

# HIGH MACH

Header from September 1966

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Arnold AFB, Tenn.

May 20, 2011

## 2011 AEDC Fellows announced

*Five honorees to be inducted at June 24 banquet*

By Shawn Jacobs  
Aerospace Testing Alliance

AEDC will induct three new AEDC Fellows along with two Lifetime Achievement Fellows June 24 at the annual Fellows banquet.

The new AEDC Fellows are Dr. Ronald L. Clouse, James H. Nichols and Edgar Wantland. They join 61 others selected for this honor since the program began in 1989.

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

This year's honorees are William G. Gray and Jim N. Patterson. Their addition brings the number of Lifetime Achievement Fellows to five.

Edward R. Greer, deputy assistant secretary of defense for development and test evaluation (DT&E), will deliver the keynote address at the event. Greer assumed his current duties in March 2010. He is responsible for developing and revising DT&E policy in support of the acquisition of major Department of Defense weapon systems.

### Dr. Ronald L. Clouse

Dr. Clouse was team leader for development of mathematical models and computer simulations for all of the Aero-propulsion Systems Test Facility (ASTF) and a foreign technology engineering intelligence analyst. He retired in 1997 only to return a few months later as a consultant



Clouse



Nichols



Wantland



Gray



Patterson

in the foreign technology intelligence area, where he remains today as a casual employee for ATA. Dr. Clouse is being recognized for technical and managerial leadership in the testing of air-breathing engines, propulsion technology and engineering intelligence analysis of foreign technology greatly benefiting AEDC and the nation.

### James H. Nichols

Prior to his retirement, Nichols was deputy director, Operations and Maintenance Facility for then AEDC contractor Calspan Corp. He is being recognized for technical and managerial leadership in advancing the state-of-the-art for wind tunnel facility design, operation and testing. In particular, Nichols is noted for

his pioneering work in the Propulsion Wind Tunnel (PWT) and for resolving operational problems and extending the capabilities of PWT, in addition to other accomplishments.

### Edgar Wantland

Wantland has 39 years of service at AEDC in turbine engine test, analysis and evaluation. Now a senior analysis engineer, he is being recognized for his sustained enthusiasm, pursuit of the highest quality and national impact in support of Turbine Engine Analysis. Throughout his career, Wantland has positively impacted U.S. Air Force (USAF) fighter programs and has contributed to the development

See FELLOWS, page 3

## ATA employees notified about voluntary layoffs

By Kathy Gattis  
Aerospace Testing Alliance

ATA notified some employees May 9 that they could request a voluntary reduction in force (VRIF) or a voluntary layoff.

The company targeted some key areas where work has decreased significantly in recent weeks and gave those employees a VRIF letter May 9.

"ATA's turbine engine test workload for this summer is shaping up to be lower than originally projected," ATA General Manager, Dr. David Elrod, said. "Specifically, the combined effects of the cancellation of the F136 engine, the loss of the Rolls Royce Trent XWB icing test and delays in the F135 test effort have resulted in our having more wage personnel on board than required to execute the remaining Fiscal Year 2011 turbines test operations."

ATA can accept or reject VRIFs based on the number of employees volunteering, the required skill mix for current and future workloads and the timeliness of submittal.

"It is our intent and desire to minimize involuntary reductions to the work force," Elrod said, "and that is why we decided to offer the voluntary reduction in force program now."

This is the fourth time in two years the company has been forced to reduce its staff.

Since September, 2009, decreasing budgets and workload have resulted in the contractor workforce being reduced by the equivalent of 369 employees. Some of those reductions came through attrition; some through reductions in hours for part-time employees, but a majority occurred through reductions in force.

ATA currently employs 1,924 people.

## Energy usage tracked with new meters, software

By Patrick Ary  
Aerospace Testing Alliance

AEDC workers are excited about tapping into a system recently installed on base to give everyone a glimpse of how much power the base is consuming.

The system developed in ATA's Information Technology department is taking advantage of a new system used to transmit the readings from electric meters on base buildings.

Automated meters were installed in October on more than 100 AEDC buildings, including office buildings and test facilities. The Air Force has spent \$90 million to install the new meters at its bases to ensure compliance with the Energy Policy Act of 2005.

At AEDC, the meters transmit readings wirelessly every 15 minutes to a system located in the base's Power Control facility.

"We want to see what we use, because it's hard to reduce your consumption

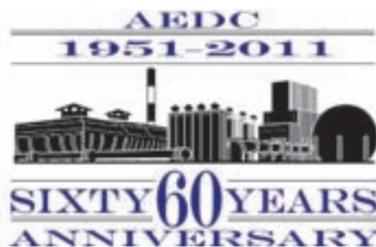
See ENERGY, page 5

### Reception for Elrod takes place Wednesday

AEDC employees are invited to attend a special reception for outgoing ATA General Manager Dr. David Elrod from 2-4 p.m. Wednesday, May 25 at the AEDC Main Auditorium. All employees are invited pending supervisor approval.



## 60 years of technology supporting AEDC



By Shawn Jacobs  
Aerospace Testing Alliance

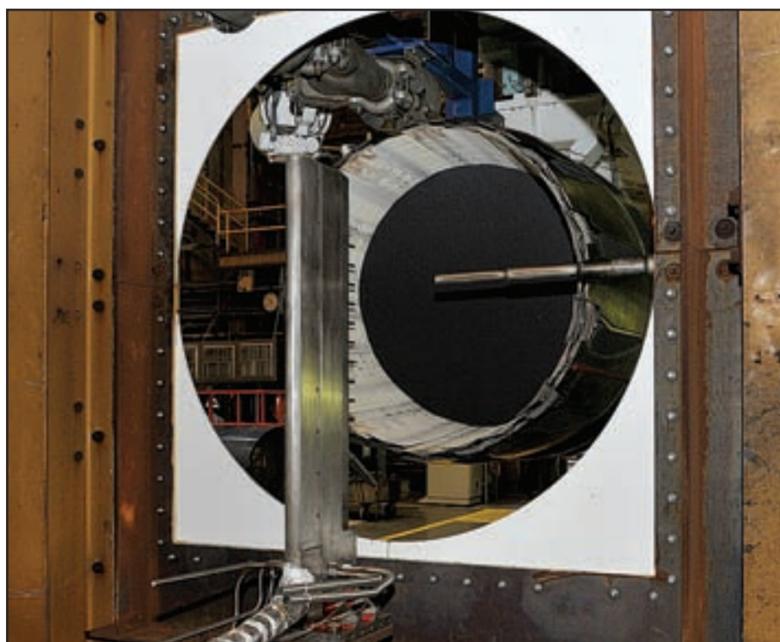
When the gates to AEDC swung open 60 years ago, what is known today as the Test Technology Branch did not exist.

In reality, however, only the names have changed because the support and capabilities the branch supplies to all of the base's testing areas have always been there.

"The function, absolutely, has been a part of AEDC from the beginning," said Lance Baxter, chief of the branch. "There are very few test capabilities that we have today that our organization and its historical predecessors have not played a unique role in developing."

Dr. Ralph Jones, manager of the ATA Technology and Analysis Branch, agrees with Baxter, who is his government counterpart.

"It goes back decades and the titles that have been applied to the function of developing new capabilities have changed over the years, but I think it's been a part of the contractor's support to the government at the center almost from the inception," Dr. Jones said. "Building the facilities and figuring out how to operate them in and of itself was a technology development effort. As those capabilities matured, there was a recognition that there was a need to continue to advance measurement and test techniques, so there was always some organizational construct that had that responsibility."



AEDC's Technology Branch developed this emissions rake and high-speed AB camera which were installed in the diffuser of the J-1 test cell to support alternative fuels testing. (Photo by Rick Goodfriend)

The Technology Branch may not do the actual testing, but few tests are conducted without the branch's support. While Technology's support is often behind the scenes, it is critical to mission accomplishment.

"[In] many of the tests we have a direct interaction, and certainly every test is either using a tool that we developed or leveraging a technology that we matured," Baxter said. "I can't think of a capability here that doesn't have some aspect of it that was developed or is currently being operated or improved by our technology organization."

"We don't do the testing. We make the testing better. A lot of our day-to-day support is in bringing new and innovative instrumentation and diagnostics (I&D)

and modeling and simulation (M&S) capabilities to existing tests. Longer term, we are working with each mission area individually to develop technology that they've identified as being necessary to continue to be capable and relevant in the future."

Technology advances external to the center have been crucial to Technology Branch accomplishments over the past 60 years. Miniaturization in electronics, smaller format lasers and advanced manufacturing techniques have all been significant contributors, and improvements in computers in general have al-

See TECHNOLOGY, page 4

### Saying goodbye ...

*Friends share memories of Dr. David Elrod's time at AEDC as he prepares to move on to a new phase of his career ... Page 10*

### Storm's Fury

*AEDC workers deal with damage, help others rebuild ... Page 9*



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

An Air Force Materiel Command Test Center

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

**Vision**

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

**Core Values**

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

**Core Values**

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

# Strategic partners: adding to the arsenal

By Col. Michael Panarisi  
AEDC Commander

Most of us in the aerospace business know this is a relatively small crowd, and consolidation has been the buzzword for years. This week, I had the pleasure of representing AEDC at NASA's Strategic Asset Management Conference, and the event reminded me of just how important our "circle of friends" is to our nation.

But more importantly, it reinforced my belief in the immortal words of Benjamin Franklin: "We must, indeed, all hang together, or most assuredly we shall all hang separately." His words are as true today as they were more than 200 years ago.

In this business, it's all too tempting to view our aerospace brethren as "competition" rather than "partners." While it's true, there are other places to

conduct testing, and of course we'd all rather have more here. But it would be a huge mistake to treat NASA, DoE, or any other government entity as a "competitor" in a business sense.

Fortunately we realized this years ago, and we have some policies in place that serve the nation above the interests of our individual programs. Added to that, we have informal agreements and relationships that are far more reaching, and arguably, far more effective than any broad policy document could ever be. Just like any other relationship, it takes effort, trust, and occasionally, a frank discussion to put differences on the table. But in the end, we all win, and from that perspective, I'd like to emphasize the importance of maintaining, and growing, our list of "strategic partners."

While I prepared my

briefing for the NASA event, it became very clear to me that we face frighteningly common challenges. I suspect (in fact, I know) many of our other partners are "in the same boat." Budgets are getting increased scrutiny. Commodities, energy, labor, insurance, you name it, is getting more expensive. All the while, the technical challenges we are postured to overcome are becoming increasingly complex.

So the obvious question: why fight this alone? Why not "band together?" That's exactly what I intend to do, and I need your help.

We're gearing up for the 60th anniversary of AEDC. In our search for a theme, we keep coming back to a central tenet that has put this place on the map: innovation.

Does anyone really believe we have a "lock" on that? Or have we developed an environment of innova-

tion through partnerships, cooperation, and sharing of ideas? I contend it's the latter, and we have a long list of people to thank for our success. Some of them you know very well: UTSI, UT Knoxville, the Sim Center, Tennessee Tech, Motlow, University of Maryland and other academic institutions that have fueled our curiosities and sharpened our portfolios.

Some others are less obvious, like our Arnold Community Council, TVA, our local chambers, and even our local and state governments.

In between, there are a host of professional societies, organizations, and technical groups that have in many ways, challenged our ideas and driven us to be more thorough, think more critically, and in the end, rise to a new level.

Do we really think we have come this far on our own?

No doubt, we owe a huge debt of gratitude to the thousands of men and women who have called AEDC "home" over six decades. But if we want to make the next 60 years even better, we will need our partners.

So, my challenge to all of us is to take the time, put in the extra effort, and keep our network strong. We've proven that this team, with our "Strategic Partners" can take on the world and win. The headwinds we are facing are not letting up. I'm for getting as many oars in the water as we can.

Don't fall into an isolationist trap as we struggle with aging infrastructure, budget cuts, and uncertain test programs.

Now, more than ever, we need to lean on our partners and find new ways to deal with age old problems. Together, we will weather this, and many more storms on the horizon.

# Security measures important, not inconvenient

By Dan Hawkins  
AEDC Police Department

When I come to work in the morning, I show my badge and sometimes have to show it at random checkpoints around the base.

When I arrive at my building, I have to drive past dozens of perfectly good, unused parking spaces and try to find room in the crowded lot out back. Due to the limited number of "approved" parking spots, I occasionally end up parking on the grass.

To get into my building, I must swipe my ID card and enter my personal identification number to unlock the entry door.

During the day, I may be asked to conduct random building checks or some other task as a means of additional security.

I know the two questions that loom in everyone's mind: Why are they making me do this and is this really necessary?

As the antiterrorism officer for the base, I am usually the one answering these questions.

These additional measures are an inconvenience to everyone and interfere with daily activities, so I will do my best to answer these two questions.

**Why are they making me do this?**

On Sunday, May 1 at around 9 a.m., the Operations Center received a message from higher headquarters. The chief of police was contacted who then initiated a recall of the Threat Working Group (TWG). The TWG is made up of several professionals from across the base with varying disciplines that all influence security.

As the antiterrorism officer, I was the first one called.

In addition to the chief and me, the base commander and representatives from OSI, Industrial Security and the Operations Center reviewed the message and studied the Force Protection Condition (FPCON) checklists. The FPCON checklists are comprised of minimum measures that must be implemented for each given FPCON and can only be waived by the Secretary of Defense.

Our first task was to study the cited threat and ensure the minimum measures were sufficient.

Once that was settled, our focus was not on WHAT to do, but HOW to do it.

Ultimately, we recalled several more people to try and affect as many of the

changes as possible before the workforce arrived on Monday morning.

By inconveniencing a handful a great deal, we hoped we could minimize the inconvenience for the masses.

Since that day, DoD has not relaxed the dictated posture. So now that we know WHY we are doing this we can focus on the next question.

**Is this really necessary?**

This question is often asked another way: Do you really think someone would want to target Arnold AFB? My answer is yes.

