



HIGH MACH

Serving the World's Premier Flight Simulation Test Center



Vol. 58, No. 23

Arnold AFB, Tenn.

December 2, 2011

AEDC-tested Dreamliner makes first passenger flight

Center played role in development and performance testing for Boeing aircraft engine

By Philip Lorenz III
Aerospace Testing Alliance

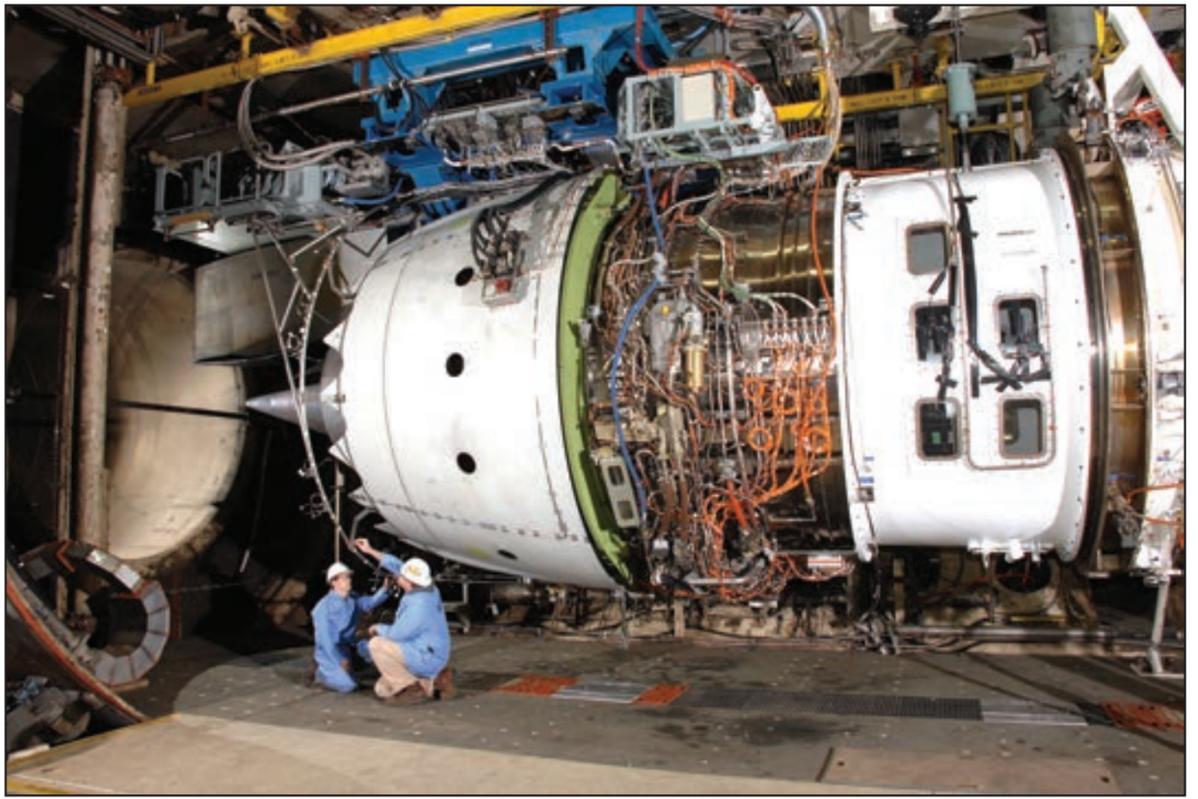
News of the Boeing 787 Dreamliner's first commercial flight recently caught the attention of a lot of people, including AEDC's Doug Hodges.

In 2007, Hodges was one of the engineers working with a team to conduct ground testing on the Trent 1000, the engine that powered the first passenger flight.

"The Trent 1000 is the most fuel-efficient, cleanest, and quietest large engine Rolls-Royce has developed to date," Hodges said. "AEDC's ability to accurately measure thrust and fuel flow at altitude flight conditions greatly helped Rolls-Royce achieve these improvements."

"The AEDC test was the only altitude

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ATA Test Engineers Danny Haddon and James Cossey inspect the Rolls-Royce Trent 1000 engine in the Aeropropulsion Systems Test Facility at Arnold Engineering Development Center at Arnold Air Force Base, Tenn., prior to testing. (Photo by David Housch)

Parker leaving his mark on AEDC after 38 years

By Shawn Jacobs
Aerospace Testing Alliance

When J.Y. Parker first came to AEDC as a young engineer not long out of Auburn University, he expected to spend a few years getting a master's degree from UTSI and return to Huntsville, Ala., where he previously had worked for Northrop Aircraft Corp. (now Northrop Grumman).

Parker, who brought with him his wife, Susan, got his degree from UTSI within a few years and grew his family by two daughters, Melissa and Jenny. Melissa, mother of his grandson, Tucker, is now a business and employment attorney in McDonough, Ga. Jenny is a preservationist with the National Park Service in Washington, D.C.

Parker is just now leaving AEDC, 38 years later, having worked in many of the business areas and leaving an impression on virtually every aspect of the center. His last day at work is today.

Parker, who has been director of Plans and Programs (XP) since 2005, worked on the contractor side from May of 1973 until January 1981, when he became a government civilian.

"Obviously I've enjoyed what I've done at Arnold – both with the contrac-



Parker



Jack Dewitt and J.Y. Parker with a Range/Track G heat shield model in 1978. (Photo provided)

tor and with the government," Parker said. "It's been a great career. I've been exposed to a lot of things and been given a lot of opportunities. The work we do and the people we work with – all of those things have been very rewarding. I know the center's made contributions to essentially every DOD system that flies. I like to think I've made contributions to

all of the things I've been a part of during my career."

Parker's "contributions" began in G-Range, where he was a project engineer for ARO.

"I first supported work on ablation, and aerodynamics in G-Range," he said. "When we put the track in, I was the project manager on the first erosion test

that we did on the track. I also worked in the chicken gun – some canopy work with the T-37, which was the side-by-side seat trainer – and the F-111 and B-1. My chicken gun work culminated with a program of measuring the impact forces against a steel flat plate."

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Air Force Analysis Branch at AEDC already busy

By Philip Lorenz III
Aerospace Testing Alliance

By late 2010, guidance from AEDC's Technical Excellence Board helped lead to the formation of an Analysis Branch at the world's largest and most advanced complex of flight simulation test facilities.

Dr. Ed Kraft, AEDC chief technologist and the head of the center's Technical Excellence Board, said a combination of factors led to the founding of the new branch.

"Independent evaluations are one of the tenets of current DOD and Air Force acquisition policy changes," he said. "It's what the government in general has recognized; acquisition programs have not had anybody independently evaluating systems, evaluating data, or providing guidance to the Air Force program managers when they get to critical design reviews."

Britt Covington, AEDC executive director, agrees with Dr. Kraft's assessment. "Twenty five years ago, the contrac-

tor and government had a more robust analytical capability," he said. "We, on the government side, acknowledge our analytical capabilities have atrophied. It was time to strengthen that, and that's what this office is about."

AEDC's Air Force Analysis Branch, which was formed approximately a year ago, is already engaged in many areas of testing, evaluation and analysis work on and off base.

AEDC Fellow Dr. Bill Baker, the analysis branch chief, said his staff currently numbers 11, and has the goal of adding as many as three additional personnel.

"It has been probably 30 years since there was an analysis branch within the Air Force at AEDC," he said.

Dr. Baker, who originally came to work at AEDC in 1964, said, "I've been doing analysis for most of my career. I came to work for ARO (Arnold Research Organization) in the Propulsion Wind Tunnel Facility (PWT) where we did all kinds

of testing and analysis, including missile aerodynamics, aircraft aerodynamics and later store separation."

The first challenge facing Dr. Baker was establishing the goals for the new branch.

"I set up four high-level goals," said Dr. Baker, who said he was not necessarily speaking of them in order of priority.

"The first goal was to work with the test complex representatives and their interface with the customers to help understand the big picture of what a particular AEDC test was for – if you see the big picture you might be able to make some recommendations on modifications to a given test," he said. "Our team is in place to help the test team evaluate a test plan before, during, and after project completion."

"A second goal is performing the ground test to flight test correlations."

This is being done to improve the test-

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AEMTC re-elects officers

By Patrick Ary
Aerospace Testing Alliance

The Air Engineering Metal Trades Council (AEMTC) re-elected all its current principal officers to serve another term Nov. 22.

Serving another term in office are AEMTC President Jimmy Dale Nance, Vice President Jay Vandergriff, Recording Secretary Reina Shanks and Secretary Treasurer Annette Painter.

Trustees and grievance committee members were also elected.

Terms in office last for three years. AEMTC represents a bargaining unit of 11 unions, consisting of about 675 employees at AEDC.

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HIGH MACH

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An Air Force Materiel Command Test Center

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The *High Mach* office is located at 100 Kindel Drive, Suite B212, Arnold AFB, Tenn. 37389-2212. Editorial content is edited and prepared by AEDC support contractor ATA. Deadline for copy is Wednesday at close of business the week before publication.

This commercial enterprise newspaper is an allowable ATA contractor publication for personnel at AEDC.

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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

Remaining resilient amid uncertainty

By Col. Bruce Smith
366th Fighter Wing

MOUNTAIN HOME AIR FORCE BASE, Idaho (AFNS) – With the recent announcements from Air Force officials regarding civilian workforce restructuring and continuation of the enlisted date of separation rollback program, there is understandable potential for a feeling of fear about the uncertainty of what the future may hold.

While these changes may not directly impact all of us, not one of us is unaffected by these changes – we are in this together as Airmen, civil servants and wingmen.

We need to focus not on what we don't know, but what we do know. We know that we are the world's finest Air Force because of our personnel, both military and civilian. We know that in order to move forward boldly into an uncertain future, we need to focus on what makes us great and improve upon it -- our people.

"It's important, now more than ever, we contin-

ue to build our strength," said Gen. Norton Schwartz, the Chief of Staff of the Air Force. "Good wingmen stay ready for the mission – physically and emotionally."

It is with this goal in mind we need to stress the importance of resiliency and how the Comprehensive Airman Fitness concept can help all of us stay fit to fight any fight, mental or physical. The recent news and subsequent battle with fear is no less a real fight than being engaged in physical combat.

