commander of Air Force Materiel Command returned recently from a trip to Iraq and other sites in the region with an amped-up sense of responsibility to deployed Airmen who depend on his command for the supplies, parts and maintenance to

get their jobs done.

General Donald Hoffman had a simple message for the AFMC work force, which he shared first with his senior staff. If there's something in AFMC that someone is waiting for, he said, it better not be sitting in somebody's inbox waiting for action.

He reiterated that message at the HQ AFMC

annual awards breakfast attended by approximately 350 people. During an interview, he elaborated on what he observed during the trip that led him to stress heightened responsiveness.

"AFMC support is well received and appreciated," he said, "but the people

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King Bird, former Calspan general manager dies in Buffalo

King D. Bird, former company general manager at AEDC and a prominent executive for 41 years at Calspan Corporation, died in Buffalo, N.Y. March 9 at the age of 85.

During his long tenure at Calspan he was involved in engineering and management activities associated with aerospace and vehicle research and development. He was known for his ability to recruit, organize and manage diverse analytical and experimental research projects.

A native of Cattaraugus, N.Y., Bird graduated in 1946 from Rensselaer Polytechnic Institute with a degree in Aeronautical Engineering. His professional career began at Wright-



Bird

Patterson AFB in Ohio, followed by four years at Johns Hopkins Applied Physics Laboratory working on research and development of guided missiles.

In 1951 Bird joined Cornell Aeronautical Laboratory the forerunner of Buffalo-based Calspan Corp. Over the years, he headed the Transonic and Hypersonic

Departments (wind tunnels), the Vehicle Research Department, the Tire Research Facility, and the Flight Research and Facilities Department. He directed applied research in experimental aerodynamics in wind tunnels as well as vehicle research in stability and control, handling characteristics and pavement skid. He also led a team in design and operation of Calspan's indoor tire testing facility.

One particularly interesting engineering project that Bird managed in 1972 was underwritten by a commercial venture that took raft tours down the Niagara River rapids below the falls.

The project involved equipping the rafts with

measurement-recording instrumentation, making repeated runs through the turbulent rapids, gathering data and designing a passenger-safe raft.

In a 1980 acquisition effort led by Bird, Calspan successfully bid and was awarded a highly competitive multi-year contract to operate the Air Force's aerospace flight dynamics facilities at AEDC, then staffed by more than 1,000 employees. Bird served as General Manager until August 1987, when he was named Calspan Senior Vice President and General Manager of the company's newly formed Service Contracts Division, based in Tullahoma. Under his leadership, the new division expanded

the company's contract operations through successful procurements at five NASA research centers.

The local chapter of the National Management Association in 1987 recognized Bird by awarding him its "Silver Knight" for management excellence and community service.

He held professional affiliations in the American Institute of Aeronautics, the NASA Research Advisory Committee on Space Vehicle Aerodynamics, the Supersonic Tunnel Association, National Academy of Science, Professional Engineers of New York and Tennessee, Society of Automotive Engineers and Society of Sigma Xi.

He was also an active

member of Tullahoma's Rotary Club and Unitarian Universalist Church and served on the board of directors of Harton Hospital and the Tullahoma airport.

Bird retired in 1992 and left Tullahoma in 1997 to move back to Buffalo. Although he enjoyed golf, skiing and travel, his main passion was flying. He held a private pilot's license for 30 years, made countless regional trips and flew across the country several times.

Bird is survived by his wife of 63 years, Alice (nee Fitzgerald) and by three sons: David (Peggy), Bruce and Max; and by seven grandchildren (Allison, Jason, Marta, Mira, Kristina, Daniel and Ivan).

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

2009 Annual Awards Banquet ... the hits just kept on coming

By Col. Michael Panarisi
AEDC Commander

Now THAT was a banquet!!

Huge turnout, home runs in every inning, and a finale that we will all remember.

I couldn't have been prouder of both the team that put the whole thing together, to the nominees and winners I met on the stage. This was a night to celebrate AEDC's finest, and the teams serving as the wind beneath their wings.

These events are monstrous undertakings, and worth every minute. The



Panarisi

crew that pulled it all together learned valuable lessons in teamwork, cross-functional coordination, and how to adapt, improvise and overcome in execution.

The supervisors and

leaders learned the value of mentorship, rewarding superior performance and how a little encouragement can go a very long way.

The nominees and winners received some first-hand feedback, and assurance that their efforts did not go unnoticed.

And through every moment, AEDC's greatest asset shined through...our commitment to "the team."

Although the event is often seen as the conclusion of an "individual" competition, if you dig a little deeper, you'll find it's all about the team. Look at the lineup. Our "MC" team,

not just a single MC. The invocation offered by our very own Mr. John Sutton. The phenomenal rendition of our National Anthem, presented by the daughter of an Arnold Community Council member. And the fact that we include our military, DoD civilian, NAF civilian, and ATA winners in a single, combined event is no accident.

It's just one more facet of our relentless efforts to honor the team approach that has made AEDC the jewel that it is.

And how about Mr. Dan Clark? As I mentioned in my intro, THIS guy can

inspire almost anybody. Everything from the story of his personal tragedy to his observation that what we have here is a model of "higher expectations" spoke of teamwork.

I had the pleasure of taking him around our base that afternoon, and at every turn, "the team" caught his attention.

I have seen this on countless tours, but Mr. Clark is a bit more passionate than most, so I got an extra dose this time.

He just could not believe the depth and breadth of the work we do here, and was proud to be a part of it on this night.

And let's not forget the central theme of his message...our greatest achievements start with an inspiration, and are sustained by the choices we make along the way to raise our expectations. The vignette describing the "locker room leap" could not have come at a better time.

I know we are facing some huge obstacles in the near term. Many are cause for concern, but most are just as we described them a few weeks back ... "A Call to Arms."

This event proved we have the team, and the stars, to smash through, leap over, and get around those obstacles. I saw the fire in the heart of every recipient as I shook their hands, and I saw the pride in the teammates and supervisors who got them to the stage.

Those are energy sources no "funding cut" can take away. We're "re-charged" now. Full steam ahead!

Airmen celebrate women's history month

By Staff Sgt. James M. Hodgman
55th Wing Public Affairs

Offutt AFB, Neb. (AFNS) – They are our mothers and daughters. In many cases, they are also the ones who hold families together. They are the women of our lives and have accomplished much throughout history in addition to caring for loved ones.

President Barack Obama recently issued a proclamation declaring March as National Women's History Month, an observance that offers all Americans an opportunity to honor the accomplishments of women.

The theme for the 2010 observance is, "Writing Women Back Into History." According to the National Women's History Project Web site, the history of women is often written with invisible ink. Even when recognized in their own times, women are frequently left out of the history books.

According to the proclamation for the month, countless women have steered the course of America's history, and their stories are ones of steadfast determination. From reaching for the ballot box to breaking barriers on athletic fields and battlefields, American women have stood resolute in the face of adversity and overcome obstacles to realize their full measure of success.

The proclamation also states, "Women's History Month is an opportunity for us to recognize the contributions women have made to our nation, and to honor those who blazed trails for women's empowerment and equality."

Examples of these accomplishments abound throughout history.

Elizabeth Cady Stanton championed women's rights, Maj. Nicole Malachowski was the first female pilot to fly with the Air Force Thunderbirds, and Dr. Mary E. Walker,

a contract surgeon during the Civil War, earned the Medal of Honor.

All of these women represent a proud heritage for women in almost every corner of the nation. They represent that women, have and continue to make significant contributions to society.

By looking at what women, such as Dr. Mae Jemison, the first female black astronaut and Sandra Day O'Connor, the first female Supreme Court Justice have achieved, the women and girls of today know they too can achieve greatness, said Capt. Toni Carter, the deputy chief of standards and evaluation for the Air Force Weather Agency here.

Another important element of Women's History Month, is recognizing the accomplishments and sacrifices of women who have influenced people throughout their lives, said Senior Airman Sonata Kristina M. Corpuz, a target analyst with the 20th Intelligence Squadron.

For Airman Corpuz, her grandmother had a significant impact on her life.

"I grew up in the Philippines and my grandmother disciplined me well," Airman Corpuz said. "She was there to teach me the basics and when I learned, she let me do things on my own and think for myself so that when I made mistakes, I would learn from them. When I felt like giving up, she told me to pray and that things happen for a reason, and that God wouldn't put me in a situation I couldn't surpass."

"Women have made great strides in America, but continue to be (largely) under-represented, Captain Carter said. "The theme (serves) to remind folks of the accomplishments that women have made in (America.)"

For more information about Women's History Month, visit the National Women's History Project Web site at <http://www.nwhp.org/>.

From another voice: running is for fitness, not a test

By Bill Goins
8th Fighter Wing

Kunsan AB, South Korea – Let me start by saying this isn't a commentary on getting better at a test.

Your Air Force fitness test is simply a check-up. If you are training for your test, you are doomed to fail eventually. The Air Force Fitness Program isn't a test. The program is what you do day in and day out to improve and maintain a high level of cardiovascular and muscular fitness.

That being said, I've got one word for you: consistency. This is really the bottom line on all components of fitness. The key isn't to exercise for a month or two so you can be average on your test day. The key is to be consistent and make exercise a part of your lifestyle, your daily schedule, so you can excel at any time.