While I understand the argument that there are many more desirable targets than Arnold, I also understand the motives of the Ft. Hood shooter and those dubbed the Ft. Dix Six.

While neither of these bases may have been much of a consideration as a strategic target, extremists followers in the immediate vicinity of the bases chose to commit acts as freelancers to strike at the heart of the ultimate enemy: the military.

Fortunately, the conspirators at Ft. Dix were caught before they could attempt anything. That, unfortunately, was not the case at Ft. Hood, and the carnage was celebrated by many extremists who hate America.

In that realm, I believe Arnold could be considered a worthy target.

For that matter, so could a recruiting station or simply a couple of people in uniform going out to lunch.

Any reasonable precautions we can take to prevent such a catastrophe is a worthwhile effort.

A retired U.S. Army lieutenant colonel named Dave Grossman speaks

frequently about active shooters and makes an analogy about fire alarms being placed in schools. It has been many, many years since a child was killed in a school fire, but we continue to install and maintain the alarms and practice fire drills.

Nobody questions the validity of doing so.

With attacks on American soil, to include military bases, we need to adopt the same level of acceptance for security measures.

Some of you might note that we have indeed made some changes since initially implementing the checklists. These changes were the result of reconsideration of local measures we incorporated into our checklists.

We reevaluated the need for these measures and modified where possible to improve security or quality of life for the workforce. I ask you all to bear with us as we progress through these periods of inconvenience for whatever duration is required.

Although not all of us wear a uniform, we all are here at this place at this point in time to support the military and help ensure the freedom we cherish. This freedom came at a great price.

You don't have to be a student of history to understand the depth of suffering some endured. A simple Google check for the hardships or sacrifices of the Revolutionary War, Pearl Harbor, Iwo Jima or any other memorable battles should put into perspective the simple inconveniences we are asked to endure today.

As we approach Memorial Day, please remember the ones who were not merely inconvenienced, but who made great sacrifices and the ones who continue to sacrifice today.

Since  
You  
Know

Next issue's question:

On what date did ATA receive AEDC's testing and support contract?

Read this issue of *High Mach* to find the answer if you don't know it! E-mail your answers to [Arnold.HighMachAnswers@arnold.af.mil](mailto:Arnold.HighMachAnswers@arnold.af.mil) no later than next Friday, May 27. Three winners will receive a 60th anniversary *High Mach* hat. The winners' names will be drawn at random from all correct entries. Only current AEDC employees are eligible to win.

Last issue's answer:

The Aerodynamic and Propulsion Test Unit (APTU) was originally built by the Navy for its Ordnance Aerophysics Laboratory in **Dangerfield, Texas.**

Last issue's winners:

Lyle Sissom

Jimmy Steele

Paul Chadwick

## Smoking Policy

1. The following revised AEDC smoking policy is effective immediately. Smoking is permitted solely in designated areas identified by a plastic "smoke genie." This receptacle is for the sole purpose of cigarette butt disposal. If there is no receptacle, you cannot smoke in that area. It is the responsibility of all smokers to clean up the area surrounding the receptacles for any cigarette butts on the ground. Smoking in government-owned vehicles is strictly prohibited. Personnel are allowed to smoke in their personal vehicles at any time. In case of inclement or cold weather, employees are encouraged to use their personal vehicles if a sheltered designated smoking area is not available nearby. Smoking areas will be held to the absolute minimum and will be located in low traffic, low visibility areas away from points of building ingress/egress and air intakes. A map of all authorized smoking areas is available on the AEDC web portal at [https://lpapro.arnold.af.mil/PORTALimages/Smoking area map. pdf](https://lpapro.arnold.af.mil/PORTALimages/Smoking%20area%20map.pdf). Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

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

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

# Award-winning officer heading to test pilot school

By Shawn Jacobs  
Aerospace Testing Alliance

It's up, up and away for Capt. Scott Rinella.

Captain Rinella, who is a jet engine test project manager and assistant director of operations in AEDC's Turbine Engine Ground Test Complex (TSTB), will be leaving this summer for test pilot school at Edwards AFB, Calif. He was also recently honored as the Air Force Materiel Command's nominee for "Military Tester of the Year" for the National Defense Industrial Association (NDIA) awards.

"I'm going to leave probably the beginning of June time frame," Captain Rinella said. "Class starts up right after the Fourth of July holiday."

He said the school will last for almost one year. Since he will be a flight test engineer, he will not actually be learning to pilot an aircraft.

"There are two groups of people who go to test pilot school: the rated flyers (pilots navigators, combat system operators) who fly the aircraft or work systems and the flight test engineers (FTEs) who focus on the test planning and pulling the test together," Captain Rinella said.

"The pilots will fly the aircraft maneuvers or flight profiles developed during test planning and we make sure the data is sufficient to prove or meet the objectives of the test. I'm sure I'll learn a lot more when I get there, but that's the way I understand it right now."

Captain Rinella, a native of Warrensburg, Mo., has a Bachelor of Science degree in mechanical engineering from the University of Missouri, Columbia, and a Master of Science in engineering and technology management from Oklahoma State University, said test pilot school is the next logical step in his career and he is pleased to have been selected.

"If I want to stay in the test community, it's the ideal route because it will provide a breadth of experience across the test community disciplines. As I advance in my career, it will help to understand the entire realm of testing."

Becoming an FTE, however, will also require his transfer from AEDC.

"I'll find out where I will be performing test functions toward the end of school, which finishes in June 2012," he said. "I might be staying at Edwards or going to another Air Force base that has flight testing."

Lt. Col. Brent Peavy, director of the Turbine Engine Ground Test Complex, said Captain Rinella has done "great things" at AEDC.

"It was no accident that he was picked out of all the competition as AFMC's nominee for such a prestigious award [NDIA's Military Tester of the Year]," he said. "For 11 months he stepped up to fill in as the director of operations for the organization. During just that time, he oversaw 12 test programs totaling \$69 million and exceeding 3,800 test hours."

"It has been on his shoulders to deconflict several critical fa-



**Capt. Scott Rinella talks with Fairview High School students during a tour of AEDC's SL-2 test cell April 13. Captain Rinella, who recently won a prestigious AFMC award, will leave Arnold AFB for test pilot school in June. (Photo by Rick Goodfriend)**

ilities outages/upgrades, which involves hitting the mark on a series of moving targets that include multiple test schedules, maintenance and investments requirements. He also directed AEDC's longest test to date, an F-15 engine test that lasted 11 months, ran for more than 2,000 hours and put the equivalent of more than 15 years of wear on the engine."

Being a mechanical engineer by profession, Captain Rinella had nothing but praise for his tenure at AEDC.

"The work load, the location, everything is great," he said. "Tennessee is a great state. I wouldn't mind coming back here at one point in time."

"The turbine engine ground testing we perform is important and makes a big difference. Until people have been exposed to AEDC, they don't realize the upfront testing and work that goes

on in fielding engines. When engines go to flight test or are fielded at the unit level, they are just expected to perform as advertised."

Lt. Col. Ancie Dotson said, in his relatively brief time at AEDC, he has gained much respect for Captain Rinella.

"He's [Captain Rinella] been a great help to me since I arrived in November and took over the operations officer job, and Scott found out soon after that he was selected for test pilot school," Colonel Dotson said. "He's been doing a great job here. He filled in a lot when senior leadership was out of pocket. He was pulling the weight as the ops officer and also the senior military member in the branch for quite a while and did a great job."

"He brought me up to speed and showed me how this place works. This is a unique place for the Air Force. We're happy for him - sad to see him go - but it's

the right thing for the Air Force. They picked a great officer for test pilot school and to lead testing into the future."

More important than the past is the achievement and opportunity test pilot school will be for Rinella, according to Colonel Peavy.

"Combined with his previous depth of experience in engineering and flight line ops, he leaves AEDC with extensive knowledge of test and evaluation," he said. "Test pilot school will bring together what he learned in his career thus far and open the door for great new opportunities."

A Missouri native, Captain Rinella has been at AEDC since January 2009.

Captain Jeff Hartberger, who recently returned from a deployment to the Horn of Africa, will join TSTB from the Technology Branch and will assume Captain Rinella's current position, according to Colonel Peavy.

## Personal Shred Day



**AEDC employee Michael Glennon empties a bag of personal documents into a Cintas bin for the base's Personal Shred Day May 5. Employees were encouraged to bring sensitive documents such as bank statements and old tax papers from home so Cintas could shred them on-site. More than a ton of material was shredded, and 79 people on base took part. (Photo by Rick Goodfriend)**

## FELLOWS from page 1

and qualification of associated major engine test programs.

### William G. Gray

Gray retired as technical director of the 704th Test Group in 2010 after 33 years at AEDC. He is being cited for his exemplary performance in technical management, mission support and contract source selections that have enabled AEDC to remain a national asset. Gray is also recognized for providing a lifetime of pioneering accomplishments for AEDC in all facets of the center including test operations, test investments, civil engineering, mission support, contract source selection and contract management.

### Jim N. Patterson

Patterson made vital contributions to AEDC during 35 years of outstanding service in plant engineering, control systems, specialized power supplies maintenance and management. He was deputy general manager of then AEDC contractors Cal-

span/Microcraft when he retired in 1994. Patterson is recognized for contributing greatly to the success of AEDC over the years through his work in engineering and maintenance of all types of air-moving plant equipment and through his in-depth experience and leadership at every organizational level.

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

Candidates considered for selection as either an AEDC Fellow or as an AEDC Lifetime Achievement Fellow are current or retired military, civilian and operating contractor and subcontractor personnel assigned or previously assigned to AEDC. The invitation-only banquet will be held at the Arnold Lakeside Center.

## ATA suggestion program for April 2011

Total Cost Savings/Avoidance for the Overall Suggestion Program FY11-YTD: **\$217,839.59**

Overall amount awarded to suggesters FY11-YTD: **\$10,075.00**

Performance for April 2011 Total Cost Savings/Avoidances for April 2011: **N/A**

Amount awarded to suggesters for approved/implemented suggestions: **\$50.00**

Suggestions Received: **7**  
Number of Suggesters: **8**  
Approved Suggestions: **3**  
Implemented Suggestions: **0**

## AEDC co-sponsor of air show

AEDC is co-sponsoring the Kiwanis Air Show and Fireworks Display July 1 at the Tullahoma Airport as part of the center's 60th anniversary celebration.

Parking and gates open at 3 p.m. The only entry point to the event will be the main gate beside the terminal building at the airport. Admission is free and concessions will be available. The rain date will be July 2.

The featured act of the show will be the A-10 Warthogs. A

number of static aircraft will be open for display to the public. AEDC will also have several displays highlighting the center's history and contribution to the A-10 program.

The fireworks will begin around 8:45 p.m. and last about 30 minutes.

Attendees are invited to bring lawn chairs, blankets, sunscreen, hats, water in coolers or backpacks and flashlights. Glass containers and alcoholic beverages are prohibited.

## Track ribbon cutting next week

Runners at AEDC now have a chance to run on a brand-new surface that's easier on the feet.

The ribbon cutting ceremony for the A&E Building's new running track will take place at 7 a.m. May 25. The track is already open for runners.

Since the weather warmed up work has been ongoing to finish up the track project, which was

begun last year. In the last few weeks, crews have added layer after layer of rubberized material onto the track. Lane stripes were painted onto the rubber surface last week.

The project was funded by dollars specifically earmarked for Department of Defense Fitness Operations and Maintenance Projects.



## 60th special edition in newspaper racks June 20

AEDC is celebrating its 60th anniversary with a special glossy magazine issue of *High Mach* titled "60 Years of Progress."

The publication is filled with pictures of AEDC's facilities, programs that were tested and the people who have used their knowledge and talents to ensure that U.S. airpower is the best in the world.

AEDC employees will be able to pick up a copy of the

60th anniversary publication in any *High Mach* newspaper rack. *High Mach* mail subscribers will automatically receive a copy of the magazine. Others need to reserve a copy.

Call (931) 454-5655 or e-mail [Arnold.HighMach@arnold.af.mil](mailto:Arnold.HighMach@arnold.af.mil) to reserve a copy by June 7.

Also, do not forget to visit [www.arnold.af.mil](http://www.arnold.af.mil) for many other 60th anniversary stories and features.

## TECHNOLOGY from page 1

lowed great strides in the M&S area.

“A lot of our M&S capability increase has certainly come from software – developing better simulation tools through better modeling techniques, better algorithms and improved physical models – but a large part of our increased capability has come from the shear increase in computer capability: memory, speed, disc space and so on,” Dr. Jones said. “In the area of intrusive diagnostics as manufacturing techniques continue to improve, there are techniques to manufacture things out of more esoteric materials – to make them smaller, to make them more durable. In addition, advances in computer capabilities have benefited this area as well as allowing rapid development of adaptable data acquisition systems to meet rapidly changing needs.

“Those kinds of advances allow us to design things, such as miniature probes that can survive extended exposure to very harsh environments, which we couldn’t have done 20 years ago. Even on the noninvasive side, the advances and miniaturization of lasers, electronics and signal processing allowed more sophisticated measurements and faster measurement taking.”

As test articles that arrive at AEDC continue to advance, so must the facility’s capabilities and measurement and analysis techniques. There has always been a motivation beyond the initial inception of the center to continue to understand how to draw new information from tests and the analysis tools that follow, according to Dr. Jones.

“Taking measurements is one thing, but then interpreting them is another step in the process,” he said. “We support development of tools to do that. In some cases we perform the analysis, but oft times we support the test complex in the provision of analysis tools to help them do analyses more quickly, more accurately, etc.”

Post-test computational fluid dynamics (CFD) is an example.

CFD simulations provide insight for diagnosing and correcting data anomalies and extrapolating ground-test data to flight scenarios. In addition, CFD can be used pre-test to support better test planning both from the standpoint of facility operation and identification of high priority test points.

Not only is the Test Technology Branch diverse – supporting all of AEDC’s business areas – it also now reaches off base as well, according to Baxter.