"Being fit to fight means more than just being physically fit. With all of the demands on our Airmen and their families, psychological and emotional health are just as important to our overall fitness, and to our readiness as a command," said Gen. William Fraser, the former commander of Air Combat Command.

Some might argue the general's words apply only to Airmen.

The general's words ring true for more than just Airmen in ACC. Our Air Force consists of 10 commands filled with military

and civilian personnel who all have one thing in common in spite of rank, age, gender, location or education – they are all humans whose lives are affected by their mental, physical, social and spiritual fitness.

It's almost certain that some will look at the news and proverbial writing on the wall and think there is no hope.

That hope is not gone. As long as there is an Airman willing to uphold his end of the Airman's Creed, no one will be left behind and we will not fail. We need to be good wingmen, especially today, and watch out for our fellow servants, civilian and military alike. We need to be innovative, conscientious, frugal and resilient as we look to the days ahead. The future may seem bleak, but it is our future. What are we going to make of it?

What is certain is that as we forge the way ahead in these uncertain times, we must fight that fear so as not to let it paralyze us, cause us undue stress or even endanger our well-being. We must remain resilient.

The silence of nuclear deterrence is deafening

By Col. Bruce Smith
366th Fighter Wing

F.E. WARREN AIR FORCE BASE, Wyo. (AFNS) – As I complete what I like to call my "first lap" around 20th Air Force, it amazes me to see our Airmen executing what some would call a less than "sexy" mission.

I ask myself how many mission sets in our Air Force ask us to never fly a sortie, maintain a 24-hour constant state of readiness and do it from a subterranean environment, which could be called out of sight, out of mind?

As a former cold warrior, I find it amazing that as the Soviet Union slowly shut down their military, the one thing they chose to keep healthy and fully maintained was its intercontinental ballistic missile or rocket forces, the thought being it was the foundation for recover.

Roll the clock forward to today and 9,600 U.S. Airmen of 20th Air Force continue to maintain 450 ICBMs in a constant ready state as our nation's only continuous alert force.

It is a daily part of our U.S. Strategic Command commander's task force and one can argue the one mission set that every combatant command takes to work each day.

In fact, our warriors literally switch their 20th Air Force patches to Task

Force 214 patches daily as they transition to the missile field for alert and to fulfill COCOM responsibilities.

As I like to remind our Airmen, our national leaders take them and their mission around the world every day to assure enemies and allies that we are serious about our commitment to deterrence and proliferation control.

Our subterranean warriors with names like "Chef" (the key to morale most would say), "Facility Manager" (fixing and keep everything running in the living complex), "Cop," "Missileer" or "Maintainer" work near towns like Max, N.D., or Gurley, Neb. (A far cry from Bagram, Fallujah or Camp Leatherneck ... but more closely connected than we all know.)

They provide deterrence and the foundation for the global maneuver necessary to execute our nation's intent and direction.

I think it is time we celebrate the 50-plus years of positive contributions. Remember, this mission is not sexy, there are no campaign ribbons, and there aren't cheering crowds that greet us after being deployed to the field.

As a civilian told me in the airport one day, "I thought all those missiles have been gone for some time." Quietly and humbly I responded, "This is America's ICBM force ... elite Airmen!"

Action Line

Team AEDC

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

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

Col. Michael Brewer
AEDC Commander

Q: My concern is the closing of the boat ramp at the Gossick Leadership Center recreational beach. It appears to me that you could leave the road going down to the ramp open and the fishermen can still access and use it. I have used this boat ramp for years; I like the security and it's more convenient. I see no reason that it couldn't be left open.

What does concern me is you just got through fixing the dock there as it was about to sink. I went there recently and noticed the nice new aluminum walk-out ramp so I thought we were getting ready to get a new ramp. I understand this ramp went down behind the Officers Club at a cost of \$23,000.

I've also read that you are fixing to tear down 22 housing complexes and rebuild them and I have to admit that this is a nice project, but couldn't they have been remodeled?

I also understand or have heard that there is an Olympic-size swimming pool fixing to go in. I've also heard that there were two golf tee boxes put in at the golf course at a cost of \$12,500 each.

If the Air Force can afford to do this, why can't we leave this boat ramp open? You can use that same road, make it a turnaround, and if someone parks illegally they could be fined a hefty fine. It won't take long for them to catch on. Thank you very much for your time.

A: As the defense budget continues to shrink, how we operate at AEDC must change as well.

Change is never easy or popular especially when it involves decisions such as the one to close the GLC Recreational Area. However, we must apply our thinning resources to maintaining our core testing mission.

On average, we spend over \$110,000 annually to open and maintain the GLC area. High maintenance costs for a crumbling infrastructure, coupled with increased vandalism and destruction of property were major factors in the determination to close the GLC Recreational Area.

In fact, the repairs made on the GLC boat ramp were needed due to vandalism (bullet holes in four floats).

Vandalism also caused over \$2,000 dollars worth of damage to the lifeguard storage building. We simply cannot afford the upkeep and security required for this area.

In regard to your other concerns, specifically, the Arnold Lakeside Center boat dock, housing and the golf course – each one of these was funded from outside government sources.

Command Quality of Life (QoL) dollars were received to replace the boat dock behind the Arnold Lakeside Center. QoL is earmarked for one-time projects for which local funding is not available.

The 22 complexes that you mentioned are part of the Military Housing Privatization program. Not unique to Arnold, the initiative began in the mid 1990s when Congress recognized that military family housing was in need of renovations and that military funding could not cover the costs.

Instead of budgeting billions for new houses, this initiative shifts construction, operations and maintenance responsibilities to the private sector. Some of the benefits of privatized housing include community benefits such as playgrounds, community centers and swimming pools. These benefits are negotiated and the final package is installation-specific.

Improvements made at the golf course were accomplished with non-appropriated funds (NAF) generated through usage of Services facilities and commissary dividends.

All projects are approved by an oversight council and were executed to extend the life and playability of the course.

AEDC continues to partner with local communities for opportunities to enjoy Woods Reservoir. We hope that you will utilize the other access points that are open to the public.

There are four other public boat launches on the lake to include the Hap Arnold launch, only 1.5 miles from the GLC.

Smoking Policy

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

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

- 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.

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ing accomplished in the wind tunnels, test cells and space chambers at AEDC. He gave an example of such a correlation, using the store separation work done previously on the F-22 Raptor as a part of the MASTER (Modeling and Simulation Test and Evaluation Resource) program.

“Scott Keen (ATA) was the lead on the F-22 store separation part of MASTER and we managed to match every one of their flight tests points with our computations, with the analysis that we had done,” Dr. Baker said. “Dr. Don Malloy was the lead for the propulsion part of the MASTER program. Ground test to flight test correlation is something that is very important to AEDC to ensure that the data we are generating will correctly represent the real world that would be expected in flight test.”

“Correlation with flight test data is going to be a key task that we’re doing – something that our group will be concentrating on.”

MASTER was a multi-year collaborative Test Investment Planning and Programming (TIPP) program between Air Force Flight Test Center, Edwards AFB, Calif., and AEDC.

Dr. Baker spoke about two goals that make up a proactive approach to test and evaluation, from concept to fielding new weapons systems.

“The third goal is doing online data analysis for some of the tests, in real time,” he said. “It is important to look at the test data as it is being taken in the test

“If we’re going to be a development center as opposed to a test center, this analysis and evaluation office and other work that we do here is part and parcel to developing weapons.”

– Britt Covington,
AEDC executive director

cell to get a good representation of the performance of the article being tested so we can ensure high quality data. Also if anomalies in the test data are detected, then the test can be influenced to determine the source of the anomalies.

“For the fourth goal, we’ll be working with ATA to help put together Integrated Test and Evaluation-type proposals. There are some tremendous analysts who are in ATA and what we’d like to do is to provide our expertise to our customers through as much analysis support as we possibly can provide to them. We’ve had a very successful time over the years with doing that. We want to raise awareness of what AEDC has to offer and encourage the customer, the Air Force and those under contract to them to make full use of that expertise.”

Dr. Baker said another challenge of establishing the branch was finding the right people to carry out the mission.

“When I came on board in the middle of September (2010), I started looking for my senior leaders,” said Dr. Baker, who felt fortunate to find two people

already at AEDC. “I was able to hire Dr. Milt Davis (another AEDC Fellow) for my Aeropropulsion lead and Dr. Don Malloy as my Flight Systems lead.”

Dr. Baker, who is the acting lead for the Space and Missiles part of the branch, said finding the expertise to staff the Space and Missiles lead position was particularly challenging.

“The sensor world is kind of a whole different animal and I looked around all over the country, from the Missile Defense Agency to the laboratories and I just wasn’t able to come up with someone who had the unique capabilities we need,” he recalled.

This position is still open and will be filled at a later date.

Dr. Baker said despite AEDC’s strong reputation for its high caliber of past analysis work, there must be a continual effort to re-establish that reputation.

“A continuing challenge will be marketing AEDC’s analysis capabilities, especially during the ongoing financial constraints in an uncertain global economy,” he said. “We will constantly be talking to people and telling them what our capabilities are and what we can do. That’s

something that you have to re-establish continually because you can have a great reputation with one program office or one program. Then the next program comes along and those contacts have all disbanded, they’ve gone into other programs, so you’ve got to be reminding them, ‘hey, look what AEDC did for you last time.’”

He added, “If you can do that, then you can keep a good strong analysis program going, but you have to go down to Eglin AFB or out to Edwards AFB, go up to Wright Field and talk to them on a regular basis.”

Dr. Baker said AEDC’s Analysis Branch is already busily and constructively engaged on multiple fronts and acknowledges a lot remains to be done to bring it up to its full potential.

“We’re a young branch” he said. “We’ve got some highly experienced people as leaders, and we are developing our young analysts as we go. In some of the analysis that we’re doing, we’re in a learning mode and in others we already have the experience and are making significant contributions.”

Covington is looking forward to what the Air Force Analysis Branch will achieve in the long term. He wants Arnold to be recognized for all that it has to offer the user.

“Most of the people think of AEDC as a large industrial complex, whose capabilities revolve around our test infrastructure and facilities,” he said. “Yes, that’s part of what AEDC is about. But I think our intellectual capital

brings as much to the table, if not more, than the big iron we have around here.