Now, because I know you are doing more running because of the test, here are some general tips to help you stay consistent and improve your running fitness.

Don't do too much too soon. The biggest mistake you can make is not being consistent with your exercise and then deciding you are going to run five days a week. Running is a very high impact exercise. If you haven't been running consistently for the past eight to 12 weeks, then start off running twice a week and two other days with non-impact exercises like cycling, swimming or elliptical training. After you have been consistently running for at least eight weeks you should increase to three times per week. I wouldn't advise anyone to exceed running three times per week. That's right, you shouldn't run five days per week. Your body really needs to have adequate recovery time from the impact of running.

Due to the impact of running on the joints, proper shoes and running surfaces are crucial to avoid injury. All running shoes aren't the same. I cannot stress the importance of having the proper shoes for your feet and replacing shoes often. Contact your squadron physical training leader for more guidance on finding the right shoes.

Once you have the right shoes, running on the right surface can have a big influence on the success of your program. Because of its cushion, the track is a great place to run, but for some folks it's quite boring. Running on the streets can be more exciting, but the surface is

harder on your joints. I would vary your training surfaces each time you run. Spice it up a little, sometimes at the track, sometimes around base, sometimes on the running paths and sometimes on a treadmill. This will help your body avoid excessive impact and it'll help break the monotony of your program.

Don't stop at 1.5 miles. If you never run more than 1.5 miles, you'll never get faster. You must improve your lactate threshold. That is a fancy way to say that you must push your body past what its used to. You must overload it in order for it to improve. You need to work up to running at least 30 minutes or three miles without stopping. Once you get there, then you can work on speed.

Intervals Anyone? I don't mind saying that running sprints can really stink. They tend to kick your butt. However, they're the best way to improve your speed. Once you can run for 30 minutes or three miles without stopping, work intervals into your running program once a week. A couple of sample interval workouts are listed below. Remember, always start with a about a 10 minute warm up, and only try these after you can accomplish the 30 minutes or three miles.

When running intervals, use telephone poles as markers. Jog from one telephone pole to the next, when you reach it, sprint to the next telephone pole, then jog to the next one, then sprint to the next one, and so on. Try to fit about six to 12 of these intervals into your 30 minute run.

On the track, in the middle of your 30 minute run, sprint the straight away, then jog the corners. Again, try to fit about six to 12 of these into your 30 minute run.

Using a stopwatch, run as fast as you can for two minutes and then slow down and jog for one minute. Then repeat. Try to do about five to 10 of these during your normal run.

Once you are able to accomplish 10 of these intervals during your runs, you should have shaved quite a bit of time off of your 1.5 mile run.

So remember, don't focus on 1.5 miles as a distance, make that your minimum goal. Also, don't do too much too soon. If you have to work up to 1.5 miles, then give your body time to do that. Make sure you have the right shoes and that you are aware of the surfaces that you run on. Once you are ready, do some intervals. Most importantly, consistency, consistency, consistency!

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/PORTAL/images/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.

- 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.

Engineer-for-a-day program is alive and well in 2010

By Shawn Jacobs
Public Affairs Specialist

"A scientist discovers that which exists. An engineer creates that which never was." Theodore von Kármán

Sixty-three students from eight mid-state counties recently attended the engineer-for-a-day program at AEDC and other area businesses.

According to Early McKnight, a systems support engineer for Jacobs Technology Inc., participation in the program may have hit an all-time high.

"Certainly, as far back as anybody can remember, this is the largest group we've ever had," McKnight said regarding the event, which dates back at least as far as the early 1960s.

McKnight, along with Harry Clark, an engineering specialist for ATA, and Mike Hamby, a senior system engineer with Jacobs, helped organize the event, which was one of several activities held during National Engineers Week, coordinated by the local chapter of the Tennessee Society of Professional Engineers.

The increase in participation might be attributed to area high school guidance counselors, who did a particularly good job of getting the information out to the students this year, according to McKnight.

The majority of AEDC participants in the pro-

gram were engineers or scientists, but a number of other employees served in support roles and helped make the day a success, McKnight said.

"People are busy, and oftentimes people don't get the credit that they deserve," McKnight said. "That's one of the things I wanted to do this year - to let people know that we really do appreciate them putting forth the effort to help the students. It's good for the center, it's good for the students, it's good for our nation, and we really do appreciate it."

Howard Frederick, an ATA electrical design engineer, who served as a mentor for some of the students, explained the importance of the engineer-for-a-day program.

"It's such a good opportunity for them to see this, and it seems important to me that they do because it would be hard for them to think, 'well I want to go into electrical engineering,' if they don't really know what an electrical engineer does," Frederick said. "This is a very intensive engineering place, where they can really see a lot of different aspects of it and get a feel for what an engineer does."

The students, mostly juniors or seniors in high school, are generally surprised at how big everything is at AEDC, according to Frederick.

"I've done this several times and that's a pretty typical reaction," Frederick

said. "They haven't had any engineering classes yet, really. They've had some basic high school level science and math, so they're getting exposed for the first time to some of the practical engineering and problems that we face."

"We get a good bit of participation from area businesses ... and it's very important that we have that cooperation," McKnight said.

That participation allowed the program to offer exposure to areas of engineering and science that are not normally utilized at AEDC.

The list of all of the area industry participants included AEDC, Calsonic, Jacobs Technology Inc., the Tullahoma Utilities Board, Duck River Utility Commission, and Oliver Rhodes and Associates.

The engineer-for-a-day activities began with a welcome and interactive talk from AEDC Commander, Col. Michael Panarisi.

Next, recent engineering graduates explained to the students why they became involved in the discipline and came to work at AEDC, followed by a question and answer session.

Students were then given a tour of major base facilities. A luncheon at the Arnold Lakeside Center followed with a speech by AEDC Fellow Dr. John Adams on aerodynamics. Students then spent the afternoon with their various mentors.

AEDC to help celebrate 40 years of Earth Day with hike, activities

By Christina Norman
ATA Environmental Quality

The first Earth Day was celebrated March 21, 1970 because that was the first day of spring. Earth Day is the day designated for fostering appreciation of the earth's environment and awareness of the issues that threaten it.

In 1970, U.S. Senator Gaylord Nelson proposed a bill designating April 22 as a national day to celebrate the Earth. Since that time, Earth Day has been officially observed in April.

At present, Earth Day is observed in 175 countries and its annual recognition is spearheaded by the nonprofit Earth Day Network. The passage of the Clean Air Act, the Clean Water Act and the Endangered Species Act are legislation associated with the 1970 Earth Day.

This year, AEDC will celebrate the 40th Anniversary of Earth Day. Earth Day is credited for achieving historic advances in climate policy, renewable energy and green procurement and its basis has catalyzed millions of people to make personal commitments to sustainability.

Taking these small steps in homes, schools and businesses adds up to a collective action. Through annual Earth Day awareness, many volunteers are inspired to protect the earth's precious resources. It's all about the choices we make. Let's all do our part to protect the environment and make the world a

better place.

Local Earth Day activities

On Sunday, April 11, Dennis Horn (well-known local wildflower expert) will lead two separate hikes at the Short Springs Natural Area to recognize Earth Day.

Persons who wish to participate should meet Horn at the water tower shortly before 10 a.m. or 2 p.m. The hike will take participants down to Machine Gun Falls. Reservations are not required.

ATA Environmental scientists have planned base-level Earth Day activities for Thursday, April 22 from 10 a.m.-1 p.m. AEDC employees are invited to stop by the Main Auditorium to visit vendor exhibits. Several off-base vendors will provide useful information about recycling, biodegradable products, ornithology, etc. Attendees are encouraged to register for door prizes and stop by the refreshment trailer for free popcorn and soft drinks.

Approximately 60 fifth-grade students from East Lincoln Elementary School in Tullahoma will participate in an environmental awareness project by decorating canvas grocery bags with environmental messages.

Decorated bags will be judged and ribbons will be awarded for the best decorated bags when the bags are returned to the students for their parents' use in place of plastic bags.

Any questions about this year's Earth Day activities may be directed to Keith Carnley, at 454-7252, Christina Norman at 454-7383 or Mike Frederick at 454-3626.

Relay for Life race set for April 23-24

The American Cancer Society Relay For Life is being held at the Coffee County Fairgrounds in Manchester starting at 6 p.m. April 23 and going through the night ending at 6 a.m. April 24.

This year there are three teams comprised of people who are affiliated with the base. All teams

are looking for members interested in joining the team or making a donation toward the cause.

Team members do not have to work on base; friends and family members are encouraged to participate.

Team and team captains are as follows: Big Cheese and the Banditos - Team Captain Greg McCreary;

Chair Force - Team Captain Jack Ambridge; and Coins 4 A Cure - Team Captains Heather Fair and Kristi Deaton.

For more information, contact Dee Wolfe at 454-4313 or by e-mail at dee.wolfe@arnold.af.mil or Shawn Wolfe at 454-6500 or by e-mail at shawn.wolfe@arnold.af.mil.

Guest speaker praises Arnold AFB, award nominees and winners

By Janaé Daniels
High Mach Editor

Dan Clark, CEO of a multi-million dollar High Performance Consulting Firm and internationally recognized speaker, was the guest speaker at the 2009 annual awards banquet ceremony held March 11 at the Arnold Lakeside Center.