“We’re the only technology development branch in the test enterprise, so there’s not any equivalent organization to what we do anywhere else in the T&E (test and evaluation) community,” he said. “We actually do reimbursable work for Edwards and for Eglin [Air Force bases] as well, providing support there and also support to NASA. We have a cooperative agreement with NASA where we share our test technology developments with their test technology development organization to try and make sure that we’re capturing as much value as possible from our national investments.”

Since the Technology Branch supports all AEDC test areas, the list of projects it has contributed to is exhaustive, from measuring emissions during alternative fuels testing to the Non-contact Stress Measurement System (NSMS) that is used routinely for customers who have concerns about monitoring the structure of their rotating machinery. In support of aeropropulsion system testing, Technology is investigating methods of altering the airflow into turbine engines to better reflect not only pressure variations but also swirl, temperature and turbulence.

“We have a number of noninvasive diagnostic techniques, BOS [Background Oriented Schlieren] being one, particle imaging velocimetry, particle Doppler velocimetry and flow visualization – just using laser sheets and particulates in the flow to visualize flow structures – all of which have seen a lot of use in the wind tunnel area and in the Space area,” Dr. Jones said. “We have done a lot to develop the C-COSE [Combined Characterization of Orbital Space Effects] Chamber, which represents a whole new test technique for evaluating space effects on satellites. It was in essence the progenitor to STAT [Space Threat Assessment Testbed].”

In addition, CFD skills are being applied to evaluating store separation testing using the B-52 model currently being built in the Model Shop. Technology has also given considerable support to the Aerodynamic and Propulsion Test Unit (APTU) over the years with facility and control system modeling.

“We have a group, the Facility Systems Analysis Team (FSAT), that is dedicated to facility analysis and they have supported everything from currently looking at the swirler issue over in the CAH (Combustion Air Heater) in APTU and a whole raft of facility analysis-related issues,” Dr. Jones said.

Baxter, who has been chief of the Test Technology Branch for more than two years, has made an effort to shape the role and mission of technology to establish more identity within the branch.

“[I want] to really help folks understand who they are as members of the Technology Branch and then also to communicate to the rest of the center who we are, what we do and why we matter,” Baxter said. “Forming that identity and really bringing together the team that we have – both government and contractor – has been a lot of hard work. I’m just really proud of this organization – where they are now, and the role they have played throughout the history of the center. Much of technical leadership, both on the contractor and the government side, has worked at some point in their careers in the technology development organization.”

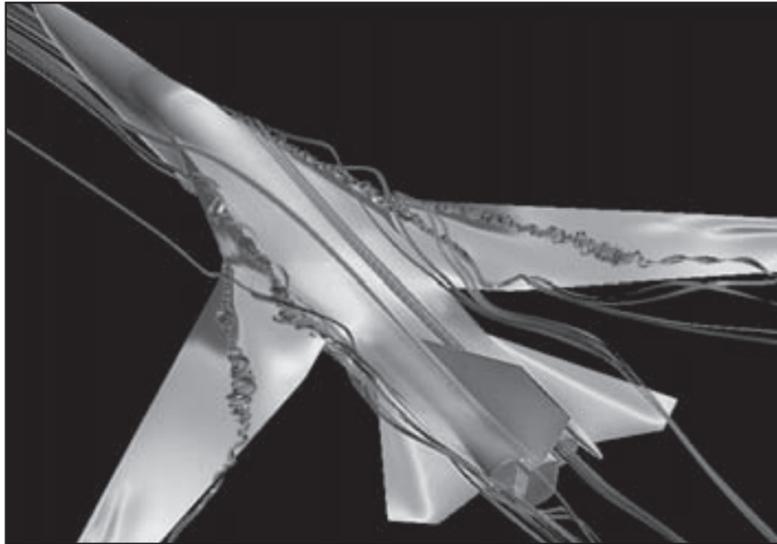
Baxter listed ATA General Manager Dr. David Elrod; Tom Best, who recently retired as director of engineering and technical management; Tom Fetterhoff, technical director in the Test Division; Dr. Charlie Vining, technical director of the Turbine Engine Test Complex; and Jere Matty, deputy director of the Space and Missile Ground Test Complex, as just a few in AEDC leadership roles today who to have come through the Technology Branch.

“There’s a long history of, not only developing great technologies that we can deploy, but also having some really top quality technical personnel, some of whom remain here and are doing incredible technical work and others who’ve moved on to other organizations and into leadership positions,” Baxter said.

Experts outside of Technology appreciate what the branch does to support testing at AEDC. ATA Deputy Branch Manager of Space and Missiles Peter Montgomery said one of the greatest technical advances that have transformed ground testing of space and missile weapon systems has been in the area of computing.

“A lot of the early work that I did in my career was modeling and simulation and I dealt with a variety of types of models and simulations including CFD and lower level fidelity models as well,” he recalled. “Basic models and simulations, full CFD or whatever level you use in between, are fantastic tools. They can tell you a lot, but you have to ground their results in reality.

“That requires testing to really validate the information you’re getting



Computed flow field about the standard check model configuration. (File photo)

from the models, at least at several key points. Models and simulations always have limits. And when considering the theory behind them and the application for which they are used, you can’t really understand those limits well unless you have that test data that goes with it.”

Jere Matty, deputy director of Space and Missiles, who came to AEDC in 1981 as an Air Force lieutenant, agrees with his colleague’s assessment.

“What they have now that they didn’t have back then is high speed computing,” he said. “A slide rule won’t tell you the order of magnitude. You had to know, is the number I’m going to get in the hundreds or in the millions? You’ve got to know that before you start using the slide rule, but on a computer you [just] punch in the numbers.”

Matty said computer codes have advanced the science of ground testing immeasurably, but he also cautioned about their limitations.

“There are dynamics codes that look at structures, so you can model them completely,” he said. “You can look at how they change with temperature, pressure and all those things, but unless those codes are anchored with data somewhere, they’re just guessing.

“That’s the thing you do at a test facility. You never replace the codes, you anchor the codes.”

In a very real sense, the future and business outlook of the Test Technology Branch is tied to the overall future of AEDC. A dwindling Department of Defense (DOD) budget in recent years and the uncertainty of future budgets present challenges for the center, according to Dr. Jones.

“In a nutshell, I’ll say the future is still challenging just because the entire DOD future from a fiscal point of view is a challenge. Nonetheless, I’m still optimistic that we’ve got ... a lot of really smart people who understand testing and the things that will help make testing better,” Dr. Jones said. “I think we’ve got good relationships with the test complexes; we’ve got a strong relationship with our government counterpart, and I think all those things still point us to a bright future. I believe as long as testing goes on, we will continue to have a relevant role at AEDC.”

Baxter is even more optimistic. He said technology holds the keys to the future of AEDC.

“We have the ability, if we choose well and if we execute appropriately, to identify the changes that need to be made from a technical capability stand-

point and enable those before they’re needed to ensure that the center as a whole is relevant in the future,” Baxter said. “If we do our job right as the test work load ebbs and flows, we can be in a position to define the future and to identify those things where AEDC can have the impact in the future that it really should, that it was formed to have.

“I’m very, very optimistic about what we can do and the opportunity that we have to do it. We don’t have a lot of resources, certainly, from a financial standpoint, but that’s not unusual. We’ve been resource-limited for a lot of years, and the power of our intellectual capital is not necessarily bound by our financial resources.”

Meanwhile, the Test Technology Branch’s team of engineers, scientists, craft and support personnel will continue to provide expertise to develop, adapt and apply complex computational models, non-conventional diagnostic systems, advanced facility capabilities, test techniques and engineering-level facility models to address customer testing and AEDC facility infrastructure requirements. As testing goes, so goes the Technology Branch and the resources and analysis it provides to each of AEDC’s capabilities.

## ATA earns award fee score of 92

The Air Force announced an award fee rating of 92 for ATA for the period Oct. 1, 2010 through March 31, 2011.

The award fee determining official, Randall Culpepper, gave the company an excellent overall rating for its performance. ATA earned an excellent or very good in all 70 of the areas evaluated.

This is the last award

fee for ATA General Manager, Dr. David Elrod, who will be joining Jacobs Technology in Tullahoma.

“I am always impressed by the innovation, hard work, and dedicated service of the ATA team in fulfilling the mission of AEDC,” Elrod said.

ATA shares a half of a percent of the earned award fee with the eligible work force for each point

above 90. Employees will receive one percent of the award fee this time.

ATA was awarded the center support and testing contract on June 30, 2003. The operating contract is for up to 12 years and worth potentially \$2.7 billion. ATA currently employs 1,924 regular, full-time people from 15 Tennessee counties and four states.

**ENERGY** from page 1

without knowing how much you're using," said ATA energy program manager John McInturff. "It also lets us monitor the effects in a building if we make changes. For example, how much did it reduce if we change out the lighting or if we add a load into a building? It just lets us monitor and see."

Currently, the system is available only in the Power Control building. But soon, that data could be available to anyone on base with a new series of reports that breaks the data down into a readable format.

Steve Mayes, the team lead for Enterprise Warehouse Information Systems, and Carol Cox, the section manager of Enterprise Information Systems and Support, got together and came up with the idea for the system after looking over an energy conservation newsletter from ATA Deputy General Manager Steve Pearson. It contained energy graphs that were put together by employees in Power Control.

"The guys in Power Control did a great job putting together the consumption charts for Steve Pearson's energy newsletters," Mayes said. "Carol and I brainstormed about how we could help them out with our enterprise reporting tool. If we could get to the data, then we could develop energy consumption reports that would be readily available online with the click of a mouse.

"When we discussed the possibility with Mr. Pearson, he was excited about the possibilities and sponsored the effort to move forward. We also discussed the report concept with our Air Force Communications Branch counterparts and with the AEDC Civil Engineering community.

With their support and understanding of the benefits of this information, we obtained the necessary approvals to begin report development."

The software, Oracle Business Intelligence (OBI), is used to report information from multiple information systems at AEDC through the base's data warehouse. It has a wide variety of uses on base – and now it can be used to report energy usage.

"We pull the usage data into the data warehouse and report it any way that adds value to the center," Cox said. "You can manipulate the data in terms of how you display it, whether you look at summary-level information, detailed information and so on. By creating the energy usage reports, consumption and conservation measures become visible to the base population at a minimal cost."

With the software and data, energy reports can be generated to see how much power is used in buildings throughout the day. It's capable of getting the information every 15 minutes, but for the sake of keeping it simple it is currently monitored by the hour in the reports.

All of this was accomplished at no additional cost to the base, outside of the labor that went into setting up the reports in OBI.

"There was no additional cost," Mayes said. "It was just a question of priorities."

Cox said the reports have a potential for huge savings at AEDC, as the base moves toward more energy conservation projects.

"This will give us the ability to see a before and after shot of pre-conservation and post-conservation measures," she said. "For example, there is currently a project that's going to kick off pretty soon to install

new light panels in one of AEDC's existing buildings. By having the availability of the metered data using the old lights today, as soon as the new light panels are installed, we will be able to see if there's a decrease in the energy consumption in that building. So we can see right away if it saves money and whether it's something we should look at doing in other buildings."

There are still some hurdles to overcome. Because the meter system is transmitting on a wireless network, it is affected by weather conditions like heavy rain and cold weather. McInturff said depending on conditions, the time between readings may be from several hours to a couple of days.

"We'll have a big spike and the data kind of rolls all together," McInturff said. "That's the biggest issue right now. We're not getting the reliability on the readings that we would like."

The wireless meter network also is currently closed off from the rest of the base network for security reasons. Information is put into the OBI system from a hard copy. McInturff said options are being explored to beat these issues, including hard-wiring the meter network.

Whatever options are taken to deal with those issues, the data is still being collected. And with the OBI system, it will be around for a long time to help AEDC workers find ways to make the base more energy-efficient.

"They started collecting this data with these digital meters in October 2010, so that's our starting point," Mayes said. "Going forward, we'll be able to keep the data in our data warehouse for years. So two years from now, you'll

be able to go back and see what your energy consumption was in fiscal year '11

and fiscal year '12. And in fiscal year '20, you'll be able to go back and see for

the last five or 10 years what your energy consumption has been."

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## AEDC teams raise thousands of dollars for cancer research

By Shawn Jacobs  
*Aerospace Testing Alliance*

Two teams from AEDC, "Remember" and "Coins 4 a Cure," raised thousands of dollars when they participated in last month's Relay for Life.

The event, sponsored by the American Cancer Society, was held at the Coffee County Fairgrounds April 29.

The AEDC teams raised almost \$8,000 for cancer research, and overall the event raised around \$45,000.

Unlike last year, the weather cooperated, making this year's event a more pleasant experience for everyone, according to Dee Wolfe, base liaison with the Relay for Life committee and education training specialist at AEDC.

Teams got to the event early to set up several

fund-raising events, including bake sales, a bouncy house, whack-a-car and carnival-type games.

"The survivor lap and caregiver lap are emotional times for the participants," Wolfe said. "As cancer survivors circled the track, their friends, family and teammates were there to cheer them on."

At least three AEDC employees – Wolfe, Rick Ferrebee, chief of services in the Mission Support Division; and Bryan Larson, food and beverage manager at the Arnold Lakeside Center – participated in the survivor lap.

"I was so proud of all the people who participated in the Relay event, and I hope the base's participation in the event continues to grow each year," said Wolfe, who has headed up AEDC's participation since 2009.

AEDC's "Remember" team at the annual Relay for Life April 29 consisted of Scott Tucker, Amber Wolfe, Shawn Wolfe, Dee Wolfe, Danita Harvey, Tanya Haggard, Donna Paredez, Bryan Larson, Rick Ferrebee and Kathy Swanson. (Photo provided)



The "Coins for a Cure" team from AEDC helped raise money for the American Cancer Society at the Relay for Life April 29 at the Coffee County Fairgrounds. Pictured are (1st row) Heather Fair, Tech Sgt. John Bankston, (2nd row) Douglas Yurcik, Lt. Col. Regina Goff, Kandi Pearson, Rhonda Ward, Staff Sgt. Shana Lodge, William Gonce, Melissa Warren, (3rd row) Cody Hodge, Dan Wyman. (Photo provided)



# ATA

## Overall Team Member of the Quarter

The overall team member for the quarter is Daryl J. VanCise. VanCise, assistant chief for fire prevention with AEDC's fire department, was recognized for his excellence in planning, directing and coordinating all activities of the technical services program. He was also recognized for collecting, analyzing and presenting key information used to quantify fire risk severity and probability in 17 mission-critical test and test support facilities.