“If we’re going to be a development center as opposed to a test center, this analysis and evaluation office and other work that we do here is part and parcel to developing weapons. I’ve worked in several system program offices, aircraft and other systems as well. They don’t have all the engineers they need to develop systems and certainly not all the variety of engineers needed. They rely on other offices to support and help the particular weapons systems they organically support.”

He said AEDC is fortunate to have ground test professionals on both the government side and ATA to support ground test evaluation and analysis. Covington said it is not a duplication of effort but a confidence multiplier for the customer.

He also sees value for the officers who will become part of the analysis branch, even for a single tour of duty.

“The types of things that they’re learning can certainly be exported throughout the Air Force should they choose to leave middle Tennessee and go to work at Wright-Patterson or Tinker AFB or Hill AFB or any other place,” he said. “This is a great proving ground and incubator for the intellectual capital we have here. But it’ll allow folks who have been here, who understand what we do and how important it is to the acquisition system or process, to get out and spread the word.”

Technical Excellence Poster winners



On Nov. 17, Dustin Crider (far left), ATA’s space and missiles test and evaluation technology project manager, presented plaques to David Schwer, Antonina York and Chris Davis, the top three winners of the recent Technical Excellence Poster Session held at AEDC. (Photo by Rick Goodfriend)

AEDC employees serving as angels

All Angel Tree “adoptions” already taken

By Shawn Jacobs
Aerospace Testing Alliance

Disadvantaged mid-state children will once again benefit from the generosity of AEDC employees this holiday season.

The AEDC Angel Tree contains the names of 164 children, all of whom have already been “adopted” by AEDC employees. Janet Feller, a programmer analyst in the wind tunnels and member of the ATA Employee and Community Activity Committee (E&CAC), is coordinating the Angel Tree program this year. Dec. 9 is the deadline to turn in the gifts.

Feller said she is very pleased with the base-wide response to the program.

“There are approximately 120 AEDC team members participating,” she said. “Several employees chose more than one child, and I think that there is one group that

participates but only one person signs the sponsor sheet.”

The list contains some of the items the children want or need, but age-appropriate gifts and warm clothes are always welcome. The children range from newborns to age 17.

Feller said the children are from the Healthy Families Program and the South Central Relative Caregiver Program. The Angel Tree gifts may be the only ones some of the children will receive this Christmas.

Feller said she is thankful for the generosity of her AEDC co-workers.

“I get real excited when I see all the gifts that are brought in,” she said. “We have a very giving community here on base, and I am privileged to be part of that and to get to see it. I think that’s really neat.”

The Healthy Families Program serves Bedford, Coffee, Franklin, Lincoln, Marshall, Maury, Moore and Rutherford counties. Healthy Families/Healthy Start helps first-time parents adjust to their new and demanding role, providing

skills necessary to reduce family stress and improve family function. Educational services promote parent/child attachment, child development and follow-up for child wellness and immunizations. Healthy Families is an intensive home visitation program.

The South Central Relative Caregiver Program serves Bedford, Coffee, Giles, Hickman, Lawrence, Lewis, Lincoln, Marshall, Maury, Moore, Perry and Wayne counties. The program provides support services to relative caregivers and their related minor children in order to divert children from state custody. The supportive services do not include any monetary stipends to families but instead offer case management, support groups, educational workshops, enrichment activities, material assistance and a comprehensive system of information and referral designed to stabilize the family.

For more information about the AEDC Angel Tree program or to drop off gifts, call Janet Feller at 454-5108 or Patricia Winters at 454-5753.

AFMC wins Marathon MAJCOM Challenge

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Air Force Materiel Command was announced the winner of the 2011 Air Force Marathon MAJCOM Challenge in early November at CORONA Fall.

This was the fifth year for the challenge, which uses a point system to evaluate both participation and performance from each major command.

Air Force Chief of Staff Gen. Norton Schwartz presented the coveted trophy to Gen. Donald Hoffman, AFMC commander, in front of a crowd of the Air Force’s senior leadership at the U.S. Air Force Academy in Colorado Springs, Colo., on Nov. 4, 2011. The presentation has become a staple of the annual conference.

This is the second time AFMC has won the award, having previously finished on top in 2008.

The MAJCOM Challenge serves as a service-wide friendly

competition that challenges each major command to encourage its Airmen to stay “Fit to Fight.” The challenge is open to active-duty and activated Guard and Reserve service members.

“This is just another fun way that we can help all our Airmen stay healthy,” said Molly Loudon, Air Force Marathon director. “It also gives the winning MAJCOM something to brag about for an entire year.”

The 2011 Marathon sold out earlier than ever and grew to a record-setting 13,000 runner field. Race officials expect an even bigger turnout for 2012.

“Registration will open on Jan. 1, 2012, and based on last year, I would recommend people register as early as possible,” Loudon said.

The 16th annual Air Force Marathon is scheduled for Sept. 15, 2012. For more information about the Air Force Marathon and the surrounding events, visit www.usafmarathon.com.

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test of the Trent 1000 engine. We met a very demanding schedule to keep the overall Trent 1000 development program on schedule. It’s exciting to be a part of this milestone in aviation history.”

Earlier, AEDC had tested the Rolls-Royce Trent 1000 high-bypass turbofan engine powering the company’s first new jetliner to debut in almost 15 years.

“We did development, performance and icing testing [on the Trent 1000],” Hodges said. “It’s exciting, that was a critical test that they had to pass to obtain their FAA [Federal Aviation Administration] certification, especially the icing [testing]. I’m proud to have been a part of that.”

The mid-size airliner’s first passenger-carrying outing was an All Nippon Airways flight that flew 240 passengers on a four and a half hour charter flight from Tokyo to Hong Kong.

Two hour-long “domestic excursion flights” out of Tokyo took place before regular domestic flights commenced Nov. 1.

PARKER from page 1

Parker next became a systems engineer in the Space Chambers, where he designed the space environment to test infrared sensors.

That experience led to the opportunity to work for the Air Force, which was looking for somebody who had expertise in that type of testing.

Parker got the job to run the original AEDC Space Test Branch, where he managed the Anti-satellite weapon (ASAT), Global Positioning Satellite (GPS), Titan payload fairing and numerous other tests.

Next, Parker was assigned as the program director for Test Facility Acquisitions, where he promoted AEDC as the site for the DECADE facility, converted the 10V chamber from space propulsion to sensor testing, added the independent drive system to 4T and managed the Base Realignment and Closure (BRAC) relocation of SL-2, SL-3, T-11 and T-12.

For his next assignment, Parker was detailed to the AF headquarters and Department of Defense (DOD) to work on the National Wind Tunnel Complex (NWTC).

"That was a joint NASA/DOD/industry team, and that took three years out of my life, basically traveling. I averaged about 240 days of TDY (temporary duty) a year for three years supporting that program."

Upon his return to AEDC full-time, Parker became the base civil engineer for a few months and then moved to the Test Business Management Office in late 1996. There he began developing the test side of the Program Objective Memorandum (POM), forecasting and defending AEDC's needs for budget in future years and running the business programming shop for anything that was done in the Test Directorate.

"I did that from '96 to '01, when I was selected to run the Investments Division," Parker said. "I kind of went back to what I was doing before NWTC, but at a higher grade and probably more programs at one time."

Some of the projects begun during his time in Investments included the Propulsion Consolidation Streamline (PC&S), the

H-3 Arc Heater and the Propulsion Wind Tunnel (PWT) Sustainment, which included the new starting system, control room and another dryer in PWT.

Modifications to the Aerodynamic and Propulsion Test Unit (APTU) were started during that time, along with a number of upgrades to the Sea Level Cells. Test cells J-1 and J-2 were also modified.

Much of Parker's tenure at AEDC has dealt with acquisition, which he defined as "acquiring new test capability" and "the reconfiguration of what we have, adding new environments or rebuilding/improving the things that we already have."

"If you're going to operate in the future, then you're going to constantly modify. It's keeping things in a state where we can support today's and tomorrow's weapons systems with what we have."

Since becoming director of Plans and Programs, part of Parker's responsibility has been helping the commander frame and sell the value of AEDC to weapons system development.

"It's making sure that Arnold's future is looked at as we program money through the bureaucracy that is the Planning, Programming, Budgeting and Execution System (PPBES) of DOD," he said. "We have to define today and what we'll need for the next six years of work. We've got to put a face on today if we want to have anything coming in '14 and beyond, and so we build that with the help of everybody at the center."

Parker said another part of Plans and Programs involves intelligence and keeping track of developments in foreign technology.

"We've had a lot of smart engineers come through Arnold," he said. "Their ability to look at things and deduce what it will be used for helps the intelligence community put a face on what other countries are doing. It also gives AEDC insight into things that we need to be thinking about."

ATA Deputy General Manager Phil Stich said Parker has contributed to many successes across the AEDC mission during his career.

"I have had the pleasure of working with Jim on a



J.Y. Parker, Frank Jackson and J.C. Murphy at the ground breaking for the 4T independent drive system (IDS). (Photo provided)

couple of major projects, the 4T independent drive system and the National Wind Tunnel Complex, and he has always represented AEDC very well," Stich said. "On the development of the National Wind Tunnel Complex, Jim spent at least two years on the road as AEDC's lead, with (almost) no complaints. He has been a great guy to work with and I am certain that he will enjoy his retirement."

Throughout his career, much of Parker's job has dealt with planning for AEDC's future, which he is optimistic about, despite a struggling economy and looming budget cuts.

"I'm optimistic," he said. "I'm also realistic. I read the paper; I also have insight into things that you don't see in the paper. Things are going to have to be different, but we've got the right people in place to lead and guide that change. The center will continue to provide services to the acquisition system in the future. There's no doubt in my mind about that."

Parker's personal plans beyond retirement haven't been finalized beyond immersing himself in his hobbies and family activities.

"I have no professional plans after retirement, but I do plan on playing more golf," Parker said. "I built a woodshop a number of



J.Y. Parker, AEDC director of Plans and Programs, enjoys working in his woodshop with his grandson, Tucker. (Photo provided)

years ago and I really enjoy doing woodwork. I like to make furniture, either period reproductions or of my own design."