"I have spoken all over the world and to every single command and I've never heard of Arnold Air Force Base," Clark opened with his speech. "I've been a fan of General Arnold and all the things that he represents to innovation and to freedom. I couldn't help but think about General Arnold's vision as I toured the base."

Clark admitted he has never seen so much passion and excitement in people who work with inanimate objects and makes them come alive like what he saw represented at Arnold when he toured the facilities.

He realized the draw to Arnold wasn't necessarily the facilities in which people work, but it's in fact the people themselves that draw others here.

"The draw is the people," he said. "I have never been in an audience that is a coagulation of such intellect in my entire life - not just intellect with what you know, but intellect with what you do with what you know, which is the secret to success."

Clark classifies himself as an inspirational speaker because he wants the message to outlast the meeting.

"Whenever I get a chance to say yes to a speaking engagement, I volunteer my time and I do my best to do nothing more than to celebrate what you're all about and just remind you about how cool you are.



Dan Clark, guest speaker for the annual awards banquet, addresses a full crowd of military, DoD civilians, ATA contractor employees and community leaders. (Photo by Rick Goodfriend)

"We are here to celebrate what comes natural to you nominees," he said. "As a due course in what you do every single day we are

here to say 'congratulations' and we are here to celebrate excellence."

Clark noticed that people who work at Arnold have a

higher bar of expectations. "Not because it's expected by the United State Air Force, but because it's demanded of yourself," he

said. "That's the experience I now will share whenever I go to another base and talk

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Morris Ferry boat ramp repair complete

Work to replace the main boat ramp at Morris Ferry was completed this week. The ramp was completely removed and reconstructed because years of use and eroding materials. It was also extended from about 40 feet to 50 feet long. Now that the ramp has been completed, the Woods Reservoir water level is being allowed to rise to winter pool, which is 959.5 feet. (Photos by Rick Goodfriend)



Commander's Fit Tip:

Plateau busting - knowing your physical fitness potential

By Col. Michael Panarisi
AEDC Commander

"I've hit the wall!" ... "No matter how much I work out, I just don't see any improvement."

We've all been there. It can be really frustrating, but the good news is, unless you've really hit your potential, "breaking through" is easier than you think. Maybe you've heard this before ... "If you want to accomplish what you never could, you have to do what you've never done."

I don't think the author was talking about fitness training, but the message behind these words is right on target. When we've run out of steam, it's time to change the game.

The problem is right in front of us. How would you describe your workout? A regimen? A routine? That's the problem! We tend to get repetitive after a while, and literally focus on the elements we either enjoy

the most or give us the best (short term) results. But the body is the great adapting machine, and only responds to challenges.

Once you reach a level where you've adapted to the load, your improvement will level off. That's the signal to take a new approach. This assumes of course, that adaptation is the issue.

For many of us, the real culprit could be more insidious, and instead of actually reaching our potential, we'll likely far short of that target. But we just can't get there because we violated the "holy trilogy" of training: Train Hard, Race Harder, REST HARDEST!

If you are working out regularly, you've probably done OK in the "train hard" category. Since most of us don't race, that's not usually a big problem. So that leaves rest. I know it's counter intuitive, but this is really the most important and most overlooked part. Here's why.

A challenging workout

will actually overload your tissues. The damage is done, and the repair response is part of how we get stronger. But the repair process takes WAY longer than you think, and typically the time between workouts is much shorter than you need for a complete repair.

So over time, the lines meet...you improve initially as all the positive aspects of the workout combine, but the damage accumulates as you experience sequential incomplete/partial repairs.

Eventually, the muscles reach a point where ratio between the undamaged tissue and damaged tissue stabilizes, and any increase in the workout only makes it worse.

Typically, we'll feel sore or achy, so we won't take the damage to an extreme, but we just can't convince ourselves that it's our own fault. We chalk it up to a "bad day" or find some other explanation. But I learned this one the "hard way" and

I'm a true believer now.

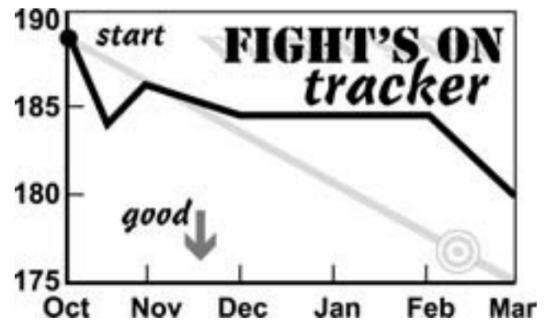
I was running very regularly on a deployment years ago. I had a great course laid out, and I attacked it with a vengeance for weeks. I was thrilled initially, as my time on the course came down steadily. But before long, the gains slowed to a crawl. No problem, I just needed to run more, right? WRONG!

I was plateaued, and didn't even know it. I did run more, and sure enough, no improvement. Then I got lucky. A flu bug was going around the camp, and hit me hard. I was off the road for two weeks.

When I finally got back into it, I was dreading having to make up all the lost time. Imagine my surprise when I finished the course nearly TWO MINUTES faster than the last run!

All I needed was a little rest, and a virus was the only thing that would make it happen. It doesn't have to be this way.

If you work out regularly,



one of the easiest methods is variation. If "cardio" is on the ticket, you need two things...a string of different events (elliptical, running, cycling, swimming) and a "hard day/light day" routine.

By varying the activity, and allowing some rest between workouts, we give the healing process more time to run.

But even a somewhat repetitive program isn't always the problem. The plateau is most common for those following the "hard day/hard day/skipped day/harder day" cycle, where "rest" isn't even part of the

game. This is why it's really important to actually track your progress. You can see the plateau coming. Then back off!

Plateaus are nearly inevitable, since we don't have a good way to really sense the repair process. But they are easy to break, and that's the secret...take a break!

Or at least "do something different" and soon you'll see results again. Better yet, do something different every day, schedule and apply the same discipline to your rest periods that you use for your workouts, and you may just avoid them altogether.

Arnold Golf Course 454-7076

Rec. League begins April 19. Get your teams together now and call for information on how to sign up. Teams consist of 4 people with play at 4:30 p.m. on Mondays and Tuesdays for 19 weeks. Cost is \$30 per person. See full schedule on H3.

Check out the **Pro Shop merchandise** specials. New merchandise is arriving for spring to include Ping men's and women's shirts for \$29.95, men's and women's rain suits for \$89.95 and new Tres Bien windshirts with zip-off sleeves for \$29.95.

Mulligan's Grill is open seven days a week from 7 a.m.-2 p.m. Try the "Good Morning Breakfast" special Monday through Friday. This includes two eggs, choice of bacon or sausage, hash browns and one biscuit and gravy for \$4.50. Breakfast is served until 10:30 a.m. Lunch specials are: **Monday:** southern reuben melt; **Tuesday:** cranberry walnut chicken salad croissant; **Wednesday:** turkey club panini; **Thursday:** chili cheese dog; **Friday:** club sandwich. All specials are served with fries and fountain drink for \$6. Try the soup of the day with a sandwich. Mulligan's Grill meals are a great value and include unlimited drink refills. Call ahead for advance or to go orders at 454-7076. Remember to show your Members First Plus membership card for a 10 percent discount on purchases of \$4 or more.

Arnold Lakeside Center 454-3350

Sign up now for three months of free club membership. All personnel who join any Air Force Club between now and May 30 will automatically receive three months free dues, a free cash back rewards program, and a chance to win \$5 - \$100 instantly upon application.

"We want all personnel to consider club membership and understand the benefits of club membership, and our "Three For Free" club membership campaign gives them the opportunity to try their club free for the first three months," said Mr. Fred McKenney, Chief of the Air Force Food and Beverage Division.

During the period everyone interested in Air Force Club membership should look for the membership promotional materials in their local club and other Services activities, McKenney said. 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 members use their club membership card in any on-base Services activity, they earn 2 percent cash back on every eligible purchase including at AAFES (to include gas) and the Commissary. Additionally members can 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, members now can also redeem for travel, to include airline tickets, hotel and car rental - super flexibility - and it is all free, as a benefit of club membership. Air Force Clubs offer 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. The club is a great place for entertainment and meeting new friends in a fun and safe environment. Join now - the first three months are free on us.