VanCise also manipulated the Air Force Material Command Enterprise Information System to create a Fire and Emergency Services (FES) website that has become an invaluable management and operational tool for every member of FES.



**VanCise**

## Overall Craft Member of the Quarter

The overall craft member for the quarter is Kendall Layne. Layne serves as the alarm administrator and as a desk/field lead within the Base Defense Operations Center (BDOC) and Emergency Control Center (ECC).

Layne's attention to detail has created an environment of virtually error-free alarm and camera capability through his maintenance and troubleshooting ability for alarm systems and cameras on base.

Layne also coordinated with both on- and off-duty Arnold Police officers during the Estill Springs tornado in the search for two missing persons, even though he had just been relieved of duty for the day.



**Layne**



**Nita Hargrove  
Team Member  
Facilities Operations and  
Maintenance**

Hargrove, technical specialist, was recognized for maintaining and updating all operations and maintenance work instructions for the mechanical section of various plant and utility areas.



**Leon Yoder  
Team Member  
Facilities Operations and  
Maintenance**

Yoder, electrical engineer, was recognized for setting a high standard for himself and his willingness to share wisdom and knowledge with the young engineers who work with him.



**Michael Malloy  
Team Member  
Project and Design  
Engineering**

Malloy, mechanical design engineer, was recognized for taking the lead design engineering responsibilities for refurbishing several old valves in his first year as a design engineer.



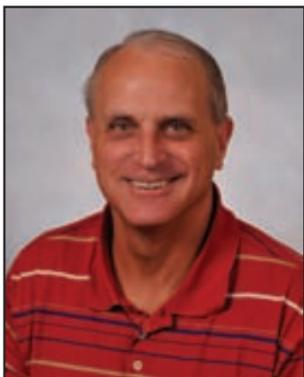
**Gayle Wasson  
Team Member  
Information Technology and  
Systems**

Wasson, administrative professional, was recognized for making significant changes to her work schedule and multitasking abilities to help maintain stability for other co-workers.



**Moufid Aboulmouna  
Team Member  
Integrated Test and  
Evaluation**

Aboulmouna, engineer, was recognized for using computational fluid dynamics calculations to determine whether a small-scale model would represent the aerodynamics of a full-scale version.



**Sherman Nelson  
Team Member  
Integrated Test and  
Evaluation**

Nelson, engineer/scientist, was recognized for his leadership on a missile project that can be used to supplement – and in some cases, reduce – live-fire testing of sensor and weapons systems.



**Don Cornelius  
Team Member  
Resource Provisioning**

Cornelius, commodity specialist, was recognized for cleaning up a significant backlog of new inventory requests, pricing errors and just about anything else dealing with inventory record accuracy.



**Matthew Wilson  
Team Member  
Performance Management**

Wilson, administrative professional, was recognized for his tireless involvement on the Beyond Zero leadership team since its inception, including crafting scenarios that challenged supervisors.



**Alvin Cleek  
Craft Team Member  
Facilities Operations and  
Maintenance**

Cleek, iron worker, was recognized for his unique ability to think jobs through with a continuous improvement mindset and develop better methods to complete tasks safer and more efficiently.



**Clarence Rogers  
Craft Team Member  
Integrated Test and  
Evaluation**

Rogers, outside machinist, was recognized for his knowledge of the J-6 test cell and associated systems, which results in timely resolution of problems that come up in preparing for a test.



**Robert Reed  
Craft Team Member  
Resource Provisioning**

Reed, chauffeur, was recognized for his safety awareness and always thinking of other employees' safety, including clearing snow from walkways in January.



**Jason Waller  
Craft Team Member  
Integrated Test and  
Evaluation**

Waller, electrician, was recognized for his ability to track down electrical problem areas, as well as his abilities to fix problems and make processes more efficient and safe.



**Marty Land  
Craft Team Member  
Information Technology and  
Systems**

Land, computer hardware technician, was recognized for developing a new preventive maintenance procedure to help extend the life of digital printing and imaging devices.



**Scott Conrad  
Craft Team Member  
Information Technology and  
Systems**

Conrad, instrument technician, was recognized for significant contributions to ensuring PMEL met certification requirements from AFMETCAL's Laboratory Certification Branch.



**Brad Tucker  
Craft Team Member  
Facilities Operations and  
Maintenance**

Tucker, temporary working foreman, was recognized for his work on two large-diameter valve repair and refurbishment jobs, as well as his communications skills and commitment to quality work.



**David Schwer  
Customer Service – External  
Integrated Test and  
Evaluation**

Schwer, project engineer, was recognized for developing new dynamic test techniques that led to a successful test outcome and a satisfied customer.



**Randy Nicholson  
Customer Service – External  
Integrated Test and  
Evaluation**

Nicholson was recognized for his technical leadership in addressing the development and proofing of new Space Chamber test capabilities.



**Letha McEntee  
Customer Service – Internal  
Safety and Health**

McEntee, industrial hygienist, was recognized for having a friendly attitude and going above and beyond to make sure her customers are taken care of quickly.



**Bill Cox  
Customer Service – Internal  
Performance Management**

Cox, engineer/scientist, was recognized for establishing and delivering effective corrective action in response to found opportunities for process improvement.



# Government



**Master Sgt. Michael C. Arena**  
Senior Non-Commissioned  
Officer-in-Charge

Sergeant Arena, medical aid station chief, was recognized for delivering superior base-level medical services, overseeing certification of tests in water contamination recovery and supporting on-base organizations and off-base charities.



**Tech Sgt. John Bankston**  
Non-Commissioned Officer-  
in-Charge

Sergeant Bankston, financial services, was recognized for stepping up as Deputy Disbursing Officer and leading a three-man Financial Services Office team that resolved 280 tasks within a day of receiving them.



**1st Lt. Jason Lackey**  
Honor Guard Member

Lieutenant Lackey distinguished himself by performing flawlessly in more than 90 percent of all honor guard details from Jan. 2011-March 2011.



**Capt. Brandon P. Herndon**  
Company Grade Officer

Captain Herndon, flight systems test manager, was recognized for his work with the Wind Tunnel A return-to-service team, guiding Tunnel B tests for the Standard Missile-3 test and supporting Small Diameter Bomb II testing.



**Dhruti Upender**  
Civilian of the Quarter  
Scientist/Engineer

Upender, aerospace engineer, was recognized for expertly managing the \$25 million Small Business Innovation Research program during AFMC-mandated changes to the current program cycle.



**Sue Sipe**  
Civilian of the Quarter  
Clerical/Technical Support

Sipe, PK secretary, was recognized for her enthusiasm and professionalism in welcoming visitors and customers, as well as her impeccable administrative support in records management.



**Jackey Gates**  
Civilian of the Quarter  
Administrative

Gates, military personnel specialist, was recognized for streamlining procedures in her duty area, effectively presenting evaluation statistics and resolving issues concerning processes.



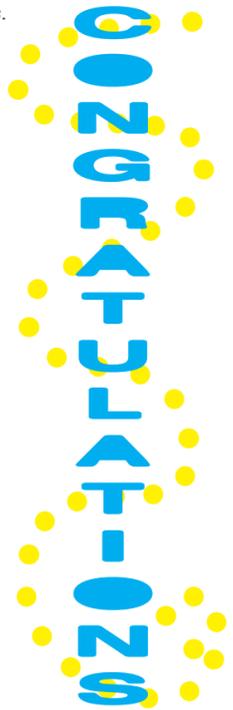
**Ron Stephenson**  
Services Employee of the  
Quarter

Stephenson, supervisory fitness and sports specialist, was recognized for utilizing equipment and programs to meet demands at various base facilities.



**Serena Hopkins**  
Services Employee of the  
Quarter

Hopkins, custodial worker, was recognized for tackling tasks before being asked, including taking on an additional workload to help keep the Fitness Center clean.



## Ward wins People's Choice Award

Rhonda Ward received the William M. Dunne People's Choice Award for the first quarter.

Ward, a civilian pay customer support representative in AEDC's Plans and Programs Analysis Division, received the award for her innovative, well-coordinated and mission-focused support in managing payroll operations for more than 300 government civilians at AEDC.

Ward was recognized for going above and beyond her normal duties to research civilian pay audit results from other bases to ensure AEDC is compliant

and providing the best possible customer service to all government civilians.

She consistently works beyond her duty day to ensure the pay file is received by Defense Finance and Accounting Service prior to leaving.

She was recognized for being proactive in identifying pay record problems and ensuring that all base civilians are paid timely and accurately.

Ward also was recognized for being a go-to individual who is quick to volunteer or assist when an additional task comes up within her section.

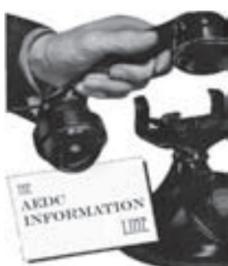


**Ward**

As the Federal Women's Program manager, Ward coordinated a guest speaker and a luncheon for the benefit of all AEDC members.

# 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.



# Recovering from Disaster

On April 27, the southeastern United States saw the worst outbreak of tornadoes since the 1970s. Once the skies cleared, there were AEDC employees who needed help – and others ready to do their part helping them and others



Warren Mullinax and his son Greg look through what is left of the Bridgeport, Ala., home where Mullinax lived with his wife and two daughters. A tornado hit the house April 27. Mullinax, pictured below on the job in APTU, says the generosity of his co-workers has helped his family get through a difficult time in their lives. (Photo above provided; photo below by Rick Goodfriend)

## ATA worker thankful for help after tornado

By Patrick Ary  
*Aerospace Testing Alliance*

Two weeks later, Warren Mullinax can sit in the APTU control room and talk about what happened leading up to when his home in Alabama was destroyed by a devastating tornado April 27.

He can even smile a little bit when he talks about his one daughter's desire to find her Shrek doll – because of the \$15 stashed inside of it – and finding furniture from other people's homes sitting where his living room used to be.

There are two subjects

that force him to pause and compose himself before talking again. One of them is the antique furniture passed down in the family that is now gone.

"I can live without it, but it's hard for my brothers that it's all gone," he said. "I don't know that I had to do it, but I apologized to them that it's all gone."

The other subject is the support that he's received from his community and from co-workers at AEDC.

"The base went into emergency mode for me," Mullinax said. "I've had money sent to me. I've had offers of a house to stay in.



I've even had a guy offer me a car because he knew all my vehicles were destroyed but one. And it was immediate action; it was not delayed from anybody I know."

Mullinax was doing his duty as a working foreman in APTU the day dozens of deadly tornadoes swept through the southeast in the worst outbreak the U.S. has seen since 1974's "Super

Outbreak." He had been talking with his wife Robyn throughout the day. The last time they spoke by phone was around 3:30 p.m. After that phone call, he wasn't able to get through to her.

An hour and a half after that, a tornado swept through their neighborhood of Bridgeport, located in the northeast corner of Alabama. Mullinax headed

home, hoping for the best.

"When I came off Monteagle Mountain it was kind of clear, and I thought maybe it missed us," he said. "And the closer I got the more devastation I saw. Then I parked about a mile and a half from where I live. They wouldn't let me in any farther because of trees down across the road. I just had to run the rest of the way."

When he got to where the house he shared with his wife and two daughters, ages 10 and 12, he saw that the building had been leveled down to the foundation.

Fortunately, all of his family – which had been barricaded in a central hallway with a mattress over their heads – had run out of the home at the last minute

and crawled into a crawlspace underneath the house. A friend who had been at the house had saved them.

"He walked out on the front porch and saw the actual tornado coming at them out of the southwest," Mullinax said. "He ran back into the house and grabbed them and said 'we have to get out of this house.' They ran around and they went into the crawlspace. They said they were there no more than 10 or 15 seconds when the tornado hit."

Where their house once stood was nothing but toppled bricks and splintered wood. A Ford Escort that had been by the house was sitting smashed in a treeline 50 yards away. The tornado

See **MULLINAX**, page 12

## Employee's family affected by storms

*Parents' home destroyed while family was at the hospital*

By Shawn Jacobs  
*Aerospace Testing Alliance*

A number of AEDC employees have some sort of connection to the April 27 tornadoes and storms that roared through the Southeast.

Many workers either sustained damage, know someone who did or volunteered in the cleanup efforts. Such is the case with Stephen Arnold, a hydrogeologist with ATA Restoration, whose parents' home on the outskirts of Athens, Ala., about 20 miles west/northwest of Huntsville, was destroyed by a powerful tornado.

Arnold said his parents, Billy and Cynthia Arnold, were visiting his grandmother in a Huntsville hospital, so no one was home when the storm hit. He said they were aware of the storms, but they did not know their house was affected until they returned. "When they came back,



The home of Billy and Cynthia Arnold near Athens, Ala., was reduced to a pile of rubble by an April 27 tornado. The left side of the photo shows the walls of an interior half bathroom, thought to be the safest room in the house in the event of a tornado. The Arnolds' son, Stephen, is an ATA hydrogeologist at AEDC. (Photo provided)

that's when they saw the neighborhood pretty much totaled, and their house was totaled," Arnold said. "Nobody in the neighborhood died or was injured, thank goodness.

"The nearest fatality, we think, was [about] four miles away in East Limestone County. Of course,

there were deaths all over. This was a tornado that looked like it started down in Hamilton, Ala., and ended near Hazel Green. It was about a 100 mile long path of destruction and about a mile wide swath of destruction, so they were right in the heart of it."