Parker said he hopes to get back into genealogy research, which he put a hold on in the late 1990s. He also wants to spend more time with his 7-year-old grandson, who enjoys golf, baseball and working in the woodshop.

"There are a lot of challenges in AEDC's future,"

he said. "Colonel Brewer constantly reminds me, 'You're going to miss the fight.' Maybe, but probably not."

"I'm ready to not wake up at night thinking about things that I ought to be doing. It just feels right."

There's a good team left to pick up, and that's fine."

Tulahoma streets closing tonight for annual parade

Tulahoma police will close several streets tonight for the Tulahoma Chamber of Commerce 55th Annual Christmas Parade.

Beginning at 5 p.m., the Tulahoma Police Department will close Jackson Street to northbound traffic at Carroll Street as the parade entries line up. Volney, Decherd, Warren, and Lauderdale Streets will also close at Jackson at 5:00.

At approximately 6:15 p.m., Jackson Street will be closed at Lincoln and Wilson Streets, and all streets in between (Grundy, Moore, Grizzard, Ho-

gan, Blackwell, Catron, and Ogee).

At 6:30 Jackson Street will be closed at Big Springs Avenue and Jack Farrar Lane.

Jackson Street will remain closed until the parade's conclusion at approximately 9 p.m.

To prevent congestion, no vehicles other than parade entries will be allowed onto South Jackson at the Civic Center after 5 p.m.

Police say motorists can avoid traffic congestion immediately prior to and during the parade hours by taking either Cedar Lane or Washington Streets.

LEGO® League

At right, South Middle School student Jacob Luthi watches as his FIRST® LEGO® League team's robot performs its tasks at the competition Nov. 19 at East Middle School. Several AEDC and ATA employees participated in the event, including ATA Deputy General Manager Phil Stich, below, who emceed the event. (Photos by Andrea Stephens)



Air Force leaders collaborate on total force future

By Col. Bob Thompson
Air Force Reserve Public Affairs

WASHINGTON (AFNS) – Air Force senior leaders are looking at ways to balance the ratio of regular and reserve component Airmen to create the most effective and efficient combat capability in austere budget times.

Secretary of the Air Force Michael Donley is leading collaborative efforts between active, Reserve and Guard leaders to find the right force composition that will ensure the total force remains healthy and viable.

“Finding the right balance of

regular, Reserve and Guard forces is the key to maintaining future Air Force capabilities during dramatic period of budget austerity,” said Air Force Chief of Staff Norton Schwartz.

Of the forces serving on active duty today in the combat air forces, 58 percent are active-duty Airmen and 42 percent are from the reserve component - made up of Air Force Reserve and Air National Guard - according to Donley in a speech to the Air Force Association in September.

The total force leaders are working together closely to determine the right mix for the active

and reserve components which is economical, sustainable and meets the nation's and combatant commanders' requirements.

“One of our biggest lessons learned is that we do have access to reserve component Airmen on short notice,” Schwartz said. “They have stepped up to the plate every time we've called to perform both daily operations, as well as strategic surges.”

Another key link to maintaining the right mix of regular and reserve component Airmen is to make it easier to move in and out of active-duty status so our Airmen can serve our country, retain

successful careers and still save taxpayers' money, Schwartz said.

“Our Reserve and Guard programs are exceptionally efficient and cost-effective,” he said. “Twenty years of combat have taught us that we rely on Reserve Airmen to answer the call of service when our nation needs them.”

At a recent meeting at Bolling Air Force Base, Md., Donley conferred with Schwartz as well as Undersecretary of the Air Force Erin Conaton, Assistant Secretary of the Air Force for Manpower and Reserve Affairs Daniel Ginsberg, Air Force Vice

Chief of Staff Gen. Phillip M. Breedlove, Gen. Craig R. McKinley Jr., the chief of the National Guard Bureau; Lt. Gen. Charles E. Stenner Jr., the chief of the Air Force Reserve; and Lt. Gen. Harry M. Wyatt III, the director of the Air National Guard.

“We need to capitalize on the incredible synergy we gain from reserve and regular Air Force Airmen working as one team,” Schwartz said. “With the proper balance, I know we can create the strategic depth and an immediate-response force that is efficient, effective and has a combat capability second to none.”

CSAF: Despite budget challenges, Air Force will remain superb

By Senior Airman David Carbajal
451st Air Expeditionary Wing Public Affairs

KANDAHAR AIRFIELD, Afghanistan – The Air Force's senior-ranking officer visited Kandahar Airfield, Afghanistan, Nov. 16-17 to meet with Airmen serving here.

Air Force Chief of Staff Gen. Norton Schwartz met with fellow Airmen in their work centers and also discussed a variety of service-wide issues at an "all call."

The general began his remarks by challenging the Airmen assigned to Kandahar and the 451st Air Expeditionary Wing to continue striving for both individual and team excellence.

"This is a wing unlike any other wing in our Air Force," General Schwartz said. "There is not a composite organization like this on the planet. The reason it goes so well is because, yes, we have individual excellence, but collectively, we dominate in a way that nobody else does."

"That's the beauty of it," he said. "It doesn't matter if we're active duty or Reserve or National Guard or civilian or contractor ...

we rock and roll together." The general went on to talk about the budgetary challenges the Air Force will endure through the next several years.

"The Air Force is going to get smaller," he said. "We'll have fewer airplanes, probably fewer wings, probably fewer squadrons. But whatever size we end up, we are still going to be a superb Air Force."

Then General Schwartz gave the Airmen a preview of Air Expeditionary Force Next, which, if approved, will replace the AEF bucket-cycle theory currently in use.

"The solution is to team three wings instead of 50 wings and to not take an entire squadron," he said. "We think this will work well. It will allow us to deploy in more 'unit-type' style with home station supervision."

From there, General Schwartz encouraged Airmen to ask questions and voice their concerns. One Airman asked the general, "Do you foresee a continuing consolidation effort



Air Force Chief of Staff Gen. Norton Schwartz speaks to Air Force members at Kandahar Airfield, Afghanistan, Nov. 16. During his visit, General Schwartz spoke to Airmen throughout the 451st Air Expeditionary Wing. (U.S. Air Force photo/Senior Airman Corey Hook)

with finance, enterprise service desk and personnel and, if so, do you have some concerns in these areas?"

"In order to save both dollars and manpower, we will continue to consolidate where it makes sense," Schwartz answered. "The concern I have is that con-

solidation has put a lot of pressure at the squadron level. We've taken a lot of the support out of the squadrons, so now people have to do things online – some of which works pretty well, but it still puts pressure on the folks in the squadrons to do all the 'back of the house' stuff on

top of the mission."

To wrap up the all call, the general posed a challenge in the form of a question to the Airmen.

"If you don't like your physician, you can probably find another doctor back home," he said. "If the American people lose their trust in their Air

Force, where do they go? What's the substitute? The reality is, there isn't one.

"This is not the easiest lifestyle," General Schwartz said. "So, I thank you sincerely for your willingness to serve and the willingness of your families to be in this as well."

AFMC Force Development Newsletter now available in online format

By Mandy Smith-Nethercott
AFMC Manpower, Personnel and Services

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – The Air Force Materiel Command Force Development Newsletter is now available online for Air Force military and civilian members seeking to learn about a variety of

career development programs and training offered Air Force-wide.

Each month the newsletter highlights different force development topics such as the Acquisition Professional Development Program, Employee Train-

ing Management System, My Development Plan and much more.

The November issue features a story on the



free learning resources located on the Supervisor Resource Center, a new class for those interested in becoming a su-

pervisor, ETMS SF182 usage and a new Air Force 101 course.

The newsletter, published on the first of every month, can be accessed via the Air Force Portal under the section on the main page entitled 'Featured Links.'

Within that section,

click on the link 'Publications & News' to find the force development newsletter.

Those interested can also subscribe to receive a copy of the newsletter monthly by e-mailing the request to forcedevelopmentnewsletter@wpafb.af.mil.

Museum's virtual tour expanded to include Southeast Asia War Gallery

By Bryan D. Carnes
National Museum of the Air Force

DAYTON, Ohio (AFNS) – Experience the Southeast Asia War Gallery online on the National Museum of the U.S. Air Force's Virtual Tour, just in time for the 50th anniversary of the first U.S. Air Force campaign during that war.

The gallery is now fully embedded with audio and video hotspots and touchscreen devices located throughout the gallery.

Located at www.nmusaf-virtualtour.com, the Southeast Asia War Gallery is now interactive with initial materials available on more than 150 hotspots allowing users to click on an artifact or exhibit and access factsheets, audio-tour podcasts with printable transcripts, videos and an interactive touch-screen display.

"The Air Force's role

during the Southeast Asia War is not widely understood," said Jeff Duford, the museum curator. "When complete, this gallery will present our visitors with the rich, multi-faceted story of Air Force service and sacrifice during that long conflict."

Like the gallery at the museum, the Virtual Tour features more than 25 aircraft that participated in the Southeast Asia War, including search and rescue helicopters and Soviet-made MiGs. The space is full of stories of heroic groups such as the River Rats, forward air controllers and Wild Weasels. Other exhibits range from Medal of Honor recipient Airman 1st Class William H. Pitsenbarger to legendary fighter ace Brig. Gen. Robin Olds. The story

is explained in 12 major chapters, including themes such as Operation Rolling Thunder, the Tet Offensive, Operation Linebacker and many more.

Museum staff members began renovating the Southeast Asia War Gallery in the fall of 2010 and the renovation will be completed in four phases.

"The renovation of the Southeast Asia War Gallery is a massive, multi-year undertaking by the museum's staff," Duford said. "It includes many new engaging exhibits, dioramas, interactives, aircraft restorations, and hundreds of artifacts."

The museum's Virtual Tour consists of 92 high-definition panoramic nodes. All of the nodes are available online, but not all areas are interactive. In addition to the Southeast Asia War Gallery, visitors can experience



Pictured here is a screenshot of the Wild Weasels exhibit in the Southeast Asia War Gallery from the National Museum of the U.S. Air Force's Virtual Tour website. (U.S. Air Force image)

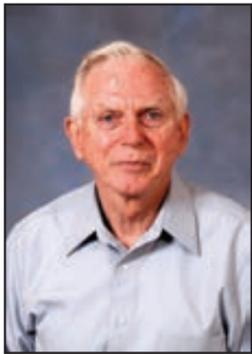
the Early Years, World War II, Korean War, Presidential and Research & Development Galleries, the Holocaust Exhibit and Memorial and Air Parks. In the coming months, museum officials plan to complete the Cold

War Gallery.