Pizza Wednesdays available for dine in or carry out from 11 a.m.-1 p.m. Call ahead to 454-5555 to place orders. No delivery available. For better service, call on any day and preorder. Pizzas are available in 12 or 16-inch and range in price starting from \$7. House favorites include the Falcon (cheese), Eagle (pepperoni and cheese), Stratofortress (pepperoni and bacon Stromboli with mozzarella and ricotta), Mustang (ham, bacon, pineapple and cheese), Spirit (veggie - mushrooms, green pepper, onion, tomato, black olives, basil, olive oil and feta cheese) and Galaxy (pepperoni, sausage, ham, green pepper, onion, mushrooms, black olives, bacon and extra cheese). Gourmet specialties include the Warthog (ground beef, cheddar, red onion,



Easter egg hunt set for April 3

Youth Programs will host the annual Easter Egg Hunt on April 3 beginning at 11 a.m. The event will be held on the back lawn for ages 2-12. Prizes will be awarded in three ages groups: 2-5 years, 6-8 years and 9-12 years. Call 454-3277 to sign up by March 25. Refreshments will be served and Peter Cottontail will make a special appearance. (Photo provided)



Softball to begin soon

Open League and Women's League Softball will begin the end of April. Get your teams together now and sign up as individuals or teams. Games will be played on Mondays for Women's League and Tuesdays and Thursdays for Open League. Three games are played each night beginning at 5:30 p.m. (Photo by Rick Goodfriend)

Group Class Big 5 challenge in April

The Fitness Center challenges all eligible group class participants to complete one of each class during the month of April. Choose from Cycling, Yoga, Pilates, Piloga and Zumba. This challenge is designed to show the diversity of group classes offered and encourage individuals to try new forms of physical activity. Participants who complete the "Big 5" will receive a prize. Cycle Pump classes are Monday (easy paced), Tuesday (endurance) and Thursday (challenging) from 11 a.m.-noon. Yoga is on Monday from 11 a.m.-noon. Zumba is Tuesday and Thursday from 4:15-5:15 p.m. Pilates is on Wednesdays from 11 a.m.-noon. Piloga is on Fridays from 11 a.m.-noon. Cycling and Zumba classes are held in the Eagles Nest room upstairs. All other classes are held on the gym floor.

ALC holds member discount weekend

Arnold Lakeside Center will offer specials to Members First Plus members only April 16 and 17. The dining room is open to all eligible users but only members may take advantage of the special offers. On April 16 members receive 25 percent off any regular priced dining room menu item. This does not include Express or Pizza menus and is for dine in only. The April 17 special is BOGO Night - Buy one regular priced menu item from the Express menu and get a second item of equal or lesser value from the Express menu free. This offer does not include the Pizza or Dining Room menus and is for dine in only. These special offers are not valid with Services bucks or any other discount offer and do not include beverages. Call 454-3350 for reservations or more details.

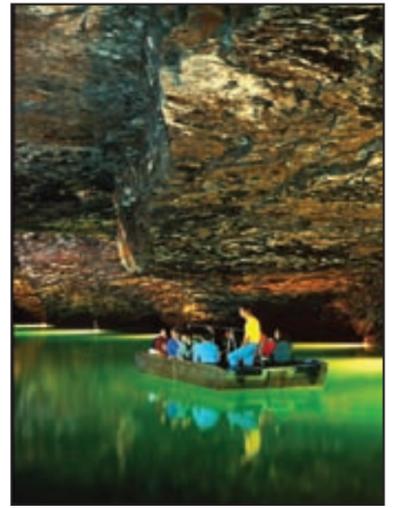
Administrative Professional's day specials

Arnold Lakeside Center and Mulligan's Grill at Arnold Golf Course would like to recognize Administrative Professionals' Day with special offers. Arnold Lakeside Center will be open for lunch from 11 a.m. to 1 p.m. Order from the Express or Hap's Pizza menus.

Call ahead orders to 454-3350 for dine in or carry out. At Mulligan's Grill, purchase one lunch combo at regular price and receive a 20 percent discount off any second lunch combo purchased. Call 454-7076 for advance orders. Mulligan's Grill serves lunch from 10:30 a.m.-2 p.m.

ALC to host Easter lunch buffet

Arnold Lakeside Center will offer a special Easter Sunday lunch buffet April 4 from 10:30 a.m.-1:30 p.m. Reservations are required by March 31 by calling 454-3350. Cost is \$17.95 for members, \$19.95 for nonmembers and \$9.95 for ages 12 and under. The menu includes sliced roasted turkey breast, sliced London broil, sliced pit ham, baked catfish fillet, corn on the cob, steamed broccoli, fried okra, green beans almondine, mashed potatoes, baked macaroni and cheese, pasta salad, spinach salad, Italian salad, brown and white gravy, rolls, fruit gelatin, pecan pie and carrot cake. The children's buffet includes pepperoni pizza, chicken tenders, macaroni and cheese, corn on the cob, mashed potatoes and cookies.



(Photo provided)

Outdoor Recreation plans trip for May

Outdoor Recreation is planning a trip to The Lost Sea Adventure May 15. Sign up by April 9 for this all day trip to Sweetwater, Tenn. This event is a tour of the largest underground lake in America. Two tours will be done. The adventure begins with a guided tour of the caverns. This involves a three-quarter mile round-trip walk on wide sloping pathways. While touring the caverns and underground lake guides will tell of the cavern's exciting and colorful history. They will also explain the fascinating geological development of the immense cavern rooms and rare formations. At the bottom of the cave board a glass-bottom boat for an exciting trip on the Lost Sea. The lake, covering more than four acres, is recognized by the U.S. Department of the Interior as a Registered National Natural Landmark. This is due to the natural phenomenon of the lake as well as the abundance of a large collection of rare anothodites, more commonly known as "Cave Flowers." The lake is located 140 feet below the ground level, so coming up can be a hike. The tour lasts approximately one hour and 15 minutes and the temperature remains a pleasant 58 degrees. Along with the boat ride and cavern tour, the flashlight tour delves into an undeveloped section of the cave. This portion lasts approximately one hour and 35 minutes. Be sure to bring a flashlight and money for meals. The trip departs from Outdoor Rec. at 8 a.m. and will end at 6 p.m. Cost is \$40 per person (\$25 for ages 12 and under). There will be a cancellation fee of \$10 if canceled after April 30. There must be a minimum of 20 participants to take this trip. Maximum capacity is 26. Call 454-6084 to sign up or for more details.

Happy Spring Team AEDC!



Horizon is a 704th Services Division publication designed to inform our customers of events and specials in 704th Services Division activities. All program dates, times and prices are subject to change. 704th Services Division mailing address is at 100 Kindel Drive, Suite C321, Arnold AFB, Tenn. 37389-3321

Services information written and provided by Tanya Haggard

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704th Services Division Phone Numbers

Area code 931 DSN 340
 Services Chief – 454-7779
 Services Deputy – 454-5915
 Community Services Flight Chief – 454-4062
 Complex Manager – 454-3367
 Arnold Lakeside Center/catering (ALC) – 454-3350
 Hap's Pizza – 454-5555
 Membership Information 454-3367
 Fitness Center (FC) – 454-6440
 Outdoor Recreation (ODR) – 454-6084

FamCamp – 454-4520 or 454-6084
 Marina – 454-6084 or 454-3838
 Recycling – 454-6068
 Family Child Care – 454-3277
 Family Member/Youth Programs – 454-3277
 Human Resources – 454-5481
 Marketing & Sponsorship – 454-3128
 Barber Shop – 454-6987
 Wingo Inn – 454-3051
 Golf Course (GC) – 455-5870 or 454-7076

April 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Fitness Center Group Class Big 5: Participate in one of each class offered during April and receive a prize		See Outdoor Rec. article section for Good Time in Gatlinburg trip options for June; call 454-6084 now if interested		1 FC Cycle Pump-Yellow Shirt cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night, dinner 5-9 p.m.; movie 6:30 p.m. "Sherlock Holmes," PG-13	2 FC Piloga 11 a.m. ALC Cedar plank red snapper, \$13.95 member, \$14.95 nonmember, 5-9 p.m. FamY Movie Night 6-9 p.m., age 9 and up, free popcorn and \$1 pizza by the slice, 454-3277	3 FamY Easter Egg Hunt, ages 2-12, 11 a.m., sign up by March 25, 454-3277 ALC Express and Pizza menu to go only, 5-9 p.m.
4 ALC Easter Sunday lunch buffet, 10:30 a.m.-1:30 p.m., \$17.95 members, \$19.95 nonmembers, \$9.95 age 3-12, does not include beverages, reservations required 454-3350	5 FC Cycle Pump Class - Zesty cycling 11 a.m. FC Yoga 11 a.m. FC Bowling League, Tullahoma Lanes, 5 p.m.	6 AEDC Woman's Club luncheon, 9:30 a.m., 455-5676 FC Cycle Pump Class - Endurance cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	7 ALC Hap's Pizza, 11 a.m.-1 p.m., carry out or dine-in, call ahead 454-5555 FC Pilates 11 a.m.	8 FC Cycle Pump-Yellow Shirt cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night, dinner 5-9 p.m.; movie 6:30 p.m. "When in Rome," PG-13	9 ODR Deadline to sign up for Lost Sea Adventure Trip, 454-6084 FC Piloga 11 a.m. ALC Chicken wellington, \$11.95 member, \$12.95 nonmember, 5-9 p.m.	10 ODR Paintball 9:30 a.m., \$20 includes lunch, ages 10 and up. Call 454-6084 ALC Seared tataki tuna steak crusted with black sesame seed and pepper, \$14.95 member, \$15.95 nonmember, 5-9 p.m.
11	12 FC Cycle Pump Class- Zesty cycling, 11 a.m. FC Yoga 11 a.m.	13 FC Cycle Pump Class- Endurance Cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	14 ALC Hap's Pizza, 11 a.m.-1 p.m., carry out or dine-in, call ahead 454-5555 FC Pilates 11 a.m.	15 FC Cycle Pump Class-Yellow Shirt cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night, dinner 5-9 p.m.; movie 6:30 p.m. "Avatar," PG-13 ALC Spring Chess Club, 5:30-8:30 p.m., in the Landing	16 FC Piloga 11 a.m. ALC Members First Plus members receive 25% off any regular priced dinner menu item, 5-9 p.m. <i>* ALC member discount weekend</i>	17 ALC BOGO Night: Buy one regular priced Express menu item and get a second of equal or lesser value free <i>* ALC member discount weekend</i>
18	19 FC Cycle Pump Class- Zesty cycling, 11 a.m. FC Yoga 11 a.m. GC Rec League begins 4:30 p.m.	20 FC Cycle Pump Class- Endurance Cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. GC Rec League 4:30 p.m.	21 FC Pilates 11 a.m. Administrative Professional's Day specials ALC Express Menu and Hap's Pizza, 11 a.m.-1 p.m., carry out or dine-in, call ahead 454-5555 or 454-3350 GC Mulligan's Grill - purchase one lunch combo at regular price and get a second lunch combo 20% off, 454-7076	22 FC Cycle Pump Class-Yellow Shirt cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night, dinner 5-9 p.m.; movie 6:30 p.m. "The Tooth Fairy," PG FamY 4-H meeting, 5-6 p.m.	23 FC Piloga 11 a.m. ALC Chicken florentine, \$11.95 member, \$12.95 nonmember, 5-9 p.m.	24 ALC Grilled sirloin tips over wild rice, \$10.95 member, \$11.95 nonmember, 5-9 p.m.
25	26 FamY Deadline to return Air Force Space Camp application, 454-3277 FC Cycle Pump Class- Zesty cycling, 11 a.m. FC Yoga 11 a.m. GC Rec League 4:30 p.m.	27 FC Cycle Pump Class- Endurance Cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. GC Rec League 4:30 p.m. FC Intramural Softball Open League begins 5:30 p.m.	28 ALC Hap's Pizza, 11 a.m.-1 p.m., carry out or dine-in, call ahead 454-5555 FC Pilates 11 a.m.	29 FC Cycle Pump Class-Yellow Shirt cycling, 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night, dinner 5-9 p.m.; movie 6:30 p.m. "The Spy Next Door," PG	30 FC Piloga 11 a.m. ALC Prime rib for two, \$33 member, \$35 nonmember, 5-9 p.m.	