Oddly enough, the room

Arnold's parents thought was the safest place in the house was also destroyed.

"It was the interior most half bathroom, up against the interior hallway," Arnold said. "That ended up being a horrible place to be."

See **FAMILY**, page 14

## Base employees head south to help

By Philip Lorenz III  
*Aerospace Testing Alliance*

When tornadoes recently ravaged the mid-South, including rural and urban areas of Alabama, members of AEDC's work force stepped up to help and "pay it forward."

Tawana Gardner, an ATA project manager at the Space and Missiles Branch, is from Birmingham, Ala.

"The church that I used to go to is on Facebook and so I could see where they needed help and some of the supplies and items that they needed," she said. "I knew I wanted to go down anyway, but that made it easier for me because I knew where to go. I was stationed in a tent handing out essential items to the victims of the tornadoes."

For Gardner, the storm's impact was personal.

"My mom lives on one side of the interstate and it actually touched down on the other side," she said. "So, I didn't realize how close it was until I got there."

For Der'Ivan Kelly, an

ATA instrumentation and controls engineer at VKF, the tornado and its aftermath was something he also took personally.

"I grew up in Birmingham and went to college in Nashville and it hasn't been home for quite awhile, but home is where the heart is," he said. "The neighborhoods that were impacted were the neighborhoods that I grew up in, [the streets] that I walked on, rode my bikes on.

"And I knew that one of my best friends' parents got displaced from the storm damage and some friends who were in the neighborhood, their houses were totally gone. I just wanted to go home and help as best I could."

Kelly solicited donations from others on base, took them, directly, to an elementary school and helped to distribute everyday essentials like food and clothing to storm victims.

The church attended by Kelly's mother was destroyed by the storm.

2nd Lt. Brad Chronister, a project manager in AEDC's Investments Branch, didn't hesitate when a co-worker, Artious Walker, an engineering co-op student, asked for help in distributing needed supplies to storm victims in another part of Alabama.

"He had rented a truck

See **HELP**, page 14

# Life and career reflections

## People close to outgoing ATA General Manager Dr. David Elrod share their memories

By Philip Lorenz III  
Aerospace Testing Alliance

When ATA General Manager Dr. David Elrod recently announced his upcoming retirement from AEDC after a career spanning more than 33 years, friends and coworkers took the opportunity to share their thoughts and memories of him.

Heard Lowry, ATA technical fellow for space sensors, and Dr. Elrod both attended David Lipscomb College in Nashville. During their undergraduate years, Dr. Elrod was a lab assistant when Lowry taught a lab there one summer.

However, their first really memorable encounter took place under different circumstances. Looking back, Lowry said that chance meeting almost seemed like a harbinger of what was to follow when they became colleagues and personal friends.

"He helped me when my car failed," Lowry recalled. "I had to drive from Manchester and I didn't quite make it. That's kind of my first real memory of him."

Dr. Elrod came to AEDC in 1979, shortly after Lowry had joined the work force here.

Soon after Lowry moved in the Mark I building, the two men began working together on a project which began in 1989.

"We started working together on space projects and eventually we had a scene projection system called the Direct Write Scene Generation Test Capability, which went on for several years," Lowry said. "That was a multi-year program and it was Central Test and Evaluation Investment Program (CTEIP) Program and he became the manager of that. So, we claim that we are the reason he went to the top."

"But seriously, he did show all the skills necessary to manage the program. Then he went to school as well to further himself in the engineering management areas.

"So, we've known each other for a long time. We are fellow alumni, which is a connection, and we go to church together – so, we've been close for a long time."

Lowry said Dr. Elrod

met his future wife while they were both students at Lipscomb College, and later she also worked at AEDC as a computer programmer.

"David met Linda at David Lipscomb College, where her father was the head of the math department," he said. "Their son John is also a student at Lipscomb."

Lowry also saw another side of his friend and colleague.

"We hiked on the Appalachian Trail quite a few times with some others, so we had camping experiences as well," he said, adding that Dr. Elrod kept things lively and the outings were fun.

Lowry said even though hiking and camping trips were enjoyable, Dr. Elrod didn't leave things to chance, that careful planning was as much a part of his personal life as it was in his professional life.

"When you're camping out in the middle of nowhere, you tend to depend on each other, and he would like to have everything precisely organized," Lowry said. "If anything went wrong, we'd give him grief about it and he maintained his cool. He bore up under that pressure. That was probably another great training experience for management."

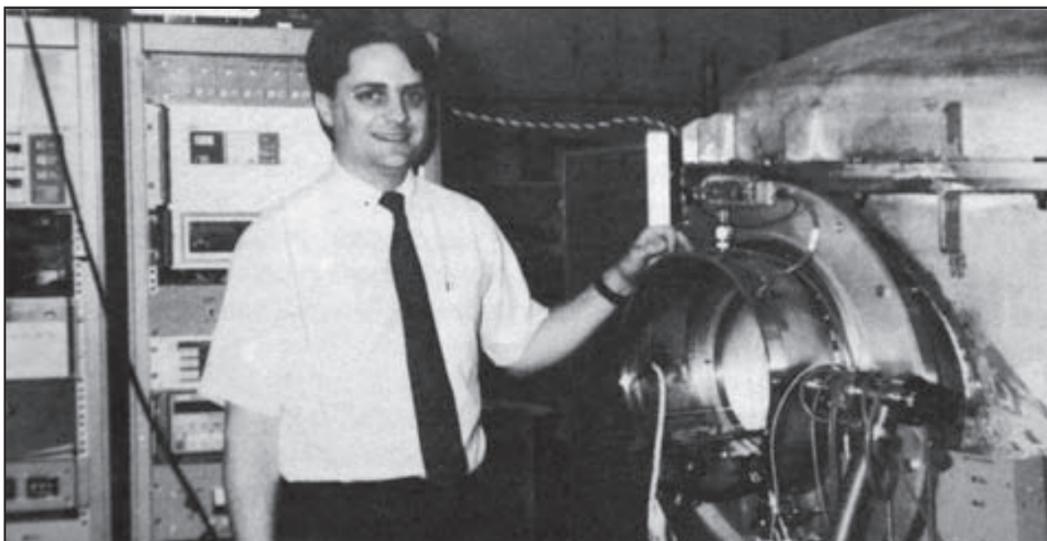
Lowry said Dr. Elrod was equally capable, whether working physics challenges with scene generation in space chambers or dealing with complex upper level management issues.

When asked about Dr. Elrod's legacy, Lowry said, "I think a sincere and stable management approach. I just see him as a very solid, capable manager and I think people have learned to trust him."

He called Dr. Elrod's calmness under pressure "amazing."

Lowry said, "He has that ability to calm down and think and say something that's not reactionary or inflammatory. He just tries to settle out the differences and come up with a plan."

In 1978, Dr. Ralph Jones, manager for the technology and analysis branch within ATA Integrated Test and



In 1989, David Elrod was AEDC's first Technical Achievement Award recipient for his work generating complex scenes in ground-based space test facilities. (AEDC file photo)



Evaluation Department, came to AEDC as he was finishing his doctorate.

As Sverdrup and Calspan, the support contractors for testing, merged at AEDC in the mid-1990s, Dr. Elrod became Dr. Jones' immediate manager.

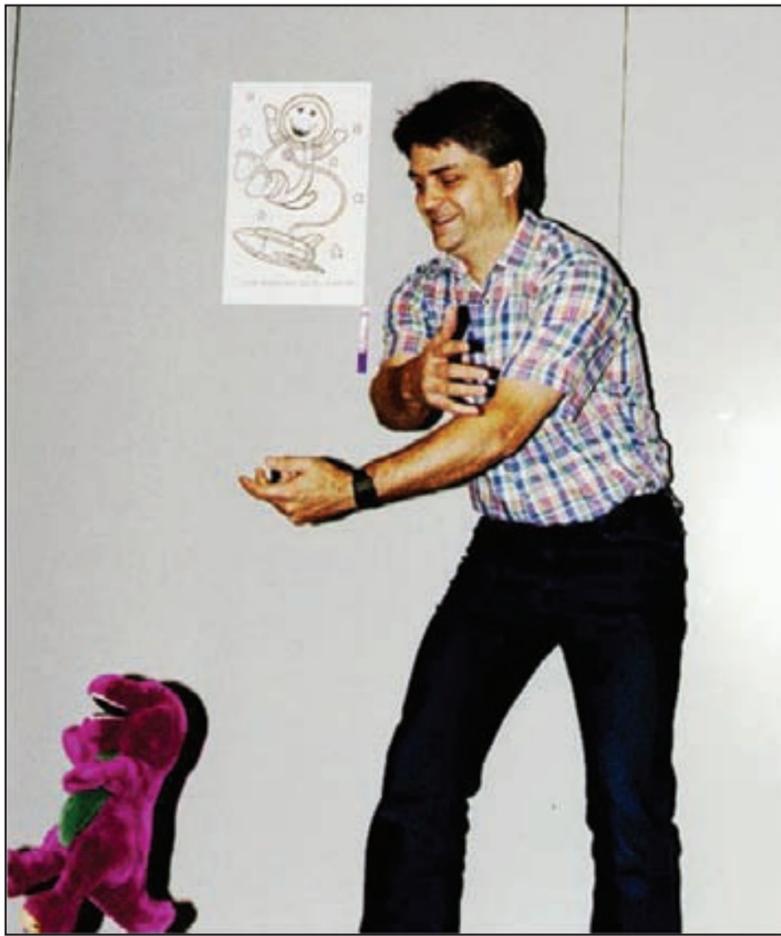
"He [Dr. Elrod] actively seeks the input of others, very carefully and deliberately considers it and has no qualms about incorporating all of those recommendations into his actions. He seems to have a knack for drawing the best from his staff.

"One thing that has always impressed me about David is that he thinks logically through issues and problems, challenges that face him. He genuinely solicits and respects the inputs of others and helps you to understand from his perspective how your inputs are relevant or appropriate or perhaps how they are not, how they don't fit in. But he does have the ability to be compassionate and diplomatic so even when you're wrong you come away feeling about it because someone has looked at it and given you objective and honest inputs."

Dr. Jones said when all is said and done; Dr. Elrod's legacy is "compassionate and trusted leadership."

Chip Stepanek, director of ATA's Performance Management Group, has known Dr. Elrod for about 20 years, and they have become close friends during that time. They first met when Stepanek moved into the Technology Branch, of which Dr. Elrod was deputy director.

"I remember one conversation that he and I had was [when] he encouraged me to go back to school to pursue a degree in engineering management,"



Dr. Elrod takes part in a caption contest in 1995. (AEDC file photo)

Stepanek said.

Dr. Elrod has made at least a couple of other career suggestions to Stepanek over the years, which has led to his current position in Performance Management.

"Along the way he recognized and pointed me in directions, and I suppose he does that with a lot of people," Stepanek continued. "I know that he has mentored a lot of people from a leadership development perspective."

Stepanek said Dr. Elrod has always seemed to have unique vision that has served ATA and its employees well.

"When there are budget cuts or ... work load shifts and we have to face making changes, it'll be clear that he has the best interest of AEDC in mind and he'll protect against any knee-jerk reaction," Stepanek said. "I think that's where AEDC has benefited from his vision for the center. He knows what's important and he'll help guard against making too abrupt changes that might threaten the long-term viability of the center."

Stepanek said that calm,

reflective management style may be Dr. Elrod's greatest legacy at AEDC.

"I think his influence on AEDC will persist long beyond his physical presence here as he moves downtown," he said. "He has left a team of current leaders and future leaders pointed in the right direction and practicing the right approach to managing a company that will long be in place."

"Of all those things that are easy to notice about David, I have noticed most his leadership by principles. I think we've all been the benefit of that. Many employees may never really know about how much he has done on their behalf in the decisions he makes, whether it's about a benefits program or just consistently treating people right."

Glenda Partin came to AEDC in 1979 to work for the contractor, Sverdrup, and then began working with Dr. Elrod in the mid-1980s while with Calspan when she first began her award fee administering duties.

An award fee presentation is a self assessment that the contractor gives every six months to the Air Force – like someone giving themselves a grade for their performance.

"Dr. Bill Davis was Calspan's general manager and Jim Patterson was the deputy," she recalled. "They invited David as part of the management group to come in and help 'wordsmith' [the award fee presentation].

What made the difference and still resonates years later for Partin is how David was always the consummate professional and gentleman.

She said Dr. Elrod had a special ability to make

everyone feel like their work counted and that he personally appreciated their contributions.

"It's a personal thing," she said. "He's so gracious, kind and compassionate. He genuinely cares."

Partin keeps a stack of handwritten notes from Dr. Elrod, each one thanking her for the work she did on another award fee presentation.

"He does have confidence and trust that the quality of his briefings is always there," she said. "Not only in me [but] everybody that he works with... he trusts to get things done right. Every time we had an award fee briefing, if I wasn't in my office, he'd leave me a note which I've collected over the years because that's the type of person he is... grateful for your support in helping to make AEDC the best place to work."

Dr. Elrod also serves as a senior vice president for Jacobs Technology.

He was appointed general manager when ATA became the major contractor at AEDC in 2003. Prior to that, in 2000, he was appointed to general manager of Sverdrup's AEDC Group and deputy general manager in 1997.

Before joining Sverdrup in 1995, Elrod was manager of the Applied Technology Program for Micro Craft Technology at AEDC where he was responsible for the planning, advocacy and execution of the Aerodynamics Technology Program.

In 2008, Dr. Elrod was honored as an AEDC Fellow.

Upon retiring from AEDC, Dr. Elrod will transition to senior vice president of business development at Jacobs Technology in Tullahoma.

## On Memorial Day, take a lesson from the Old Guard

By Gen. Donald Hoffman  
AFMC Commander

**W R I G H T - PATTERSON AIR FORCE BASE, Ohio** – The exact origins of Memorial Day, originally called Decoration Day, are not known.

It was officially proclaimed on May 5, 1868, by Gen. John Logan, national commander of the Grand Army of the Republic, that a day should be observed nationwide as a ritual of remembrance and reconciliation.