The museum offers online visitors various ways to experience the tour, whether it is downloading podcasts from iTunes or accessing the tour through handheld devices or other

mobile technologies. Each node eventually will contain clickable images to the aircraft and artifacts, which will be hyperlinked to factsheets, supplemental information and educational materials.

Milestones — Free Falling



Robert Rogers
55 years



Martha Simmons
35 years

50 YEARS

Larry Phillips, ATA

30 YEARS

Farris Anderson, ATA
Jimmy Hill, ATA
Alice Ford, ATA

25 YEARS

Gregg Beitel, ATA
Debbie Breeden, ATA
Kimberly Mead, ATA
Glenda Perry, ATA
Kent Kingery, ATA
Richard Gunn, ATA
Jerry Bean, ATA

20 YEARS

Rocco Simeri Jr, ATA
Suzanne Moore, ATA
Karl Smartt, ATA
Richard House, ATA

15 YEARS

Daryl Osteen, ATA
Michael Gold, ATA
Vickie Seaton, ATA

Jere Gifford, ATA

Edward Broxson III, ATA

5 YEARS

Joshua Diller, ATA
Shannon Tant, ATA

OUTBOUND MILITARY

Master Sgt. John McDowell
Tech Sgt. Jamie Johnson
1st Lt. Antonio Brunson

RETIREMENTS

Boby Smith, ATA
Gary Lewandowski, AF

NEW HIRES

Marty Land, ATA
Tommy Cross, ATA
Siavash Sefibakht, AF

PROMOTIONS

Thomas Northcott, ATA
David Gladney, ATA



U.S. Air Force Academy cadets with the Air Force Wings of Blue Parachute Competition Team perform at the U.S. Parachuting Association's national Championships Nov. 3 in Eloy, Ariz. The "Air Force Intrepid" competition team took first place in the four-person intermediate free-flying event. (U.S. Air Force photo)



AEDC Information Line

454-3600

The AEDC Information Line is available for ATA employees to get the latest information on a wide variety of emergency circumstances that could impact base operations or driving conditions.

26th Annual

Arnold Air Force Base



Turkey Trot

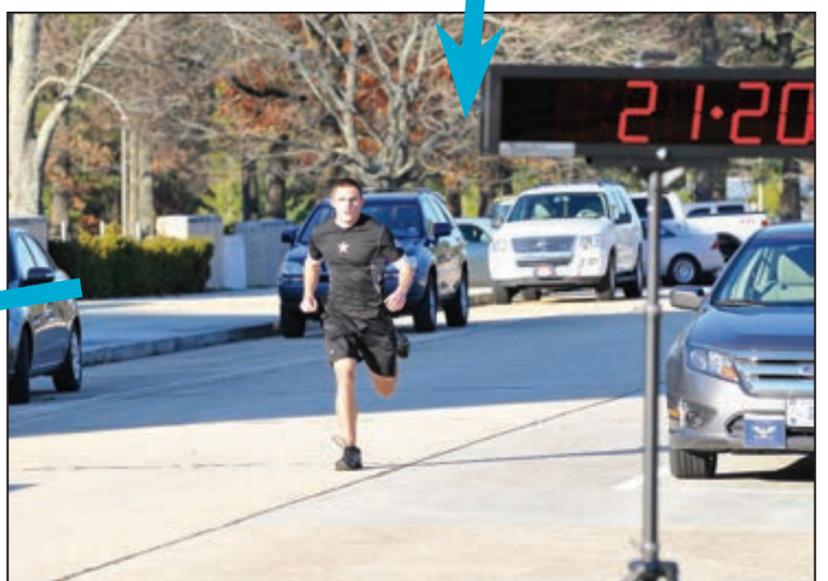
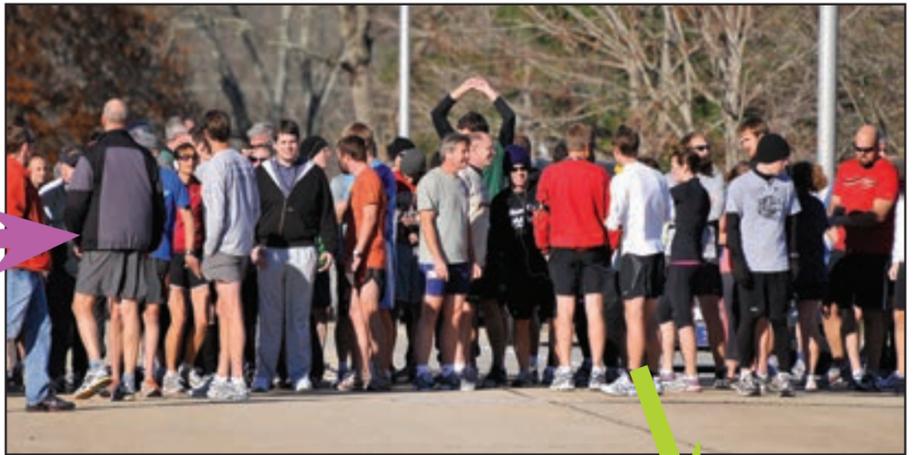
November 17, 2011

Team Winners

- 1. Senior Discount – 78:24:00
- 2. TTS – 82:27:00
- 3. Hypo Sonics – 87:13:00

Individual Winners

- 1. 1st Lt. Brad Chronister – 15:39:00
- 2. Eric Nelius – 19:04:00
- 3. 2nd Lt. Matt Karczewski – 19:30:00



AMCAS antenna can help speed communications

By **Patty Welsh**
66th Air Base Group Public Affairs

HANSCOM AIR FORCE BASE, Mass. – Recent flight tests conducted by a combined team from the Electronic Systems Center, the Space and Missile Systems Center, MIT Lincoln Laboratory and MITRE Corp. have shown that the low-profile Advanced Multi-band Communications Antenna, installed on a wide-body aircraft, can effectively support high speed Ka-band and EHF communications.

The tests demonstrated that the AMCAS meets needed performance characteristics, such as small size and weight, easy installation, consistent coverage in all directions and the ability to mount to the aircraft skin.

The system will provide secure, long-range military satellite communications connectivity for future Air Force airborne platforms – providing voice, video and chat capabilities.

“This antenna could represent a major breakthrough in supporting multi-megabit-per-second-class airborne communications using the WGS [Wideband Global SATCOM] and AEHF [Advanced Extremely High Frequency] satellites,” said David Madden, MILSATCOM

Systems Directorate director at Space and Missile Systems Center.

The antenna, mounted on the MIT LL test bed aircraft, was able to successfully establish communications with a MILSTAR satellite.

The flight tests were performed with the AMCAS securing connections with MILSTAR at various look-angles, with the array outperforming the anticipated results.

During later testing with a WGS satellite, the antenna, once again, exceeded expectations.

“These tests illustrate that it is possible to have Air Force platforms connect to military satellites,” said Tom Macdonald from MIT LL. “In addition to showing the maturity of the antennas, the flight campaigns also demonstrated that complete MILSATCOM terminals can be installed and operated on airborne platforms.”

As it stands today, some military aircraft typically connect through commercial satellites. The government, then, must pay for that commercial usage, Macdonald said. Connecting through military satellites would alleviate the necessity to pay those fees.

Moreover, because the AMCAS is already developed, users need only to fund integration and installation, providing



Mechanic Tom Buell installs an Advanced Multi-band Communications Antenna on a testbed aircraft in a flight facility in June. Recent flight testing conducted by a team from the Electronic Systems Center, Space and Missile Systems Center, MIT Lincoln Lab and MITRE Corp. shows that this low-profile antenna can support high-speed Ka-band and EHF communications on wide-body aircraft. (Courtesy photo)

additional cost savings to the government.

“In fact, while the antenna was flight tested on the MIT LL Boeing-707 platform, the same configurations could be implemented onboard operational wideband aircraft such [as] the AWACS, Joint STARS, transport and tanker aircraft and special operations C-130 based platforms,” said Madden.

There is also another benefit to using military satellites – security.

“Since the communications will be through military satellites, security will improve for all traffic, including voice, video and chat,” said Bill Lyons, AMCAS program manager.

See **ANTENNA**, page 14

VCSAF: America is an air and space nation

Talks about successes, areas that could be improved

By **Mitch Gettle**
Air Force Public Affairs Agency

WASHINGTON (AFNS) – The Air Force vice chief of staff discussed many topics concerning the current and future state of America’s airpower at the Air Force Association’s Global Warfare Symposium Nov. 18 in Los Angeles.

Airpower has made the United States a global power, Gen. Phil Breedlove told an audience of approximately 300 AFA members, Airmen and industry officials attending the annual conference.

“It has allowed us to achieve unprecedented connectivity, facilitating our nation’s economic rise as well as our ability to influence events half a world away within hours,” he said.

General Breedlove said America is an air and space nation and in almost every category the U.S. has been the global benchmark for air and space power.

“The unique combination of speed and flexibility has made airpower the key to our strategic agility – and in the future of smaller, less-deployed military forces, agility will be the name of the game,” he said.

Speed and flexibility, two tenants of airpower, provide the Air Force with the strategic, operational and tactical ability to rap-

idly move between theaters of operation, General Breedlove said. For example, with on-going air operations in Iraq and Afghanistan, the Air Force was able to simultaneously provide support to the Japan earthquake humanitarian operations and provide combat air support to NATO over Libya.

“This ability to rapidly move from one theater of operation to the next, uninhibited by mountains, deserts, straits or vast oceans, allows our national leaders the strategic flexibility to choose when to engage – and when to disengage – from conflict,” General Breedlove said.

The success of air operations in the quick build-up and response to the Libya crisis relied on intelligence, surveillance and reconnaissance assets for not only strategic, but operational and tactical planning as well, the general said.

“We had neither the time nor the on-station assets to begin building detailed target lists for strike aircraft,” Breedlove said. “We threw a whole range of ISR assets at the problem and relied on the ingenuity and flexibility of our Airmen to piece them together.”