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: Pizza 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.

Family Member/Youth Programs – Youth Open Rec. Tuesday and Thursday 4-7 p.m., Wednesday 1-6 p.m., Friday 4-9 p.m., Saturday 12-5 p.m.

Outdoor Rec./Arts & Crafts – Main Office, Check In, Marina and Auto Shop Tuesday-Saturday 10 a.m.-5 p.m.; Marina by appointment only.

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 8 a.m.-5 p.m.. Mulligan's Grill: daily 7 a.m.-2 p.m.

Recycling – Monday-Friday 7 a.m.-4 p.m.

Wingo Inn – Monday-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.-2 p.m.; Thursday 8 a.m.-noon

BX/Commissary customer eligibility

AEDC government civilian and AEDC contractor employees have access to the following limited items at the base exchange (BX): consumable items including toiletries and over-the-counter pharmaceuticals, food items such as candy, chips, little meal items, hot dogs and soft drinks. Alcohol and cigarettes are not included as consumable items. However, only active duty and retired uniformed services personnel and their dependents are eligible to use the base commissary next to the BX. The commissary hours of operation: Tuesday, Wednesday and Friday 9 a.m.-5:30 p.m., Thursday 9 a.m.-6:30 p.m. and Saturday 8 a.m.-4:30 p.m. The BX hours of operation: Tuesday through Friday 9 a.m.-5:30 p.m., and Saturday 8 a.m.-4:30 p.m. For more information contact Janie Warren, BX manager, at (931) 454-7153 or Jeff Lillard, Commissary manager, at (931) 454-3545.

AAFES Dividends

Dividends generated from Army & Air Force Exchange Service (AAFES) base exchange overall earnings are a major contributor to 704th Services non-appropriated fund construction and renovation projects as well as equipment purchases. 704th Services Division would like to thank all AAFES customers for their support. Dividends received for February 2010 totaled \$9,473.11.

The Fitness Center now has a small family-friendly fitness area located in the upstairs portion of the facility where parents can supervise children while performing workouts.

Arnold's finest honored at annual awards banquet

<p>ATA Team Member of the Year</p>  <p>Nikki Morris Integrated Test & Evaluation, Administrative Support (NES)</p>	<p>ATA Team Member of the Year</p>  <p>Ray McCoy Resource Provisioning, Administration</p>	<p>ATA Team Member of the Year</p>  <p>Kathleen Bajar Investments, Process Improvements</p>	<p>ATA Team Member of the Year</p>  <p>Dan Johnson Support Services, Program/ Project Management</p>	<p>Outstanding Craft Person of the Year</p>  <p>Brad Pearson Information Technology & Systems</p>	<p>ATA Customer Service Team Member of the Year</p>  <p>Jim Glover Safety & Health, Internal Customer</p>
<p>ATA Customer Service Team Member of the Year</p>  <p>Sharon Rigney Integrated Test & Evaluation, External Customer; Technical Project Leader for ATA Technical award</p>	<p>ATA Technical Award Winner of the Year</p>  <p>Donald Brandt Facilities Operations & Maintenance, Engineering Design</p>	<p>ATA Technical Award Winner of the Year</p>  <p>Charlie Smith Integrated Test & Evaluation, Engineering Analysis</p>	<p>ATA Technical Award Winner of the Year</p>  <p>Dr. Don Malloy Integrated Test & Evaluation, Engineer of the Year</p>	<p>William Dunne People's Choice</p>  <p>Alan Fleanor 704th Maintenance Group, Management Operations Division</p>	<p>AFMC Community Services Flight Technician</p>  <p>Deborah Trice 704th Mission Support Group, Services Division</p>
<p>Air Force Civilian - Clerical/Technical Support</p>  <p>Shawn Wolfe 704th Maintenance Group, Executive Support</p>	<p>Air Force Civilian - Administrative</p>  <p>Amy Foster Enterprise Acquisition, Chief Enterprise Acquisition Division</p>	<p>Air Force Civilian - Scientist/Engineer</p>  <p>Larry Davis 804 Maintenance Squadron, Space & Missile Asset Manager</p>	<p>Air Force Civilian - Non Appropriated Fund</p>  <p>NAF Category I Charles Evans Jr. 704th Mission Support Group, Services Division</p>	<p>Air Force Civilian - Non Appropriated Fund</p>  <p>NAF Category II Charles Evans Jr. 704th Mission Support Group, Services Division</p>	<p>Air Force - Noncommissioned Officer</p>  <p>Tech. Sgt. Jamie Johnson 704th Maintenance Group, Precision Measurement Equipment Laboratory</p>
<p>Air Force - Senior Noncommissioned Officer</p>  <p>Master Sgt. Carl Miller, 704th Mission Support Group, Logistics Munitions Superintendent</p>	<p>Air Force - Company Grade Officer</p>  <p>Capt. Brandon Herndon 716th Test Squadron, Test Project Manager</p>	<p>Air Force - Honor Guard Member of the Year</p>  <p>2nd Lt. Rachael Clark 650th Test Systems Squadron, Investments Project Manager</p>	<p>Air Force - Reservist of the Year</p>  <p>SNCO, Master Sgt. Gregory Notti Safety Office, Weapons Safety Manager</p>	<p>Air Force - Reservist of the Year</p>  <p>CGO, Capt. Tim Budke 804th Maintenance Squadron, Senior Engineer</p>	<div style="border: 1px solid black; padding: 10px; font-size: 2em; font-weight: bold;"> <p>Good job Team AEDC!</p> </div>

Gen. Lee Gossick Team Excellence winner Arcs THAAD Heatshield Test Team



Technical Achievement Award winner Missile Defense Interceptor-in-the-Loop Test Team



Awards from page 3

to them about Arnold Engineering Development Center.”

As an outsider, as Clark refers to himself, he sees Arnold as an individual and collective group of intellectuals who are willing to do things that other people are not willing to do.

“That’s what’s going to bring economic development to Tullahoma,” he said. “That’s what’s going to bring economic development to Coffee County – it’s the people.”

Charlie Smith is a technical award winner and was humbled by his award.

“It is difficult for me to receive an individual award for what is so much a team effort,” Smith said. “The award means a lot more to me representing my opportunity to serve with a great team of professionals for so many years. When I think of what I have accomplished I will always remember the help and fellowship shared with both fellow colleagues here at AEDC and customers across the nation.”

ATA team member of the

year in administration, Ray McCoy, felt it was a great honor to win.

“Just when you think you are just going along doing your job, someone gives a compliment like this,” McCoy said. “I’ve been blessed to work with exceptional people in both work force qualification and employee development. I send out thanks to all of them.”

Amy Foster was awarded the Air Force civilian of the year in the administrative category.

“If I could sum it up in a word it would be - humbling,” Foster said. “This award is more of a team award than an individual award. PK is such a close knit family with members

that complement each other’s strengths and off-set each other’s weaknesses. This award shows how well 25 PKers work together to fulfill our mission.”

For Nikki Morris winning a non-exempt salaried ATA team member of the year award is not only complimentary to her but to her whole team of coworkers.