That first observation took place May 30th of the same year.

In those days, Memorial Day was intended to honor the fallen soldiers of the American Civil War, but it was expanded after World War I to honor all Americans who had died in military service.

Over the years, more than one million American Soldiers, Sailors, Coast Guardsmen, Marines and Airmen

have given their lives in defense of our great nation.

That number continues to grow; we are still losing Americans in combat today. Certainly they all deserve to be remembered ... and honored.

For many Americans, Memorial Day has become simply another three-day weekend or the unofficial kick-off to summer.

But there are observances that retain the spirit of the ritual Gen-

eral Logan had in mind.

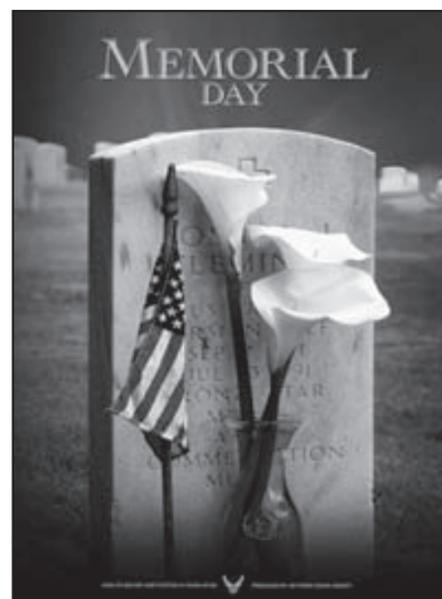
For more than 60 years, just prior to Memorial Day weekend, the 3rd U.S. Infantry – The Old Guard – has honored our fallen heroes by placing an American flag in front of the grave marker of every service member buried at both Arlington National Cemetery and the U.S. Soldiers' and Airmen's Home National Cemetery.

As part of this yearly activity, Old Guard soldiers remain in the cem-

eteries throughout the weekend, ensuring that a flag remains standing at each gravestone.

While I appreciate a day away from the office and an opportunity for a backyard barbecue, I encourage us all to think more like the Old Guard and General Logan.

I plan to stop wherever I am and whatever I'm doing on Memorial Day at 3 p.m. for the National Moment of Remembrance. I hope you will do the same.



## Tornado Damage



A car that once was parked next to Warren Mullinax's home in Bridgeport, Ala., was found sitting in a row of trees 50 yards away after a tornado destroyed his family's home April 27. Even though his home was leveled, no one in his family was injured. (Photo provided)

### MULLINAX from page 9

had even torn a neighbor's mobile home to shreds and left the steel frame sitting where their garage was, twisted like a giant pretzel.

"It was gut-wrenching," Mullinax said. "When I saw the devastation – I mean, anybody that has a family and loves their family knows about how I felt."

Mullinax took about a week and a half off from work to salvage their personal belongings from the home. Now in the afternoons when he leaves AEDC, he heads back out to the site to continue cleaning up.

Along with salvaging items like photographs, clothing and some pots and pans from the wreckage, Mullinax has found more evidence of how strong the storms that day were. Along with the furniture in his house that wasn't theirs, he has found items like car titles from as far away as Cullman, Ala. – which is about 95 miles from Bridgeport. He jokes about some of the odd and amazing things that the tornado left on his property, because it helps ease the pain.

"The neighbor across the road, his freezer was leaning up against a green car in our side yard," Mullinax said. "I looked at him and told him 'I'm fixing to call the police and have you arrested for throwing trash in my yard.'"

Also helping to ease the pain is the amount of support Mullinax says he and his family have received. He has only good things to say about Bridgeport's fire department, community churches and his co-workers at AEDC. They were able to get clothes, meals and other assistance to help them get back on their feet immediately after the disaster. A veterinarian

even took care of the family dog – which was found after the storm with a shattered leg – free of charge.

"It hasn't just been from my co-workers," he said. "It's been from the lead engineers to test engineers to everybody. Everybody has contributed clothes or money or something. It's not just been from my fellow workers. It's been everywhere from Dr. Elrod down, and I can't say how much I appreciate it."

Wade Rogers, Mullinax's supervisor, says as soon as everyone heard the news they wanted to do something. Two days after the storm they drove down to Bridgeport to take him money they had gathered. Rogers said Mullinax – known by his co-workers as "Mule" because of his size – has a big heart to go with his big frame, and that's why everyone felt the urge to help him.

"A lot of the craft people here have a long-term relationship," Rogers said. "A lot of them have either been here a long time or have worked together on other jobs. They know each other personally on a long-term basis. A lot of them know each other's families. It's more than just seeing somebody at work. It makes you feel good to know that people step up and they care."

For the first four days after the storm, the Mullinax family stayed at a friend's home. Soon after, they moved into a home in Bridgeport that another AEDC employee had on the market to sell.

The level of generosity is not lost on Mullinax, who felt compelled to help others even though he had plenty of his own problems to deal with. Within two days of the tornado, he had washed all

of the clothing he found at his home that he couldn't wear anymore – and he dropped it off for distribution at a National Guard armory. He says it didn't feel right to take things his family needed when others were suffering as well.

"We can afford to go out and buy a pair of blue jeans and a T-shirt and a pair of shoes and things like that," he said. "I'm over here working on my property, being paid because I have vacation. There are people down there working on their property and they don't have anything. They're not getting paid a dime."

Another major hurdle has been explaining what happened to his daughters. Mullinax and his wife have tried to keep them calm by making sure they have other places to spend time other than the wreckage that was once their house. He said the girls have asked why it happened. He tells them God has intentions for them to do something in life that they haven't fulfilled yet.

"They're coming out of their childhood and will be teenagers soon, and they have their own thinking of what's right and what is wrong," he said. "You just have to sit down and explain it to them."

Insurance adjustors are helping the family. Mullinax said soon they will be able to move temporary housing onto their property, so they can be closer to the work they need to get done. He expects it will take more than a year for his family to get settled back into a new home (complete with a storm cellar), with new furniture, – and new memories to make.

"It's just material," Mullinax said. "The family's alive, and that's what means the most."

**HELP** from page 9

and begun collecting donations from his office and would need some help taking food, gas, water and clothes down to Huntsville," the lieutenant said. "Artious told me he had been down to Huntsville already and said our time might be better spent driving to Tuscaloosa instead.

"We had some cash donations, some clothes and a lot of water. I took about \$100 to Goodwill to buy some more clothes with Lt. Drew Miller, whom I told about the plan the day before."

The trip to Goodwill, which ended up requiring two trucks and four volunteers, paid off in more ways than they had anticipated.

"Once people in the store heard what we were doing, shoppers and workers started giving us money out of their pocket to help out," Lieutenant Chronister said. "The store gave us half off everything as well as several containers of new donations that hadn't been

tagged. Out of their generosity we ended up turning that \$100 into about \$1,500 to \$2,000 worth of clothes and ended up having to take my truck as well because of space constraints."

After dropping off the donations at a Tuscaloosa church serving as a distribution center, the two lieutenants and the co-op students went out to try and help.

"The devastation was more than I expected," Lieutenant Chronister said. "There were concrete slabs left where houses used to be, 100-year-old trees broken off at the trunk and cars tossed all over the place. There was a 6 p.m. curfew enforced by the National Guard in effect to prevent any possible looting. This didn't go as well for Lieutenant Miller and me since we had to drive back that night we only got to help one household unload some belongings into a storage unit."

Lieutenant Chronister

credits Walker for initiating the effort to help others in need.

"Artious and another co-op [student] named Drew Owens stayed overnight and apparently got to get their hands dirty the next day," he said. "It was really amazing how much people truly want to help as soon as one person gets the ball rolling. I probably wouldn't have been involved if not for Artious coming to me, which in turn brought Drew Miller on board and got all the people over at Goodwill involved as well.

"As a military member I have seen plenty of examples of leadership in action, but to see its effects in a completely organic environment really showed me how much influence one motivated person can have on a situation."

Seeing the destruction first hand left a powerful impression on the volunteers.

"This experience taught me how to truly be grateful

for what God has given us," said Walker, who is a graduate student at Alabama A&M University. "I'm not simply talking about our cars or our homes. I'm talking about our lives because that same disaster area could have easily been located a little further towards the northeast.

"It also taught me that real heroes don't walk around with masks or capes. A hero is simply someone

who is presented with the opportunity to do the right thing and takes advantage of it – not for publicity, or money but because it is the right thing to do."

Walker pointed out that people from the PrayerNet, Investments and other departments gave significant donations of gas, food, clothes and money.

Gardner sent out an e-mail on AEDC's PrayerNet.

"I am sending out this

mail note because we take so many things for granted," she wrote. "It was heart breaking when someone would come up and specifically ask for items like soap, toothpaste or underwear. Be thankful for even the little things..."

Kelly plans to return to Birmingham when he can to continue the effort to return life to normal, a long process, but all part of paying it forward.

**FAMILY** from page 9

Arnold, of Manchester, said he and his two brothers, Darryl, of Huntsville, and Randy, who lives in Birmingham, and a couple of other relatives spent two days helping his parents remove undamaged belongings and keepsakes from the wreckage.

"It crushed the furniture, but inside the furniture we actually were able to recover a lot of keepsakes and fragile stuff," Arnold said. "Amazingly, we did recover most of the keepsakes. Even the scrapbooks – my mom had always kept those in plastic covers and everything – so they didn't get the rain damage.

"We had a lot of people coming and helping the

neighborhood. They had to go through security checks, but we always had plenty of drinks and food to eat and we even had bulldozer operators who came in and helped for free."

Arnold's father plans to remove everything from the site of the destroyed house.

"What they'll do is just bulldoze the whole site," Arnold said. "There will be no sign that home was ever there. They'll remove the driveway – everything, foundation – and probably will not rebuild there."

Arnold said his folks will probably look at their options before rebuilding. Since they are older they may choose to downsize, but that has not been de-

cided yet.

He said his parents have some friends who own a house in Athens that was not damaged and also a house in Florida.

"They are down in Florida, so their home in Athens has been available [for the Arnolds to live in] until they find a more permanent place to live," Arnold said.

Arnold said his grandmother's health is also improving. She had fallen out of bed two days prior to the storm and fractured her neck, but she is now in rehabilitation and expected to fully recover.

Ironically, what seemed like bad luck for her at the time, may have ended up saving all three people from injury or even death.

## Commander's Fit Tip: Need a change? Start with a measurement

By Col. Michael Panarisi  
AEDC Commander

If you've ever seen me at the gym, or on the track, you might have noticed I keep a lot of gadgets handy during a workout. Some might say I'm "fully instrumented."

Sure, I love gadgets. But more than that, I know that feedback is a critical part of our motivation. The gadgets provide that feedback in terms of effort level, energy expenditure, and most importantly, results.

But just like any tool, we have to use the right one for the right job. Even more importantly, we have to understand the "variability of the data" so we don't jump to the wrong conclusions.

With that in mind, let's explore some of the more common pitfalls to avoid should you decide to "wire up" for your next workout.

I once heard "if you really want to change behavior, you first have to measure it." This advice was not intended for a wide audience of fitness aficionados, but instead a group of budding national strategists. But the concept is important for fitness as well. So the question is, what should we measure, and more importantly, how and how often? Fortunately, there's plenty of advice out there, all dependent upon what you are trying to achieve. Woven throughout that long list however, is a common theme. "How often?" is the big question. In my opinion, too much may be just enough. Here's why.

No measurement is perfectly accurate, nor is anything you are going to measure stable in your body. Think of the kinds of things you can measure. Blood pressure, pulse, weight, strength ... all these can and do vary every day, and even throughout the day. So the "frequency" matters, particularly if you are looking for subtle changes.

The problem is, the more frequently you measure something, the more data you have to manage. The answer? Keep a log!

Let's say you'd like to

lower your body fat, along with your weight. It turns out that in this quest we face two very different challenges. Body fat is a relatively stable attribute, but the measurements turn out all over the map. Weight, on the other hand, is pretty easy to measure accurately, but it changes even during the course of a day.

To beat these foes, we need to measure often, and look not only at the values we record, but the "trends" they represent. It's the "trend" that offers the vital feedback we're after, not the absolute value of the measurements.

The problem is, we tend to do just the opposite. We might jump on the scale once a week, and "declare" success on some pretty spotty data. At the same time, we could be disappointed if we looked at a fat reading, only to learn the number went up.

The truth is we just can't rely on individual readings. We just have to put in the time and effort to get the data and look at it over time. Remember, your body responds to the challenges you put on it very slowly. The great adapting machine takes time. So give yourself the time and the data to make informed conclusions about your progress, and any changes you might need to make in your routine.

I jump on the scale every day, and at the same time of day every time (first thing out of bed!) Body fat? Same thing, every day for about a week, then I "leave it alone" for about a month, then every day for a week once again.

Blood pressure? You need several readings a day for a week or so to get real intel on what's going on there. And the list goes on. So if you really do want to make a change, get serious about the data and forget about individual readings.

Let the numbers tell the story over time, and in good time, you'll see the real changes right before your eyes!

## AEDC volunteers at Special Olympics



AEDC had 43 volunteers assist athletes in 2011 Area #13 Special Olympics games, along with more than 250 other volunteers from five area counties. More than 275 athletes participated in this year's track & field and bocce events April 29 at Tullahoma High School. Above, Janice Willis, a graphic illustrator with International Information Associates (IIa), celebrates with one of the athletes. 1st Lt. Rachael Clark, left, helps an athlete during the bocce event. (Photos by Rick Goodfriend)

## Arnold Golf Course (GC) 454-GOLF, 454-FOOD

Check us out on Facebook!