Lessons learned from the Libya operation and other recent operations highlighted a need to defeat

anti-access and area-denial strategies of potential adversaries, he said. The Air Force also recognized the need to develop a closer air-sea integration with the Navy.

Without full institutional support, the arrangements and cooperative successes between the two components would atrophy again and for this reason a strategic partnership has been formed with the creation of the Air-Sea Battle Office at the Pentagon, Breedlove said.

“Together, the Air Force, Navy and Marine Corps are developing the Air-Sea Battle operational concept in order to create an enduring partnership between our nation’s air and sea services to defeat these (anti-access and area-denial) strategies,” General Breedlove said.

Budgetary constraints affect how the growing threat of anti-access and

area-denial adversaries will be addressed, he said.

“Our task would be daunting even in the relatively permissive budget environments of past decades, during which we enjoyed a greater ability to purchase cutting-edge weapon systems and capabilities,” General Breedlove said. “Our budgetary strategy has been to reduce capacity while maintaining capability.”

The future Air Force will be capable of accomplishing many of the mission sets of today, but will do so at a significant level of risk and with less capacity to respond to multiple crises, he added.

“I am confident that American airpower, combined with the complementary capabilities of our joint and coalition partners, will continue to be decisive, no matter the foe we face,” General Breedlove said.



Air Force Vice Chief of Staff Gen. Phil Breedlove speaks at the Air Force Association’s 2011 Global Warfare Symposium in Los Angeles, Calif., Nov. 18, 2011. Breedlove discussed current operations as well as the unique and enduring capabilities the Air Force provides the nation. (U.S. Air Force photo/Lou Hernandez)

Binge drinking often a problem during the holiday season

TINKER AIR FORCE BASE, Okla. (AFNS) – The holiday season is upon us, and it's a time when many people find themselves celebrating at parties where alcoholic beverages are being served. Therefore, it is important that everyone know what they are dealing with when it comes to consuming alcohol.

The National Highway Transportation Safety Administration reports that in 2009, there were 1.4 million driving-under-the-influence arrests and drunk drivers claimed the lives of 10,839 people. Binge drinking and drinking and driving are more likely to occur during the holiday season when people are off work and celebrating the season.

Binge drinking is drinking to get drunk, and is defined as five

or more drinks for a man and four or more drinks for a woman in a two-hour period. What is a drink? One drink is 1.5 ounces of distilled liquor, 5 ounces of wine or 12 ounces of beer.

Some of the consequences to binge drinking are death from alcohol poisoning, aspiration and heart arrhythmias, health officials said. Binge drinking is also linked to legal problems such as DUIs, public intoxication, drunk and disorderly, domestic violence and assaults. Of course, prolonged or heavy use can lead to liver damage and heart disease. Alcohol is rapidly absorbed into the bloodstream, initially causing disinhibition, then acting as a depressant. A hangover from the night before is a sign that the body is going through withdrawal

from alcohol.

One unfortunate consequence of the holiday season is a sharp increase in alcohol-related accidents and deaths. Many partygoers don't drink often, leaving them with low tolerance and more vulnerability to the alcohol's effects, officials said. At the other extreme are problem drinkers who find plenty of social occasions to drink and may feel less inhibited at parties where alcohol is liberally served. Not to mention, most of these folks more than likely are drinking and driving.

If you are hosting a party and serving alcohol, here are some steps to ensure that all guests are comfortable and that alcohol does not become a problem:

– Never pressure anyone to have a drink;

– Offer a selection of non-alcoholic beverages as well as plenty of food;

– Stop serving alcohol at least one hour before the party ends;

– Don't serve alcohol to an intoxicated guest;

– Don't let anyone who is drunk or had more than the recommended drinking drive home; and

– Promote having a plan and a designated driver prior to attending the party.

Because individuals are so different, it is difficult to give specific advice about drinking. But certain facts are clear -- there's no way to speed up the brain's recovery from alcohol and no way to make good decisions when you are drinking too much, too fast. So this holiday season, do

not underestimate the effects of alcohol. If you drink have a plan:

– Set limits – no more than three drinks for the evening. Keep count;

– Pace yourself. Have “drink spacers” – make every other drink a nonalcoholic one;

– Call a taxi/friend/family member/supervisor; and

– Have a designated driver.

Lastly, consider the consequences of an arrest or a potentially fatal crash, and make plans to get home safely and remember that a designated driver is someone who hasn't had any alcohol, not simply the person in your group who drank the least. Have a safe holiday season!

(Courtesy of the 72nd Air Base Wing Alcohol Drug Abuse Prevention and Treatment Office)

Air Force leaders issue holiday safety message

WASHINGTON (AFNS) – Secretary of the Air Force Michael Donley, Air Force Chief of Staff Gen. Norton Schwartz and Chief Master Sgt. of the Air Force James A. Roy send the following holiday safety campaign message to all Air Force personnel:

“Safety never takes a holiday’ is the theme of this year’s holiday safety campaign. We urge all Airmen, uniformed and civilian, to take a few extra minutes to thoroughly think through your holiday plans and use sound risk management when traveling and participating in winter activities.

“We also thank our Airmen, commanders, family members, and safety professionals who are working very hard to reduce mishaps. Your efforts are paying off. We lost no Airmen to personal motor vehicle mishaps between Christmas and New Year’s Day during the past two years. This year, we are on track to achieve the Secretary of Defense’s goal to reduce preventable, off-duty automobile mishaps.

“We still have work to do in other mishap areas and will roll out a ‘Quest for Zero’ initiative in the coming year to reduce preventable on-duty fatal mishaps. This year’s holiday safety campaign focuses on stress management, winter driving, winter sports, responsible drinking and preventing complacency. All Airmen have a responsibility to ensure a safe holiday for themselves, their fellow Airmen and their families by being alert to safety risks, both on- and off-duty. By employing personal and wingman risk management concepts, we might once again enjoy a successful winter holiday season with no preventable mishaps.

“Whether you are deployed or serving at home, your dedication and sacrifice are profoundly appreciated. Happy holidays to you and your families. Travel and celebrate with care, and remember that safety never takes a holiday.”



AS AN AIR FORCE CIVILIAN, WHERE CAN I

FIND HELP?

We all face challenges, but we don't have to face them alone.

IF YOU NEED HELP WITH... TRY THESE AGENCIES & THEIR RESOURCES

Health & wellness planning	AFMC Wellness Support Center	www.afmcwellness.com
Health screenings & education	Civilian Health Promotion Services	(931) 454-6440
Work, personal or family issues	Employee Assistance Program	(800) 222-0364
Mental health & substance abuse	Centerstone	(931) 461-1300
Unplanned pregnancy	Crisis Pregnancy Assistance Center	(931) 728-6440
Suicide prevention	National Suicide Prevention Lifeline	(800) 273-8255
Sexual assault & victim advocacy	Sexual Assault Response Coordinator	(931) 581-7494
Crime victim advocacy	Victim Witness Assistance Program	(931) 454-4567

Arnold Golf Course 454-7076

Check us out on Facebook! Arnold AFB Golf Course

Arnold Golf Course will have a **merchandise sale the entire month of December**. Do your Christmas shopping with special discounts ranging from 5 to 30 percent off. Pick out your merchandise then come to the counter and roll a die to determine your discount. You must pay for the merchandise immediately after rolling. Roll a one for 5 percent off, two for 10 percent off, three for 15, four for 20, five for 25 or six for 30 percent off. No double discounts and Members First Plus discount does not apply in conjunction with this offer.

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

Arnold Golf Course has a new **winter special** good seven days a week through Feb. 28. Play all day for \$10 green fee. Regular cart fees apply.

Arnold Lakeside Center 454-3350

Check us out on Facebook! Arnold Lakeside Center and Arnold AFB Service Information Tickets and Tours

Café 100 will begin serving Hap's Pizza Dec. 5 available 10:30 a.m.-1:30 p.m. Monday through Friday. Pizza is available by the slice in pepperoni, sausage or with the works ("The Galaxy" – pepperoni, sausage, ham, green pepper, onion, mushrooms, black olives, bacon and extra cheese). Whole pizza will also be available if ordered the day prior and will require completing an order form and paying in advance. Selections for whole pizzas may be made from the Hap's Pizza menu.

Books Are Fun is back for a **book fair** from 9:30 a.m.-3 p.m. Dec. 6 in the A&E Building's new training rooms, A125 and A127. Discounted selections include paperbacks, best sellers, educational, reference, cookbooks, children's items, gift selections and more. Save up to 70 percent off retail prices.

Arnold Lakeside Center will ring in the New Year with a **Casino Night on New Year's Eve**, Dec. 31, beginning at 6 p.m. for ages 18 and older. A dinner buffet will be served 6-9 p.m. and includes tossed salad, prime rib, Cajun crusted tilapia, balsamic vegetable, sautéed green beans, baby baker potatoes, wild rice blend, assorted dinner rolls, tea, coffee and assorted cheesecake for dessert. Gaming will be from 7-10 p.m. and includes craps, roulette, blackjack and wheel of fortune. Participants are given play money to try their hand at these games to increase their dollars which will then be used at a prize auction beginning at 10:15

p.m. As midnight nears, watch the New York City ball drop countdown on the big screen. Immediately following there will be a breakfast buffet served until 1 a.m. Reservations are required for the buffets by Dec. 19. Cost is all inclusive for both buffets at \$26 for members and \$28 for nonmembers. Call 454-3350 for reservations or more information.

First Friday Jam is cancelled for December but will resume Jan. 6 starting at 6 p.m. Come to play, listen, dance and enjoy. Join in with the band to play an instrument or sing, or take over and do your own performance.

Movie nights are Thursdays with movie start time of 6:30 p.m. and dinner available from the Express or Pizza menus from 5-8 p.m. The schedule for December is: **Dec. 8** – "Contagion," rated PG-13 starring Matt Damon, Kate Winslet and Jude Law. A thriller centered on the threat posed by a deadly disease and an international team of doctors contracted by the CDC to deal with the outbreak. **Dec. 15** – "Cars 2," rated G starring voices of Owen Wilson, Larry the Cable Guy and Michael Caine. Star race car Lightning McQueen and his pal Mater head overseas to compete in the World Grand Prix race. But the road to the championship becomes rocky as Mater gets caught up in an intriguing adventure of his own: international espionage. **Dec. 22 and 29** – No movie due to Christmas holiday closure.