“It is an honor to receive this award,” she said. “I work with a great group of people who are not only intelligent and extremely skilled at what they do, but are also just like a family to me. I could not have achieved this award without them and this is a reflection of all of our hard work and dedication to this great country we live in.”

Day-in-the-life experience opens eyes, inspires

Arnold AFB's annual Job Shadow Day offers young people a window into careers

AEDC's Job Shadow Day was held March 9. More than 35 students from grades 8-12 were encouraged to visit their parents or sponsors' workplace and spend the day shadowing them on the job. Students were welcomed by Col. James Jolliffe, 704th test group commander and Steve Pearson, ATA deputy general manager at the Main Auditorium and watched the center video before going on tour. After the tour, the students spent the remainder of the day at their parents or sponsors' workplace.



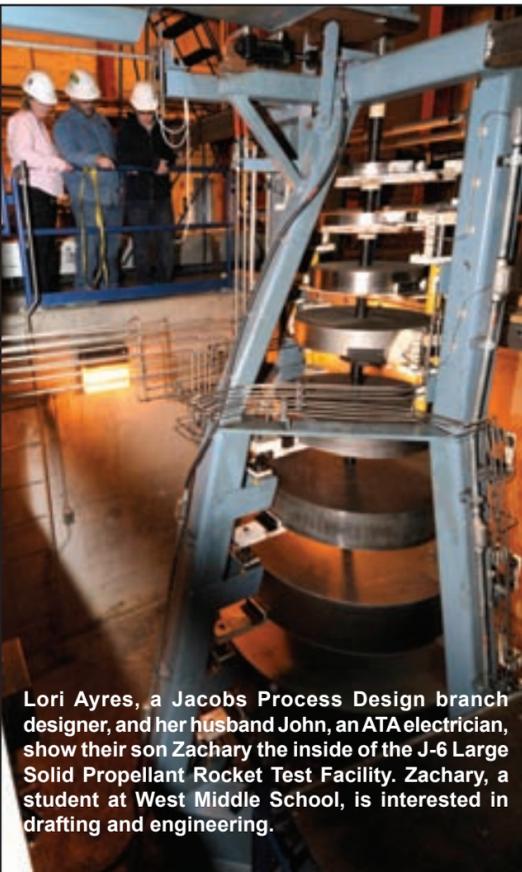
Tim Orange, pipefitter, explains to his son Ethan, who is a student at Grundy County High School, what he does at AEDC. (Photos by Rick Goodfriend)



From left, Natasha Young, ATA administrative assistant for human resources, explains some aspects of her job to Lauren Ring, a La Vergne High School senior, during Job Shadow Day at Arnold AFB March 11. The high school senior's father is Jim Ring, an ATA pipefitter. (Photo by Philip Lorenz III)



Ed Walker, utility operator in the Cooling Water section of the Utilities Operations branch, shows his son Garrett the cooling water configuration in the Aeropropulsion Systems Test Facility exhaust building. Garrett is a student at Warren County High School.



Lori Ayres, a Jacobs Process Design branch designer, and her husband John, an ATA electrician, show their son Zachary the inside of the J-6 Large Solid Propellant Rocket Test Facility. Zachary, a student at West Middle School, is interested in drafting and engineering.



Bob Thomas, who is in the Resource Provisioning Support Control Branch, explains the Firebee Drone display in the ETF lobby to his daughter Cortney. Cortney is a student at Franklin County North Middle School.



Design Engineer Andrew Daniel explains his work to his son Clay who is a student at Tullahoma High School. Clay is interested in a career working with computers.



Jim Burns, chamber lead for the 718th Test Squadron, shows a port opening at the top of the Mark 1 Space Chamber to his daughter Kellye. She is a West Middle School student interested in space physics.

Gray from page 1

Bill and Peggy Gray pose for a photo at a recent AEDC function at the Arnold Lakeside Center. Bill is retiring April 2 after 32.5 years of serving the AEDC community both as a former contractor with ARO and now as an Air Force civilian. Peggy still has a few years before she decides to retire. (Photo by Rick Goodfriend)



“I think we complement each other very well. I can’t tell you how many times he has simply said, ‘Now Peg, you just need to calm down’ and over time, I have become a much calmer person.”

Prior to AEDC, Bill was an analytical engineer for Pratt & Whitney Aircraft at West Palm Beach, Fla., where he was responsible for updating F100 engine trim curves and operational procedures. When he joined AEDC in October 1977, Bill was a project engineer in the T-1 project office for the center’s first prime contractor ARO [Arnold Research Organization]. By the end of the contract in 1980, Bill decided to join the ranks of the DoD civilian work force and has been there ever since.

Looking back, Bill feels the construction of ASTF and the running of the first engine was one of his most memorable times at the center. At the time, he was the senior project engineer in, what was then called, Systems Integration and Operations Division, ASTF Program Office at AEDC.

“The first time we ran an engine in ASTF was an exciting time for me. We had been working on it for a long time

so it was pretty exciting to see it run,” he said.

For Ron Polce, 704th Test Systems Group director, it’s been a great 30-year relationship and friendship with the test manager, investments chief, support director, technical director, Air Force senior leader and gentleman farmer from Moore County. Polce first met Bill during his interview to join the ASTF activation team.

“What impressed me during Bill’s interview still impresses me and all who meet and know Bill,” Polce said. “Although very casually dressed with a full Grizzly Adams beard, Bill was soft spoken yet confident. It was easy to detect his genuine sincerity and in just a few minutes we knew he was a competent jet engine tester, loved working at AEDC and could lead our ASTF check-out program.

“Our choice was easy and during the last three decades, Bill has continued to confidently and professionally lead AEDC.”

Mike Barlow, Utilities Operations manager, and Bill Hall, ATA’s Facilities Operations & Maintenance business manager, have also worked with Bill Gray and

have fond memories of their different projects they worked on together.

“Bill always had AEDC’s best interest at heart and would quietly seek out the relevant facts on any issue,” Barlow said. “He made decisions and took actions accordingly. As a result, he stood out as a voice of corporate knowledge, reason and consistency, especially during periods of rapid change. Bill was a pleasure to work with and cared about AEDC’s people.”

Hall feels AEDC has been fortunate to have Bill as a leader for many years, and feels it is losing one of its finest.

“Over the years Bill has developed into a friend as well as a government counterpart and someone I could trust to help with issues be it an AEDC or a personnel problem,” Hall said. “He also took the time to listen and help make the right decision, but also always had the time to stop and ask ‘How’s the running going?’”

Not to sound cliché like most who retire, but Bill says he will miss the people the most.

“Everybody says it’s the people and it is,” he said. “I

have enjoyed looking back on the people I’ve worked with. I think there’s a certain amount of comfort in a large group of people that you’ve worked with and there’s mutual respect and a lot of them I am not going to see again, unless they come to Lynchburg and they are certainly welcome.”

Briefs from H1

**Arnold Lakeside Center
454-3350**

tomato, spinach and sesame seeds), Phantom (spinach, basil, sun-dried tomatoes, garlic, olive oil, pesto, mozzarella and parmesan), Blackbird (chicken, spinach, jack cheese, Alfredo sauce, parmesan, gouda and mozzarella) and Raptor (pepperoni, ham, sausage, bacon, ground beef, olive oil and cheese). Fly solo and build your own (\$1 for individual toppings). The pizza menu is also available for dinner on Thursday, Friday and Saturday from 5-9 p.m.

Movie nights are every Thursday at 6:30 p.m. with dinner available from the Express or Pizza menus from 5-9 p.m. The schedule for April is: **April 1** - "Sherlock Holmes," rated PG-13 starring Robert Downey Jr., Jude Law and Rachel McAdams. Detective Sherlock Holmes and his stalwart partner Watson engage in a battle of wits and brawn with a nemesis whose plot is a threat to all of England. **April 8** - "When in Rome," rated PG-13 starring Kristen Bell and Josh Duhamel. Beth is a young, ambitious New Yorker who is completely unlucky in love. However, on a whirlwind trip to Rome, she impulsively steals some coins from a reputed fountain of love, and is then aggressively pursued by a band of suitors. **April 15** - "Avatar," rated PG-13 starring Sam Worthington, Zoe Saldana and Sigourney Weaver. A paraplegic marine dispatched to the moon Pandora on a unique mission becomes torn between following his orders and protecting the world he feels is his home. **April 22** - "Tooth Fairy," rated PG starring Dwayne Johnson and Ashley Judd. A bad deed on the part of a tough minor-league hockey player results in an unusual sentence: He must serve one week as a real-life tooth fairy. **April 29** - "The Spy Next Door," rated PG starring Jackie Chan and Amber Valletta. Former CIA spy Bob Ho takes on his toughest assignment to date: looking after his girlfriend's three kids, who haven't exactly warmed to their mom's beau.

Friday night dining room specials available from 5-9 p.m. **April 2:** cedar plank red snapper, \$13.95 for members, \$14.95 for nonmembers. **There will be no First Friday Jam due to Good Friday.** **April 9:** chicken Wellington, \$11.95 for members, \$12.95 for nonmembers. **April 16:** Air Force Club Member Discount Weekend: Members receive 25 percent off any regular priced dining room menu item (does not include Express or Pizza menus; dine in only; not valid with Services bucks or any other discount offer; does not include beverages). **April 23:** chicken Florentine, \$11.95 members, \$12.95 nonmembers. **April 30:** Prime rib for two, \$33 for member, \$35 nonmember. Please call for reservations to ensure a special is available. All specials and times are subject to change without notice.