### Arnold Golf Course announces Customer Loyalty Program

Arnold Golf Course has established a new Customer Loyalty Program for golf advanced green fee players for the 2011 season. Purchase an annual green fee at Arnold Golf Course for 2011 and receive:

- 10 percent discount on Pro Shop merchandise
- 10 percent discount on cart rental
- 10 percent discount on Driving Range tokens
- 10 percent discount on food and beverage purchases at Mulligan's Coffee Bar & Grill

These discounts will be good during the 2011 season which runs through March 2012. This discount program is not to be used in conjunction with the Members First Plus discounts. Maximum discount allowed is 10 percent. Sale items and alcohol are not authorized for these discounts. Come by to purchase your annual green fee and get your card for a year of savings.

A **Member-Guest Tournament** has been scheduled for June 25-26 beginning with 8 a.m. shotgun start both days. The format is two-person scramble. Entry fee is \$125 per team and includes green fees, cart, food and prizes. Sign up in the Pro Shop by June 22.

## Arnold Lakeside Center (ALC) 454-3350

Fight Night at the ALC May 28 in The Landing! Come to watch **UFC 130: Edgar vs. Maynard** beginning at 8 p.m. Dinner special for the night is buffalo wings by the dozen for \$7.50 members and \$8.50 nonmembers.

**Chess Club** continues meeting on Thursdays in the Four Seasons Room through June 9 from 5-8 p.m. All ages are welcome and there is no cost to play. Dinner is available from the Express or Pizza menus.

Arnold Lakeside Center has planned an evening getaway to **Chaffin's Barn Dinner Theater** in Nashville June 24 to see "Everybody Loves Opal," a comedy by John Patrick. Opal Kronkie, a middle-aged recluse, lives in a tumbledown mansion at the edge of the municipal dump. The general disarray of her establishment is aggravated by the fact that Opal collects things, anything that can be toted home in her little red wagon. Into her rather strange world come three outlaws on the lam from the authorities. The crooks decide that what Opal needs is plenty of insurance, a rapid demise, and three beneficiaries (themselves). The unsavory trio concoct several elaborate schemes to "do in" Opal, but each one backfires. Through it all, Opal radiates kindness, affection and an abiding faith in the goodness of human nature. Enjoy dinner before the show and then watch as the real magic begins when the lights dim and the stage descends from the ceiling. Cost is \$55 and deadline to sign up is June 9 (\$60 if signed up June 10-16). Depart from the ALC at 4:45 p.m. and return approximately 12 a.m. This trip has all the elements for an outstanding night of fun located in one building and with transportation provided at a great price. Chaffin's Barn Dinner Theater is rated one of the top 25 tourist attractions in Nashville. Call Melissa at 454-3303 to sign up for the trip. There must be a minimum of four to go and maximum participants allowed is 20.

**2011 Club Membership Scholarship Program** is underway. Members First Plus members and their family members who have been accepted by or enrolled in an accredited college or university for entry during the fall term as part-time or full-time are eligible to enter. There will be 25 \$1,000 scholarships awarded during this program. To enter you must write a 500-word essay on "My contributions to the Air Force" and submit to Services Marketing, A&E Room C303, by July 1. Along with the essay, complete the entry form and provide current college/university acceptance letter for new students or of-

## Eagle Scout project improves biking trail

By Preston Martin  
Arnold AFB Services

Ben Blowers lives in Tullahoma, where he attends East Middle School and participates in their wrestling program. The 14-year-old also is involved with the Boy Scouts of America (BSA) Troop 158. Ben has been working diligently for the past eight years to achieve the Eagle Scout rank, which is the highest rank in the Boy Scouts.

He is currently a Life Scout, which is one level below Eagle Scout. To achieve his goal, Ben has to receive 21 merit badges and complete his Eagle Scout service project. The Eagle Scout service project he chose was to build a shelter for the Mountain Biking Trail at Arnold.

The project began Feb. 9 with the planning of his budget and permits to build the shelter. The project was completed when the last nail was hammered into place April 16. The shelter has a table with a bench on either side and a tin roof protecting it from the weather.

"I wanted a place where people could sit down to rest, get out of the sun and have a table to put their food on," Blowers said.

His group of 20 scouts worked on the shelter for two days. On the first day, they dug holes and set the posts in concrete. After the posts had a week to cure, the group went back and completed the construction of the shelter. The troop also blazed a one-mile beginner's bike trail loop after finishing the shelter.

Before construction began each day, Ben went over a safety briefing to make sure all the workers had the proper safety equipment. The project totaled 204 man-hours, which was only four more hours than Ben had predicted.

"I would like to personally thank Col. Bender, Mr. Ferrebee and Services for their support with my project," Blowers said. "With their assistance I was able to buy almost all of the building materials for the project. I would also like to thank Eagle Metals in Shelbyville for donating the roofing supplies, Woody's Bicycles in Sewanee for their cash donation and Christopher Equipment in Tullahoma for a discounted rate on their post hole digger."

Ben's passion for mountain biking has helped him enjoy and respect the outdoors and what it has to offer. Being in the Boy Scouts has shown Ben how to be a leader by taking responsibility head-on. He is the troop's safety instructor and the Chaplain's Aid, which allows him to organize



and run the troops safety briefings and church functions when they go on trips.

Being a part of Troop 158 brings honor to all of its members, because the troop has been around for 50 years and has been the first to help the community when natural disasters strike or local residents need assistance.

Ben still has a couple of merit badges to complete before he can turn in his Eagle Scout application to the Middle Tennessee Council, which is the review board for all scouts in Tennessee. A merit badge is awarded when the scout has successfully examined and completed tasks set by the BSA on certain subjects such as camping, medicine, golf, fishing, aviation and many others.

For Ben, the aviation merit badge was the most fun, while the personal management has been the most difficult to complete. To complete the personal management merit badge the scout has to

keep a record of all of his income and expenses for three months and simulate how long it would take to make an expensive purchase, like the scout's first car.

In the Cub Scouts Ben was awarded the Arrow of Light, which is the organization's highest rank and is the only badge a Boy Scout can wear on his uniform. He is also in the Order of the Arrow, which is an honor society within the BSA. He was voted into this society by his troop and is currently in the Brotherhood membership.

The BSA is a great organization to be a part of; the troop goes on many hiking, camping and biking trips throughout the year and takes two annual trips for snow skiing and rock climbing. The BSA is for kids in the first grade through age 20. If anyone age 11 through 17 is interested in Joining Troop 158 feel free to call Scoutmaster Frank Steinle at 409-0951 or Committee Chairman Lance Baxter at 273-1564.

## Golden Baton Relay June 22



The 26th Annual Golden Baton Relay will be held at 8 a.m. June 22. The race is held in front of the A&E Building. The first six teams to sign up will receive event t-shirts. Prizes will also be given for the most clever team name, best team costumes and overall team speed. Call to sign up or for more details.

## Outdoor Rec Skydiving Trip to Tullahoma Airport June 18

Who is daring enough to jump out of a perfectly good airplane? Tennessee Skydiving of Tullahoma is ready to make your dreams of flying a reality.

This adventure will be at tandem jump from approximately 14,000 feet. After just a few minutes of instruction you are ready for a 60-second freefall while attached

securely to one of their certified tandem masters.

The cost is \$215 and is for ages 16 and older. Ages 16 and 17 must have written parental consent.

Meet at Outdoor Rec at 9:15 a.m. Finish time will depend on the number of participants. There must be a minimum of

three to go and no more than eight.

Sign up by May 23. Cancellation after June 5 will be nonrefundable. If interested in video or pictures of your jump you must request this at time of reservation. Additional charges will apply for this service.

Call Outdoor Rec at 454-6084 for more information and to sign up.

## Fitness Center to host Health and Wellness Expo

The Fitness Center will kick off the Health and Wellness Expo May 25 with a 3 1/2 mile run at 11:15 a.m. The Expo will be from 11 a.m.-1 p.m. with exposure and education on different dimensions of wellness. While visiting the booths, get a card initialed. Once the card is complete it may be entered for a chance to win prizes.

## Book Fair returns June 22

Books Are Fun is back for a book fair from 9:30 a.m.-3 p.m. June 22 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.



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

Services information written and provided by Tanya Heggard

This Services supplement is published by *The Tullahoma News*, a private firm in no way connected with the U.S. Air Force, under exclusive written contract with the Air Force. This supplement is an authorized publication for members of the U.S. military services. Contents of this supplement are not necessarily the views of, or endorsed by, the U.S. Government, the Department of Defense or the Department of the Air Force.

Services Division is an exclusive area available to all AEDC personnel, active duty, retired military, National Guard, Reserve military and others as approved by the commander. Services activities include Wingo Inn (lodging), Arnold Lakeside Center, Outdoor Recreation (Marina, FamCamp, Crockett Cove), Golf Course, Family Member/Youth Programs and Fitness Center. Those mentioned above are eligible to use any Services activity during regular operating hours unless it is specified as a "members only" event. Membership remains a personal choice, however, only members are entitled to discounts and other benefits associated with membership.

## Services Division Phone Numbers

**Area code 931 DSN 340**  
 Services Chief – 454-7779  
 Services Deputy – 454-5915  
 Community Services Flight Chief – 454-4062  
 Complex Manager – 454-3367  
 Arnold Lakeside Center (ALC) – 454-3350  
 Arnold Lakeside Center catering – 454-3350  
 Hap's Pizza – 454-5555

Membership Information – 454-3367  
 Information Tickets, Tours – 454-3303  
 Fitness Center (FC) – 454-6440  
 Outdoor Recreation (ODR) – 454-6084  
 FamCamp – 454-4520 or 454-6084  
 Marina – 454-6084 or 454-3838  
 Recycling – 454-6068  
 Family Child Care – 454-3277

Family Member/Youth Programs (FamY) – 454-3277  
 Human Resources – 454-5481  
 Marketing & Sponsorship – 454-3128  
 Barber Shop – 454-6987  
 Wingo Inn – 454-3051  
 Golf Course (GC) – 455-GOLF  
 Mulligan's Coffee Bar & Grill – 454-FOOD  
 Gossick Leadership Center – 454-4003

# June 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			<b>1</b> FamY Missoula Children's Theatre preregistration starts, 454-3277 FC Body Pump Boot Camp 6 a.m. ALC Lunch, 11 a.m. – 1 p.m., call ahead 454-5555 FC Pilates 11 a.m.	<b>2</b> FC Cycle Pump Class - Yellow shirt cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Mars Needs Moms" PG dinner 5-8 p.m. movie 6 p.m. ALC Chess Club, 5 p.m.	<b>3</b> FC Body Pump Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Crab and Crawfish Stuffed Chicken Breast, \$12.95 member, \$13.95 non, 4-9 p.m. FamY Movie Night, 5-7 p.m., age 9 and up, free popcorn, 454-3277 ALC First Friday Jam Night, 6-10 p.m.	<b>4</b> GC AEDC Law Enforcement Invitational Golf Tournament ALC Homemade Lasagna with stuffed breadsticks, \$9.95 member, \$10.95 non, 5-9 p.m.
<b>5</b>	<b>6</b> FC Body Pump Boot Camp 6 a.m. FC Cycle Pump Class – Zesty cycling 11 a.m. FC Yoga 11 a.m.	<b>7</b> FC Cycle Pump Class – Endurance Cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	<b>8</b> FC Body Pump Boot Camp 6 a.m. ALC Lunch, 11 a.m. – 1 p.m., call ahead 454-5555 FC Pilates 11 a.m.	<b>9</b> FC Cycle Pump Class - Yellow shirt cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Unknown" PG-13 dinner 5-8 p.m. movie 6 p.m. ALC Chess Club, 5 p.m.	<b>10</b> FC Body Pump Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Baby Back Ribs, full \$18.95 member, \$19.95 non, half \$13.95 member, \$14.95 non 4-9 p.m. ALC Second Friday Karaoke, 6-8 p.m. family time, 8-10 p.m. adult time	<b>11</b> ODR Paintball, 9:30 a.m., \$20 includes lunch, ages 10 and up, 454-6084 ALC New York Strip with Parmesan dusted mushrooms, \$18.95 member, \$19.95 non, 5-9 p.m.
<b>12</b>	<b>13</b> FC Body Pump Boot Camp 6 a.m. FC Cycle Pump Class – Zesty cycling 11 a.m. FC Yoga 11 a.m.	<b>14</b> FC Cycle Pump Class – Endurance Cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	<b>15</b> FC Body Pump Boot Camp 6 a.m. ALC Lunch, 11 a.m. – 1 p.m., call ahead 454-5555 FC Pilates 11 a.m.	<b>16</b> FC Cycle Pump Class – Yellow shirt cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Diary of a Wimpy Kid: Rodrick Rules" PG-13 dinner 5-8 p.m. movie 6 p.m.	<b>17</b> FC Body Pump Boot Camp 6 a.m. FC Piloga 11 a.m. ALC Gouda and Bacon Stuffed Pork Chops, \$9.95 members, \$10.95 non, 4-9 p.m.	<b>18</b> ODR Skydiving, meet 10:15 a.m., \$215, sign up by May 23, 454-6084 ALC Butterfly Shrimp \$10.95 member, \$11.95 non, 5-9 p.m.
<b>19</b>	<b>20</b> FC Body Pump Boot Camp 6 a.m. ODR Swimming Lessons begin, 10 & 11 a.m., \$15, age 6 months and up, sign up by June 18, 454-6084 FC Cycle Pump Class - Zesty cycling 11 a.m. FC Yoga 11 a.m.	<b>21</b> FC Cycle Pump Class - Endurance Cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	<b>22</b> FC Body Pump Boot Camp 6 a.m. FC Golden Baton Relay, 8 a.m., A&E Circle ALC Book Fair, A&E Rooms A125 & A127, 9:30 a.m. – 3 p.m. ALC Lunch, 11 a.m. – 1 p.m., call ahead 454-5555 FC Pilates 11 a.m.	<b>23</b> FC Cycle Pump Class - Yellow shirt cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Limitless" PG-13 dinner 5-8 p.m. movie 6 p.m.	<b>24</b> FC Body Pump Boot Camp 6 a.m. FC Piloga 11 a.m. ALC All You Can Eat Spaghetti and Meatballs \$10.95 member, \$11.95 non, 4-9 p.m. ALC Chaffin's Barn Dinner Theater trip, 4:45 p.m., \$55, sign up by June 9, 454-3303	<b>25</b> GC Member-Guest Tournament, 8 a.m., \$125 per team, 2 days, sign up by June 22 ALC Prime Rib for Two, \$29.95 member, \$31.95 non, 5-9 p.m.
<b>26</b> GC Member-Guest Tournament day two, 8 a.m.	<b>27</b> FC Body Pump Boot Camp 6 a.m. FC Cycle Pump Class – Zesty cycling 11 a.m. FC Yoga 11 a.m.	<b>28</b> FC Cycle Pump Class – Endurance Cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m.	<b>29</b> FC Body Pump Boot Camp 6 a.m. ALC Lunch, 11 a.m. – 1 p.m., call ahead 454-5555 FC Pilates 11 a.m.	<b>30</b> FC Cycle Pump Class - Yellow shirt cycling 11 a.m. FC Karate 3 p.m. FC Zumba 4:15 p.m. ALC Dinner & Movie Night "Rango" PG dinner 5-8 p.m. movie 6 p.m.		