Wednesday Lunch will no longer be served at the Arnold Lakeside Center after Nov. 30. Hap's Pizza will be available from Café 100 Monday through Friday 10:30 a.m. – 1:30 p.m. by the slice or order whole pizzas the day prior.

Friday night dining room specials available from 4-9 p.m. Dec. 2: Meatball sub with fries, \$5.95 members, \$6.95 nonmembers. No First Friday Jam. **Dec. 9:** Lynchburg ribeye, \$13.95 members, \$14.95 nonmembers. **Dec. 16:** Homemade lasagna, \$10.95 members, \$11.95 nonmembers. **Dec. 23:** Closed. **Dec. 30:** 50-cent wings members, 60-cent wings nonmembers. All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

Saturday availability and specials: Dec. 3: Pizza and Express menu only. **Dec. 10:** Monterey chicken, \$10.95 members, \$11.95 nonmembers. **Dec. 17:** Prime rib for two, \$29.95 members, \$31.95 nonmembers. **Dec. 24:** Closed. **Dec. 31:** New Year's Eve Casino Night \$26 members, \$28 nonmembers. Sign up by Dec. 19. See complete details in Casino Night article. The dining room is open on Saturdays from 5-9 p.m. unless otherwise specified. All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

Evening Under the Stars Dinner, Dance and Show coming January 21. This semi-formal event will include dinner service and cocktail social from 5:30-

6:30 p.m. with magic show from 6-7 p.m. and dancing to the Jerry Anderson Ensemble from 7-10 p.m. The event is for ages 18 and up and reservations are required by January 17. Cost is \$16.95 for members and \$18.95 for nonmembers. This event is limited to the first 80 to sign up.

Daytona 500 tickets available at discounted prices through ITT (Information, Tickets and Travel). The race will be Feb. 26 and various packages are available. Call 454-3303 for details.

Sign up now for three months of **free club membership** and win instant cash (gift card). Everyone who joins any Air Force club between now and Dec. 31 will automatically receive three months free dues, be enrolled in the free cash back rewards program and will win \$5-\$100 instantly upon application. "We want all personnel to consider club membership and understand the benefits of club membership, and our 'It Pays to Club' membership campaign gives them the opportunity to try their club free for the first three months," said Fred McKenney, chief of the Air Force Food and Beverage Division.

During the period everyone interested in AF Club membership should look for the membership promotional materials in their local club and other Services activities, said McKenney. "Pick up an application, fill it out, and experience the benefits of membership!" he said.

The membership card provides numerous benefits. The Military Free Cash rewards program is an outstanding benefit to members. When you use your club membership card in any on-base Force Support activity, you earn 2 percent cash back on every eligible purchase including AAFES (to include gas) and Commissary. Additionally you earn 1 percent cash back on eligible purchases everywhere else including all off-base purchases. In addition to being able to redeem points for cash back and gift cards, you now can also redeem for travel, to include airline tickets, hotel, and car rental – super flexibility – and it is all free, as a benefit of club membership!

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 members-only programs. Your 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!

Family Member/Youth Programs (FamY) 454-3227

Check us out on Facebook! Arnold AFB Youth Programs

Welcome back Pretty Discoveries for a **jewelry fair** Dec. 8 at the BX/Commissary 9 a.m.-3 p.m. Their selections would make great Christmas gifts. All jewelry prices are below \$20 and there will be door prize drawings

for free jewelry. Pretty Discoveries also carries belts and handbags.

Arnold Youth Programs is planning a **day trip to the Martin Luther King, Jr. Center** in Atlanta, Ga., Jan. 14 in recognition of Martin Luther King, Jr. Day, which is a federal holiday the third Monday of January honoring his birthday, Jan. 15. The Center is the official living memorial dedicated to advancing the legacy of Dr. King. We will visit other attractions throughout the day so remember to wear proper footwear and dress accordingly, as this is a walking tour of about a square mile. We will begin our visit by following the Civil Rights Walk of Fame past the statue of Mahatma Gandhi to the National Park Service Visitor Center. After exiting the Visitors Center we will tour Dr. King's crypt, now also the resting place of his widow, Mrs. Coretta Scott King. Then it's over to the Eternal Flame which symbolizes the continued efforts of a World of Justice, Peace and Equality, for which King gave his life to achieve. Next will be the Freedom Hall, which is one of two exhibits used for events and programs. Directly across the street we'll visit his birth home and end with a guided tour of the Historic Ebenezer Baptist Church (Heritage Sanctuary) where the late Dr. King began his pastoral. This trip is open to ages 9-18 but is limited to the first 12 to sign up. Cost is \$35 and includes morning snack, sack lunch and stopping for dinner on the way back. We will depart from the Youth Center at 8 a.m. and will return approximately 8 p.m. Remember to bring extra money for the gift shop. Sign up deadline is Dec. 27.

Instructional Classes (Music, Spanish & Fencing) coming in 2012!

If you or your children would be interested in any of the following classes please contact Youth Programs now. If there is enough interest, classes would begin the first of the year (January or February). Plans are underway to offer a variety of music lessons to include piano, acoustic guitar, electric guitar, electric bass, drums/percussion and even voice. Also available are Spanish lessons teaching basic knowledge, grammar and vocabulary in a classroom-style setting. Group lessons for beginner fencing, often called "physical chess" will also be available. Modern fencing allows participants of all ages and attributes to meet on a more equal footing than almost any other sport. With its origins in armed combat, honor and intrigue, this isn't what you see in the movies, but a contact sport and true martial art. As a martial art, fencing teaches respect for one's opponents and mental, physical and emotional control. Students begin with the fundamentals of Olympic-style foil fencing: attack, defense and proper "etiquette" – progressing to concepts of distance, timing and strategy. Emphasis is on developing a usable and solid foundation through body-awareness exercises, group/paired practice, drills, demonstrations and explanations. Music and Spanish lessons are open to all ages and fencing is for ages 9 and older. Call today! The more involved, the better the rates will be

Hours of operation:

Arnold Lakeside Center: Catering/Management offices by appointment. Dinner: Arnold Express Menu or Hap's Pizza only Thursday 5-8 p.m., dinner or Arnold Express Menus and Hap's Pizza Friday 4-9 p.m. and Saturday 5-9 p.m.; Main Bar Thursday 5-8 p.m., Friday 3:30-10 p.m. and Saturday 5-10 p.m.; Social Hour Friday 4-6 p.m., Movie Night Thursday 6:30 p.m. **Closed Dec. 20-29.**

Family Member/Youth Programs: Tuesday through Friday 10 a.m.-5 p.m., Saturday 12-5 p.m. **Open 12-4 p.m. Dec. 23, Closed Dec. 24 and Jan. 1.**

Outdoor Rec: Main Office, Check In and Auto Shop Tuesday through Saturday 10 a.m.-5 p.m. Marina by appointment only. **Closed Nov. 24.**

Fitness Center: Monday-Friday 5 a.m.-9 p.m.; Saturday 8 a.m.-4 p.m. **Open 5 a.m.-6 p.m. Dec. 19-22 and Dec. 27-30, Open 8 a.m.-4 p.m. Dec. 23, 24, 31 and Jan. 2, Closed Dec. 26.**

Arnold Golf Course: Pro Shop & Driving Range 8 a.m.-dusk. Driving Range open 24 hours with prepurchased key card. Mulligan's Coffee Bar & Grill Monday through Friday 10:30 a.m.-2 p.m., Saturday and Sunday 8 a.m.-2 p.m. **Closed Dec. 25 and Jan. 1.**

Recycling: Monday through Friday 7 a.m.-4 p.m. **Closed Dec. 26 and Jan. 2.**

Wingo Inn: Monday through Friday 7 a.m.-6 p.m., Saturday and Sunday 8 a.m.-4 p.m. **Closed Dec. 25**

Barber Shop: by appointment – Monday through Friday 8 a.m.-4 p.m. **Closed Dec. 26 through Jan. 2.**

GLC: Monday through Friday 7 a.m.-3:30 p.m. May vary depending on bookings. **Closed Dec. 23, 26 and Jan. 2.**

Café 100: Monday through Friday 6:30 a.m.-1:30 p.m. **Closed Dec. 23, 26 and Jan. 2. Open 6:30-9a.m. Dec. 27-30.**

Nonappropriated Funds Human Resources: Monday through Friday 7:30 a.m.-4 p.m. **Closed Dec. 26 and Jan. 2.**

for these classes.

Fitness Center 454-6440

Check us out on Facebook! Arnold AFB Services Fitness Center

Bench Press Competition is set for 4 p.m. Dec. 7. Each participant will get three attempts to lift their maximum, setting their own weight as they go. A judge will determine a clean lift. There will be separate categories for men and women. Winners will be the man and woman who press the highest percentage of their body weight. Call to sign up.

The Fitness Center is doing a **Cool 100 Walk/Run Incentive Program** where participants log their miles using the honor system. Participants may use the track located behind the A&E building, the trail behind the Fitness Center, a treadmill in the Fitness Center facilities or at home. These miles are to be turned in during the fall and winter months either daily or weekly. Participants who complete 100 miles before Feb. 1 will receive a T-shirt. Call 454-6440 to sign up and remember to give your shirt size.

Outdoor Rec (ODR) 454-6084

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

Deck the Doors contest entries must be completed by close of business Dec. 8. On Dec. 9 Outdoor Recreation staff will take pictures of every door that has entered. Select judges will be given the pictures to make their selections for first, second and third place. The winners will be announced at the DOD Holiday Party.

They say that all birds fly south for the winter. Join Outdoor Recreation for **winter season bird watching** Dec. 10 from 2-4 p.m. and you'll find out that is a myth. Not all birds leave, especially in Tennessee. We will go to certain locations around the area and see what birds stay with us during the cold months. Get an education on what birds they are and the reason they do not leave. Make sure you bring binoculars so you can see as far as possible. We'll make a list of what we see

and keep it with us, because during April we'll go back and see what birds come home for the warm season. This event is for all ages and cost is \$8. Sign up by Dec. 8. There must be at least five to participate and no more than 14.