Saturday availability and specials: **April 3:** Express and Pizza menu to-go orders only due to special event. Dining room closed. **April 10:** seared tataki tuna steak crusted with black

sesame seed and pepper, \$14.95 for members, \$15.95 for nonmembers. **April 17:** Air Force Club Member Discount Weekend: BOGO Night - Buy one regular priced menu item from the Express menu and get a second item of equal or lesser value from Express menu free (does not include Pizza or Dining Room menus; dine in only; not valid with Services bucks or any other discount offer; does not include beverages). **April 24:** grilled sirloin tips over wild rice, \$10.95 for members, \$11.95 for 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.

Spring Chess Club scheduled for every Thursday starting April 15-May 27 for all ages (under age 13 will need parent present). Play format is open to all skill levels and is not structured. Players are required to observe all rules of sportsman-like conduct during play and towards all players regardless of skill level. Play will be in The Landing from 5:30-8:30 p.m. Sign up by April 14. Express and Pizza menus will be available until 8 p.m. There must be at least four people signed up to conduct the club.

The ALC is available for special functions. Call 454-3350 for details or to book a function.

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

Youth Movie Night set for April 2 from 6-9 p.m. Ages 9 and up are invited to the Open Rec Center to watch a movie. There will be free popcorn and pizza by the slice for \$1. Juice and water will also be provided free of charge.

Join the Youth Center for **4-H Club meetings** March 25, April 22 and May 20 from 5-6 p.m. 4-H Club is designed for youth in the 4th grade through 18 years of age.

Air Force Space Camp 2010 applications being accepted. The camp will be conducted July 25-30 at the U.S. Space and Rocket Center in Huntsville, Ala. Forty-eight scholarships are available for youth ages 12-18. Interested youth must complete the application and apply through the Youth Center. Applicants may not have attended previous space camps. This program is open to family members of active duty Air Force, other branches of the military assigned to or living on Arnold Air Force Base, Air Force retired military, Air Force civilian and contractor employees, Air National Guard and Air Force Reserve members. Airline or private vehicle travel costs to Huntsville are the responsibility of the attendee. Lodging, meals and activity costs are funded at no cost to the participant. All applications must be fully completed and returned to the Youth Center by April 26. Call for complete details on how to apply.

4-H, Operation Military Kid (OMK) and Joint Fam-

ily Support Assistance Program (JFSAP) One Week Residence Camp to be held in Crossville at the Clyde York 4-H Center May 31-June 4. Youth, grades 6-8 as of Jan. 1, are invited to apply and must be a legal dependent of an armed services member (any branch) in the deployment cycle (includes those who are currently deploying, have been deployed or who will be deployed in the near future). The camp includes activities such as swimming, crafts, ropes course, woodworking, etc. and participants will have a chance to meet other youth from across Tennessee. Cost is \$20 per camper and covers the cost of camp, T-shirt and various incidentals. Transportation will be provided from the Coffee County 4-H Extension Office. Applications are available at the Youth Center and must be returned along with registration fee (made payable to Tennessee National Guard Family Program). Camp will fill up quickly so register early. Applicants are accepted on a first come, first served basis.

Camp Adventure returns June 1-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 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 1:** June 1-4; Zoo-prise Party Parade
- Week 2:** June 7-11; Viking Sails & Dragon Tales
- Week 3:** June 14-18; Space Raiders & Cosmic Invaders
- Week 4:** June 21-25; Rangers, Robots & Toybox Treasures
- Week 5:** June 28- July 2; "Fin"tastic Ocean Jamboree
- 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.

**Fitness Center
454-6440**

Pot O' Gold Run set for March 31. This is an on your honor run for two laps around the Fitness Center trail anytime during regular hours. The first twenty-five to sign up get event T-shirts.

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.

Open League and Women's League Softball will begin the end of April. Get your teams together now and sign up as individuals or teams. Games will be played on Mondays for Women's League and Tuesdays and Thursdays for Open League. Three games are played each night beginning at 5:30 p.m.

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 set for April 10. 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.

Would you be interested in a **"Good Time in Gatlinburg"** June trip package? The trip would possibly involve whitewater rafting on the Pigeon River, a zip line tour of the Smokies and a dinner show at the Dixie Stampede. The following package options are being offered. **Package 1:** one night, two days (June 5-6) with zip line and Dixie Stampede for \$245. Depart from ODR at 5 a.m. June 5, ride the zip line at 1 p.m. EST then Dixie Stampede dinner and show at 8:30 p.m. EST. Return to ODR approximately 4 p.m. June 6. Another alternate to this

package is departing at noon June 4 with Dixie Stampede at 8:30 p.m. EST then zip line at 1 p.m. EST June 5 and return to ODR approximately 8:30 p.m. **Package 2:** one night two days (June 5-6) with whitewater rafting and Dixie Stampede for \$215. Depart from ODR 5 a.m. June 5, rafting at noon EST then Dixie Stampede at 8:30 p.m. EST. Return to ODR approximately 4 p.m. June 6. An alternate to this package is depart at noon June 4 with Dixie Stampede at 8:30 p.m. EST. Raft at 11 a.m. EST June 5 and return to ODR approximately 5:30 p.m. **Package 3:** one night, two days (June 5-6) with rafting, Dixie Stampede and zip line for \$280. Depart from ODR at 5 a.m. June 5 then raft at noon EST and Dixie Stampede at 8:30 p.m. EST. Zip line at 11 a.m. EST then return to ODR approximately 5:30 p.m. All packages are set activities and there is no omitting of unwanted activities. If you are interested in any of these options, call 454-6084.

The **Armed Forces Vacation Club (AFVC)** is a "space available" program that offers Department of Defense affiliated personnel the opportunity to take affordable condominium vacations at resorts around the world for only \$329 per unit per week. All AEDC personnel are eligible to use this program. The current seven-day, Space-A, condo rental offer is a great value, but some people may like other vacation choices and support as well - those that can't travel off-season or on short notice. To help meet this need, they also offer a separate travel club that provides 24-hour service for discounted airline, rental cars and hotel reservation services, as well as discounted cruise and tour packages. Book airline tickets, rental cars and hotel reservations and getting a 5 percent cash rebate after the trip. To make a reservation, travelers need their AFVC Account Number (7033-xxxx), the toll-free number (1-800-724-9988), a credit card number, an idea of when and where they want to go and the desire to get away, relax and have fun! If this is your first call, tell them you are a "first-time AFVC caller." The vacation guide will take your name, address, telephone number, AFVC Installation Number (Arnold is #327) and assist with making your reservation. At the end of the call, even if you do not complete a reservation, the guide will assign you an account number for future use. Your Installation Number is very important. 704th Services will receive a commission for your confirmed reservation to put back into programs offered for you locally.

**Wingo Inn
454-3051**

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

**Gossick Leadership Center
454-3024**

The Gossick Leadership Center (GLC) is now part of the Services Division. Events such as meetings, conferences, luncheons, and dinners may be booked through the Services Conference Center Manager (CCM) up to one year in advance. Requests must be made in writing by e-mail to arnold.glc@arnold.af.mil. All event coordinators are required to sign an agreement. Official unit functions are authorized at no charge and are defined as bona fide official meetings or training held as part of the normal duty day. Unofficial and private functions may be held for authorized users at a fee. Community members may host events with the approval of the Services Director for a fee. Outside food and beverages are not allowed. First consideration must be given to Arnold Lakeside Center. In the event they cannot accommodate, an outside source may be utilized with CCM approval. For more information contact the CCM at (931) 454-3024 or the Community Services Flight Chief at (931) 454-4062.

**AEDC Woman's Club
455-5676**

The AEDC Woman's Club will meet April 6 at the Arnold Lakeside Center. Social time will begin at 9:30 a.m. and the meeting will start at 10 a.m. Dr. Mary Lou Apple, President of Motlow State Community College, has graciously agreed to be our speaker for the April meeting. She will be talking about scholarships, how they have helped students at Motlow and maybe a success story or two. These life changing experiences would be more difficult and maybe impossible without the help of our fundraising and our dedicated ladies who look at all the candidates and choose the winners. Come see how the fruits of our labor have helped the younger generations. We will also be able to congratulate our winning seniors. Make your reservation by calling 455-5676.

This is a private organization which is not part of the Department of Defense or any of its components and it has no governmental status.