### BX/Commissary customer eligibility

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

#### AAFES Dividends

Dividends generated from the Army and Air Force Exchange Service (AAFES) overall earnings are a major contributor to Services nonappropriated fund (NAF) construction and renovation projects as well as equipment purchases. Services would like to thank all AAFES customers for their support. Dividends received for April 2011 totaled \$5,312.20.

**Briefs from H1**

those already enrolled. Winners will be announced Sept. 16. For more information visit [www.afclubs.net](http://www.afclubs.net).

**Wednesday Lunch** is available for dine in or carry out from 11 a.m.-1 p.m. Call ahead to 454-5555 to place orders. No delivery available. For better service, you may call on any day and pre-order. Regular menu items available during lunch include specialty burgers, chicken tenders, salads and stuffed breadsticks. Call to see what other specials are available each week or check Sharepoint.

**Second Friday Karaoke** will be 6-10 p.m. June 10. All ages are welcome from 6-8 p.m. but 8-10 p.m. is reserved for adults only. Dining room special will be baby back ribs, full \$18.95 member, \$19.95 nonmember, half \$13.95 member, \$14.95 nonmember served 4-9 p.m.

**Movie nights** are every Thursday with movie start time of 6 p.m. and dinner available from the Express or Pizza menus from 5-8 p.m. The schedule for June is: **June 2** – “Mars Needs Moms,” rated PG starring Seth Green and Joan Cusack. A young boy gains a deeper appreciation for his mom after Martians come to Earth to take her away. **June 9** – “Unknown,” rated PG-13 starring Liam Neeson and January Jones. A man awakens from a coma, only to discover that someone has taken on his identity and that no one, not even his wife, believes him. **June 16** – “Diary of a Wimpy Kid: Rodrick Rules,” rated PG starring Zachary Gordon. Back in middle school after summer vacation, Greg Heffley and his older brother Rodrick must deal with their parents’ misguided attempts to have them bond. **June 23** – “Limitless,” rated PG-13 starring Bradley Cooper and Robert De Niro. An action-thriller about a writer who takes an experimental drug that allows him to use 100 percent of his mind. **June 30** – “Rango,” rated PG starring Johnny Depp and Isla Fischer. Rango is an ordinary chameleon who accidentally winds up in the town of Dirt, a lawless outpost in the Wild West in desperate need of a new sheriff.

**Friday night dining room specials available from 4-9 p.m. June 3:** Crab and crawfish-stuffed chicken breast, \$12.95 member, \$13.95 nonmember. **First Friday Jam** is 6-10 p.m. **June 10:** Baby back ribs, full \$18.95 member, \$19.95 nonmember, half \$13.95 member, \$14.95 nonmember. **Second Friday Karaoke** 6-10 p.m. **June 17:** Gouda and bacon stuffed pork chops, \$9.95 members, \$10.95 nonmember. **June 24:** All you can eat spaghetti and meatballs \$10.95 member,

\$11.95 nonmembers. All specials and times are subject to change without notice. Please call ahead to ensure availability and openings.

**Saturday availability and specials: June 4:** Homemade lasagna with stuffed breadsticks, \$9.95 member, \$10.95 nonmember. **June 11:** New York strip with parmesan-dusted mushrooms, \$18.95 member, \$19.95 nonmember. **June 18:** Butterfly shrimp \$10.95 member, \$11.95 nonmember. **June 25:** Prime rib for two, \$29.95 member, \$31.95 nonmember. 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.

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

**America’s Armed Forces Kids Run** is set for May 21 with check in at 8:30 a.m. at the Youth Programs building. As part of Armed Forces Day activities in May each year, military dependants here in the United States, in Bahrain, Greece, Puerto Rico, Germany, Japan, Iceland, England and Italy will participate in America’s Kids Run. The annual event began in 1986 as Junior Bloomsday, the child’s answer to the annual Bloomsday race that so captivates the Inland Northwest in early May each year. Mike Erwert, whose own boys were too young for Bloomsday in 1986, noticed that despite their ambitions, most children just couldn’t manage the 7.46 mile Bloomsday course. So he decided a run for children would capture the excitement of the annual Bloomsday run; thus Junior Bloomsday was born - an event for children ages 5 to 13. The younger kids would run half a mile, with the 7- and 8-year-olds running one mile, and the older kids running two miles. Over the years 120,000 children have earned their own T-shirt by completing the annual spring run. After 16 years of success, Junior Bloomsday realized a name change was in order to capture the national and international interest it was receiving by military bases, thus America’s Kids Run reflected its growth beyond Spokane’s borders. Erwert explains, “It is time to move forward with a name that truly identifies the wonderful event Spokane has authored.” The run has been recognized nationally in National Geographic World, National Road Runners Management, Runner World, USA Today and voted Best Children’s Run by Runner World May 2003. To register for this fun run go [www.americaskidsrun.org](http://www.americaskidsrun.org)

or call for more information.

**Camp Adventure** is a 10-week summer day camp for ages 5-12 sponsored by the Services Community Flight and run by skilled professionals through the University of Northern Iowa. Activities are held 7:30 a.m.-4:30 p.m. Monday through Friday. The camp will run from May 31 to August 5. Children may attend any or all of the 10 weeks; however, we ask that attendance information be completed at time of registration.

Each week is set to a theme and activities and field trips are planned to coincide with that theme. Only morning and afternoon snacks will be provided. Parents must supply their child with a sack lunch daily. Please do not send carbonated beverages of any kind to camp. Please ensure that lunches are clearly marked with your child’s name. Cold items can be accommodated in our central refrigerator; however, we will not be able to heat any meals. Please keep this in mind when determining your child’s lunch.

Outdoor and swimming activities are planned throughout the week (weather permitting). To be sure no one is left out of these exhilarating activities, each child should bring an extra pair of clothing and a swimsuit daily to camp. Closed-toe shoes must be worn at all times during camp activities and on field trips. Camp starts at 7:30 a.m. and ends at 4:30 p.m. Children will not be accepted before 7:15 a.m. – no exceptions. At 4:30 p.m. children that are not picked up will be transitioned to Open Recreation. Families picking their child up after 6 p.m. will be charged a late fee of \$1 per minute. No grace period allowed.

Weekly fees are based on total household income. The categories are determined based on DoD Child-care Fee Policies. Fees include snacks and field trip costs. Payment in advance for the first and last week of camp is required at time of enrollment. Weekly payments are due on the third day of the week. A late payment fee of \$20 will be applied to payment after the third day of the week.

Category	Total Income	Rate
I	\$0-29,400	\$55
II	\$29,401-35,700	\$65
III	\$35,701-46,200	\$75
IV	\$46,201-57,750	\$91
V	\$57,751-73,500	\$106
VI	\$73,501 -85,000	\$122
VII	\$85,001-100,000	\$131
VIII	\$100,001-125,000	\$134
IX	\$125,001 +	\$137

The following documentation must be completed to enroll each of your children in the program: application form, AF Form



At the May meeting of the AEDC Woman’s Club, new officers were elected and installed. Pictured above from left to right are: Liz Joliffe, outgoing president and parliamentarian, Sandie Simms, secretary, Jane Ricci, 2nd vice president, Sande Hayes, 1st vice president, Patti Mathis, president and Barbara McGuire, installing officer. Not pictured are Olga Brindley, treasurer, and Elaine Eubanks, historian.

1181 – Youth Registration, AF Form 1055 – Medication Permission Slip (if applicable), copy of your leave and earnings statement or W2 (note: if information is not provided, the highest category (IX) will be used to calculate weekly rate).

To start your child on this extraordinary adventure, contact Youth Programs for applications. The first and last week’s fees are due at time of enrollment to hold your child’s slot. Two week’s written notice of cancellation must be provided or fees will be forfeited. Fill out the Summer Camp Adventure Application and return it, along with the other required documentation and weekly fees, to Youth Programs no later than two weeks prior to start of camp. You may select as many weeks as you want on one application but a different application is required for each child attending.

For more information contact Youth Programs at 454-3277.

**Youth Movie Night** will be from 5-7 p.m. June 3. Ages 9 and up are invited to the Open Rec Center to watch a movie. There will be free popcorn, juice and water.

Arnold Youth Programs will host **Missoula Childrens Theatre’s production of “The Jungle Book”** July 11-16. Auditions are open to children of AEDC families and the local surrounding communities that have finished first grade through age 18. Pre-

registration is required and will begin June 1. Cost is \$20 per child (\$5 discount for additional children in the same family). Deadline to register is July 7. Once each age group is filled to capacity (total of sixty cast members and four assistant directors) no additional children may sign up. By preregistering, this will eliminate the possibility of children being turned away at the audition. Registered children will participate in an audition at 4:30 p.m. July 11. The audition process will take approximately two hours and some may be required to stay an additional two hours for rehearsal. Call 454-3277 to register. Payment is due at time of registration. The full production performance will be open to the public at 2 p.m. July 16 at the Manchester Performing Arts Center. Admission will be \$10 for adults and \$5 for children age 3-5.

**Fitness Center (FC) 454-6440**

The 26th Annual **Golden Baton Relay** will be held at 8 a.m. June 22. The race is held in front of the A&E Building and each team runner must complete two laps around the A&E Circle before passing the baton to the next runner. Teams must consist of four runners with a combined total age of at least 120 and one timekeeper. Teams may

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

**Services hours of operation:**

- Arnold Lakeside Center** – Special function luncheons available. Call 454-3350 for arrangements. Catering/Management offices Tuesday-Friday 10 a.m.–3 p.m.; Lunch: limited menu Wednesdays, 11 a.m.–1 p.m., call 454-5555 to place orders; Dinner: Arnold Express Menu or Hap’s Pizza only Thursday 5-8 p.m., dinner or Arnold Express Menus and Hap’s Pizza Friday 4–9 p.m. and Saturday 5–9 p.m.; Main Bar Thursday 5–8 p.m., Friday 3:30–10 p.m. and Saturday 5–10 p.m.; Social Hour Friday 4–6 p.m., Movie Night Thursday 6 p.m.
- Family Member/Youth Programs** – Tuesday through Friday 10 a.m.–5 p.m., Saturday 12–5 p.m., First Friday Movie Night 5–7 p.m.
- Outdoor Rec** – Main Office, Check In, Marina and Auto Shop Tuesday through Sunday 8 a.m.–6 p.m.
- Fitness Center** – Monday–Friday 5 a.m.–9 p.m.; Saturday 8 a.m.–4 p.m.; Sunday 12–5 p.m.
- Arnold Golf Course** – Pro Shop & Driving Range 7 a.m.–dusk, Driving Range open 24 hours with pre-purchased key card. Mulligan’s Grill: 6:30 a.m.–2 p.m. Monday through Friday, 7 a.m.–2 p.m. Saturday and Sunday.
- Recycling** – Monday through Friday 7 a.m.–4 p.m.
- Wingo Inn** – Monday through Friday 7 a.m.–6 p.m., Saturday and Sunday 8 a.m.–4 p.m.
- Barber Shop: by appointment** – Monday, Wednesday & Friday 8 a.m.–2p.m.; Thursday 8 a.m.–noon.

**AEDC Woman’s Club 393-3698 or 962-1378**

select appropriate and tasteful ways to distinguish themselves and may bring their own baton or use batons provided by the Fitness Center. The first six teams to sign up will receive event t-shirts. Prizes will also be given for the most clever team name, best team costumes and overall team speed. Call to sign up or for more details.

**Outdoor Rec (ODR) 454-6084**

**Paintball** is June 11. Ages 10 and older are invited to play. Meet at Outdoor Rec. at 9:30 a.m. Cost is \$20 and includes lunch. Remember to wear long-sleeved shirts and long pants.

**Swimming Lessons** have been scheduled for June 20-24 and July 11-15. Cost is \$15 per person and is for ages six months and older. The Parent-Tot Group (age six months to 4 years) will be held at 10 a.m. and ages 4 and up will meet at 11 a.m. Classes will be Monday through Friday for fifty minutes each at the ALC beach. Deadline to sign up is June 18 and July 9 respectively.

**Wingo Inn 454-3051**

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

May 3 marked the end of another year of meetings of the AEDC Woman’s Club. The club was founded in 1953, with Zita Ferrell as the first president, as a social and service organization and has continued through the years providing fun and fellowship to ladies from all walks of life. At the May meeting, Millie Ellis, president of the AEDC Woman’s Club from 1955 to 1956, was present and enjoyed all of the activities which brought back many fond memories. The Woman’s Club supports several local outreach programs as well as higher education by awarding scholarships to graduating seniors.

New members and guests are always welcome. For information about membership, please contact membership chairperson Monica Skelton at 393-3698 or [mskelton@lighttube.net](mailto:mskelton@lighttube.net) or Jane Ricci at 962-1378 or [dickanjane@comcast.net](mailto:dickanjane@comcast.net). Meetings will resume Sept. 6 at Arnold Lakeside Center.

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