The **USAF Arts & Crafts Gallery** program is now underway. Enter your craft, photography and digital art images to Outdoor Recreation by Dec. 30. Entries will be submitted to HQ AFMC for approval and upload to the Air Force Gallery. There are three age divisions (youth 6-12, youth 13-17 and adult) and each category allows three entries per person. There are specified criteria to follow for submission and an entry application to be completed. Call for complete details. All approved submissions will be available for viewing on airforcegallery.com in March/April 2012.

Paintball is now every Saturday 9:30 a.m.-3:30 p.m. We have added a few new forts to the course. Anyone age 10 and older may play but ages 10-17 must have a parent permission form. Interested participants need to call and sign up at least a day ahead of time to ensure equipment availability. Once the day comes everyone will meet at the paintball field. Cost is \$35 per person with equipment provided and includes 500 paintballs and a tank of air. It is \$20 per person for those with their own equipment and that also comes with 500 paintballs. All paintballs used must be purchased from ODR for \$13 per bag of 500 or \$45 for a box of 2000. So if you're looking for some fun-filled, scenario paintball we will see you on Saturday.

Wingo Inn 454-3051

Check us out on Facebook! Wingo Inn

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

Gossick Leadership Center 454-3024

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

Proactive response to recent data breach announced

WASHINGTON – The Department of Defense has announced that the TRICARE® Management Activity (TMA) has directed Science Applications International Corp. (SAIC) to provide one year of credit monitoring and restoration services to patients who express concern about their credit as a result of a data breach that occurred in Texas and was reported to TMA on Sept. 14.

Approximately 4.9 million patients treated at military hospitals and clinics during the last 20 years may have been affected by the breach. Potentially affected patients are being notified by letter.

“These additional proactive security measures exceed the industry standard to protect against

the risk of identity theft,” said Brig. Gen. W. Bryan Gamble, TMA deputy director. “We take very seriously our responsibility to offer patients peace of mind that their credit and quality of life will be unaffected by this breach.”

Immediately upon learning of the recent SAIC data breach TRICARE posted information about the data breach on their website at www.tricare.mil to inform their beneficiaries. There is no evidence any of the data has actually been accessed by a third party, and analysis shows the chance any data was actually compromised is low. Proactive measures are being taken to ensure potentially affected patients are kept informed and protected.

The data involved in the breach may contain names, Social Security numbers, addresses and phone numbers, and some personal health data such as clinical notes, laboratory tests and prescriptions. There is no financial data, such as credit card or bank account information, on the information that was taken.

Concerned individuals may contact the SAIC Incident Response Call Center, Monday through Friday, 9 a.m. to 6 p.m. Eastern time at (855) 366-0140 (toll free) for U.S. callers and (952) 556-8312 (collect) internationally.

(Information provided by the Office of the Assistant Secretary of Defense Public Affairs.)

ANTENNA from page 10

When the project began in 2004, the ESC AMCAS Program Office, MIT LL as well as MITRE set out to find the best possible solution to a user requirement for a new airborne SATCOM antenna.

MITLL team members David Snider, AMCAS chief engineer, and Dr. Steve Targonski, technical staff, working in conjunction with the ESC program office and MITRE, found that users wanted something smaller, lighter and more durable that could provide consistent communications independent of the orientation of the aircraft.

Additionally, because of aerodynamic concerns, the antenna would also have to be less than

10 inches in diameter so that aircraft would not lose any time on station.

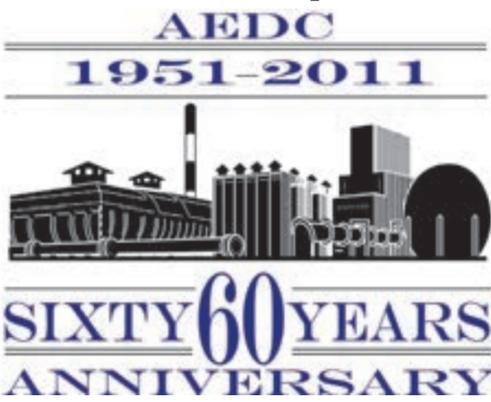
The AMCAS was the answer, said Lyons.

Now, personnel working with various platforms have expressed interest in the recent successful flight tests.

“They said it is a good fit, just what they were looking for,” said Scott Hardiman, Space and Nuclear Networks Division acting chief.

“This is quite an accomplishment. It is the first time the technology has been proven; we have a successful prototype. We now hope the users will realize how advantageous this capability can be for them.”

It's hard to pick one moment as the "most memorable"



Lazalier

By Glen Lazalier
AEDC Fellow

AEDC has been an invaluable contributor to the security of our country for all of these 60 years and I have been privileged to be a part of it for 46 of those years.

It is very difficult to select the "most memorable moments" or a time in which I felt "most excited" about my career at AEDC.

Should the occasions when we encountered difficulties that were solved by the application of brains, sweat and persistence in various mixes rise to the top? Or should those times in which we far exceeded expectations of the aerospace community be the ones that are most memorable? There has been a plenitude of both of these categories in my time at AEDC.

Early in my career (1966) AEDC tested the boilerplate second stage of the Apollo vehicle that placed the first man on the moon. The J-4 rocket test cell was the premier rocket test cell in the world and made absolutely essential contributions to the knowledge base needed to get to the moon. Maybe that should be the "most memorable moment," but, maybe not.

In the late 1960s and the early 1970s, the Rocket Test Facility morphed into the Engine Test Facility as the emphasis shifted to air breathing propulsion. I was extremely fortunate to play a role in the development of standardized test, analysis and evaluation methodologies for turbine engine compression stability. These methodologies are still in use in the development of every new turbine engine that the U.S. Air Force and the U.S. Navy will be using for decades to come. So perhaps that is the "most memorable moment," but, maybe not.

In the early 1980s, the Aeropropulsion Systems Test Facility (ASTF) was brought on line as the absolutely top capability propulsion test facility in the world. Again, I was a part of the team that did that and now, some 30 years later, ASTF is playing a vital role in the development of the engines for the F-35, our latest strike fighter.

Is that the "most memorable moment?" Maybe or maybe not.

Perhaps the "most memorable moment" involves those times when it fell my lot to lead an effort to understand a "failure" of a test article or one of our facilities.

Way back in 1973 one of the developmental engines for the Pratt & Whitney F100 engine family experienced a catastrophic failure in the T-4 engine test cell.

We did not have all the current rules concerning uninterrupted duration of work then so I was able to work from the time of my normal arrival at about 7 a.m. through the failure at about 11 a.m. that day until the close-of-business the next day (about 34 hours). But when we went home that day we knew the cause of the failure thanks to the dedicated team of analysts who worked alongside me over the whole period.

Or perhaps it was the time we encountered a violent unknown acoustic interaction in testing one of the early "X-serial numbers" of the Advanced Tactical Fighter in an ASTF test cell in the late 1980s that threatened to stop testing of this vital system.

A whole lot of people worked very hard to develop a workaround for that and, finally, after another around-the-clock effort we were successful. The final understanding of the phenomenon involved experts from NASA-Langley, Georgia Tech Research Institute, Florida State University and several of our own. But maybe that's not it either.

Not all "most memorable moments" are associated with failures or unpleasant problems.

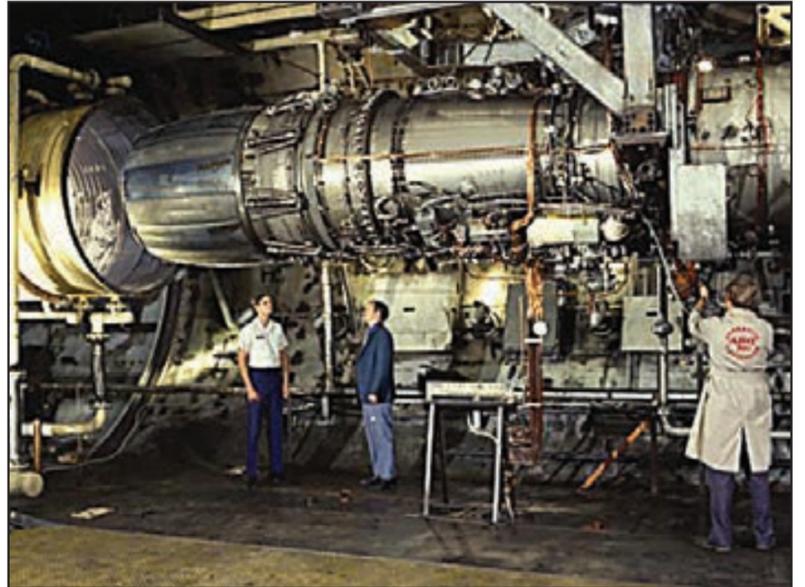
In the early 1980s, I was privileged to lead the analysis team for a Product Verification (PV) test of the General Electric F101 engine for the B-1 strategic bomber. We were on a very tight schedule and thanks to the devoted efforts of all our folks we made it. My own schedule involved six consecutive 16-plus hour days from Monday through Saturday (106 hours for the seven-day week).

On Sunday afternoon we were ready to fly to

Wright-Patterson AFB and present our conclusions (which were very well received because of the high quality that AEDC has always delivered). Is that the "most memorable moment?" Perhaps or perhaps not.

From a personal perspective the most professionally enjoyable time for me was the 13 years I spent as chief engineer for the contractor (Sverdrup and later ATA).

My job description was simple - "If it is dirty or broken, it belongs to me." Many people taught me many things over that period. So, does that contain



GE's F101 turbofan engine between running cycles in a high-altitude test cell. Four of the 30,000-pound thrust class engines powered the B-1 when it made its initial flight. (File photo)

the "most memorable moment?" Maybe or maybe not.

In the final analysis, I cannot select a single time, event or action inside or outside the fence that constitutes the "most memorable moment." Rather, I think of the aggregation of all those times, events and actions that together

are the very important consequences of working at AEDC. All of them were and are important to this country.

For me that single "most memorable moment" comes when I sit back and reflect on the opportunities afforded me to serve our country. It is then that I believe it is possible

that because of something I did (with the help of many other skilled and dedicated people), one of our service members has (or some day will) come home walking on two feet instead of in a body bag.

May God continue to bless AEDC and its efforts to bring peace to the world.