2010 Arnold Golf tournament schedule

April 19	AEDC Golf League Begins
April 24	Season Opener (4-Person Scramble) (18-Holes)
May 6	Thursday Night Dog Fight Begins
May 15	Two-Person Triple Play Tournament (27-Holes / 1-Day)
June 5	AEDC Police Tournament (18-Holes)
June 19	13th Annual London's Invitational
June 26-27	AGC Member-Guest Tournament (36-Holes / 2-Days)
July 24-25	Tulahoma City Open Championship (36-Holes / 2-Days)
Aug. 21-22	AGC Club Championship (36-Holes / 2-Days)
Aug. 31	AEDC Golf League Ends
Sept. 9	AEDC Golf League Awards Banquet
Sept. 11	Petty Cup Match Play Championship Begins
Sept. 16	Thursday Night Dog Fight Ends
Sept. 18	AGC Member-Member Tournament (18-Holes)
Oct. 9	Season Ending Tournament (4-Person Scramble (18-Holes)
Oct. 17	Petty Cup Match Play Championship Ends

Junior Golf Camps

June 14-18	AGC Junior Golf Academy (Session 1)
July 12-16	AGC Junior Golf Academy (Session 2)

AFIT has funded seats still available

By George Bailey
Acquisition & Logistics Instructor

Air Force Institute of Technology's (AFIT) School of Systems and Logistics (AFIT/LS) offers an excellent opportunity for mid-level managers to learn or refresh on issues and initiatives impacting experienced acquisition and support professionals.

"SYS 400 – Current Topics in Acquisition and Support" offers 30 continuous learning points to senior captains, field grade officers, and civilian equivalents with at least 10 years of experience in acquisition and performing as mid-level managers at Air Force product centers, air logistics centers, test centers, laboratories, or headquarters (from any major command).

It is preferred that everyone attending also have at least a Level II Acquisition Professional Development Program (APDP) certification in any functional field. The course

is open to and applicable to persons from the aircraft, space, information and support communities. Topics vary somewhat to reflect the most recent changes, but also to accommodate the schedules of expert guest speakers. The course enables students to listen to and engage with the experts – there is generally a different speaker or facilitator for each topic presented.

Because of the dynamic environment and busy schedules, Air Force personnel are challenged to keep up with the multitude of policy changes. In a short three-and-a-half day period, this course uncovers many of the ever-challenging topics that impact Air Force Acquisition and Support.

The course is a wonderful opportunity for students to learn from one another as they gather together from different functions, jobs, bases, and backgrounds to share knowledge and experience during roundtable discussions. Students

thus benefit from exposure to the wide range of current topics in the acquisition and support arenas, helping to assess the impacts to their roles and responsibilities as managers.

This class is centrally funded for approved military and civilian DOD employees. AFIT/LS will pay your travel and per diem to come to the Wright Patterson AFB, Ohio area for class. AFIT will arrange student billeting and bus transportation daily to and from class (rental cars, if desired, would be unit funded). More information on this and more than 80 other AFIT acquisition, logistics, engineering, management, and software classes (both on-line and live) can be found at <http://www.afit.edu/ls/index.cfm>

For more information, contact Susan Jones, DSN 785-7777 ext. 3288 or to register for a seat in SYS 400, visit *AFITNow* at <https://www.atrrs.army.mil/channels/acqnowcl/registrar/>.



Lala Harris awarded for idea

Jeff Foster, manager of ATA Commodity Management, presents Lala Harris with a check for submitting an idea/commitment to the ATA Energy Conservation idea program. Harris' idea was to take action to review power usage in administrative buildings to determine buildings with higher usage and determining reason for high usage of power. For example Harris said, in several buildings the HVAC systems are older units that need repair or replacement. Older units tend to be harder to regulate, and therefore individuals are running fans in the winter (too hot) or heaters in the summer (too cold) which can be a waste of energy. (Photo by Rick Goodfriend)

Tunnel 9 from page 1

if Tunnel 9, which uniquely provides the test environment necessary for understanding these complex challenges, could be utilized in a new and innovative way.

In the year preceding the completion of the control room, engineers readied experiments, methods and instruments to make measurements that can interrogate more fully the physics-based phenomenon required.

“Late last year, a proposal was made to replace the standard sphere cone check model with an actual system configuration representing the most likely Air Force solution to the next generation prompt global strike missile system, HTV-2,” Marren said.

The Falcon program is a joint venture by the Defense Advanced Research Projects Agency (DARPA) and the Air Force. The program’s objectives are to develop and demonstrate hypersonic technologies that will enable prompt global reach missions. The first flight test is currently scheduled to fly from Vandenberg AFB, Calif., to Kwajalein Atoll, Marshall Islands, later this year.

Marren says this vehicle because of its complex 3-D shape also challenges the understanding of certain

critical physics-based phenomenon and fits the return to service goals. Since AEDC’s Tunnel 9 provided the pre-flight database, that data can be used as a benchmark for validation of the wind tunnel.

“Having a well characterized data set in Tunnel 9 made it the perfect configuration to tell if all systems were a go,” Marren said. “In addition, this next generation vehicle will require more physics-based design information to get through development and Tunnel 9 must be ready for that enhanced requirement.”

Moving from just supplanting air-on test time for the purpose of building an empirically-based data set to a new approach that seeks to understand the physics driving the most severe design challenges requires the capability to go beyond the standard data approach and perhaps move out of a comfort zone in customer support.

“Success here will require building partnerships with science and technology activities, inventing test techniques and methods tuned to obtaining important hard-to-measure quantities and providing data in a format that feeds the weaknesses in our computational models,” Marren said.

The initial quick-look

data suggests that all the various technology efforts are producing 100 percent successful results.

“I am amazed at the level of success that has been achieved simultaneously for so many different technologies ‘piggy-backed’ together,” John Lafferty, Tunnel 9’s technical director, said. “This level of success is a testament to the quality of our people and the rigorous planning involved.”

According to Marren, this was an opportunity to try this new approach by reaching out to Tunnel 9 partners with the help of the University of Maryland, Air Force Office of Scientific Research, Air Force Research Laboratory, Test Evaluation/Science & Technology, NASA and Sandia National Laboratories.

The result is enhanced measurement techniques typically seen only in a laboratory environment now applied in a T&E facility to a real-world problem that is milestone driven (in this case by a flight test).

According to Dr. Mark Lewis, chair of the Aerospace Engineering Department at the University of Maryland and former Chief

Scientist of the Air Force, “The hard work in renovating the critical national asset that is Tunnel 9 has clearly paid off on its very first set of runs.

“Preliminary results from the early stages of the project are eye-watering, providing marvelous agreement to some of our theoretical models. AEDC has outdone itself in le-

veraging a shakedown test series to perform no fewer than eight significant experiments at once. I am particularly excited by the fact that our students have been right there in the process, working side by side with AEDC personnel. That is an incredible educational opportunity for those students, but I have also observed that their presence at Tunnel

9 has added an extra spark of vitality for the AEDC staff members as well.”

When return to service checks are completed later this month, Tunnel 9 will have an enhanced information capability matched with an accurate and capable controller to once again rise to meet the testing needs of advanced hypersonic systems.

AFMC from page 1

there are on the far end of the supply and distribution route, and so their needs are amplified by distance and time.”

Adding to General Hoffman’s commitment to deliver materiel when or before it’s needed, were both the people in uniform and deployed civilians. He said more civilians can be used in deployed locations, especially those with contracting expertise.

“Every stop we made, the base operating support people were fired up,” he said. “They clearly can see the impact they’re having on the mission. All of us on the team were proud to see motivated Americans enduring risk and sacrifice in supporting our nation’s objectives.”

The AFMC director of logistics and the commanders of AFMC’s three air logistics centers accompanied the general on the trip, which included visits to four sites in the U.S. Central Command’s Area of Responsibility. All of the team members identified issues they want to work, General Hoffman said.

The general returned from the trip with taskings for his AFMC team.

For example, at the Transit Center at Manas, Kyrgyzstan, General Hoffman learned that Airmen could not count on the gear in their chemical-protection bags to have enough remaining service life to match their deployment timing.

“Many items have a shelf life and a service life. If we send items that will expire soon, we are putting a burden on the other end to sort them, ship expired items back, and so forth. We don’t need three transportation legs to accomplish what one should do. If there’s a burden to be had, AFMC should bear that burden,” he said.

Also at Manas, he observed delivery of scores of M-ATVs, or Mine Resistant, Ambush Protected All-Terrain Vehicles. Components for the vehicle, such as the gun turret, are shipped singly on pallets, then assembled and installed on the vehicle at the forward operating bases.

“Why not double stack the accessories and save one pallet space for every two M-ATVs?” General Hoffman asked. “Within this command, we have a Global Logistics Support Center unit right here at Wright-Patterson, which has packaging and shipment experts who look at things like that,” he said.

A third example of the taskings General Hoffman will track is the opportunity to allow options for de-icing fluid used on aircraft in frigid environments.

“They go through a lot of it,” he said. “It often comes in by air in drums all the way from the United States. That’s a huge air expense. But a second type of de-icer is available regionally. It has different properties but could be used if allowed by aircraft maintenance technical orders; so we need to look at that, and see if it is an acceptable engineering solution which would save us a lot in transportation costs.”

The general’s team also made stops in Belgium and Greece where the Air Force has contracted for maintenance or upgrades to Air Force aircraft. A stop in Israel afforded a meeting with General Hoffman’s counterpart in the Israeli Air Force. The focus of the trip, however, was on identifying opportunities to do things better.

“People could ask why do four stars go traipsing around the theater,” General Hoffman said. “People are fighting a war there and they don’t need to be running a visitors bureau. So there must be a good reason why we go there.”

There is, said the general, adding that his intention is not to be a four-star action officer for every issue.

“We always find something that leads somebody on the team to say, ‘Holy cow, why can’t we do business better?’ I like to bring those things back as examples of how we can be thinking as a command, and be more responsive to our deployed warfighters,” he said