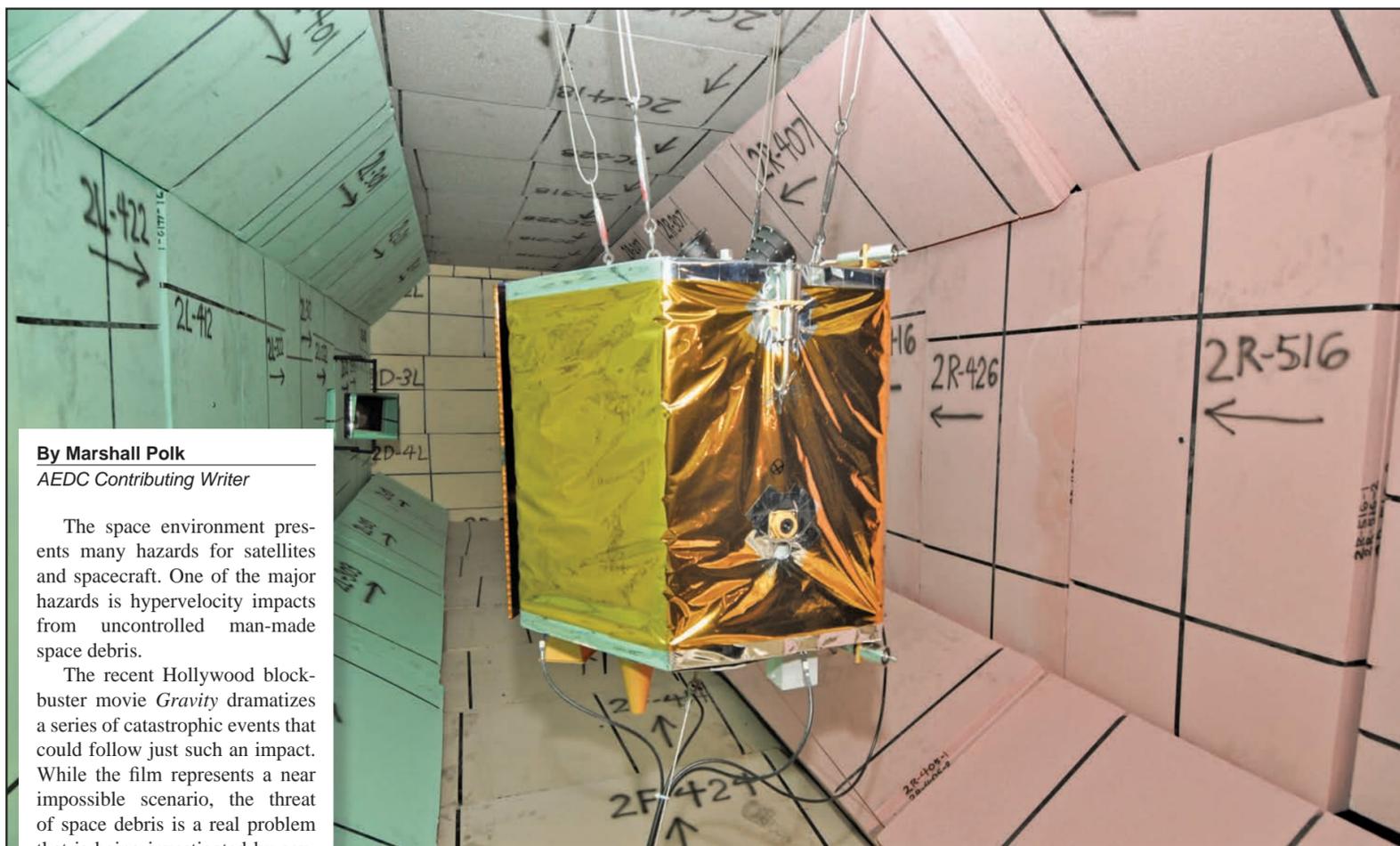


DebrisSat data obtained from destruction



By Marshall Polk
AEDC Contributing Writer

The space environment presents many hazards for satellites and spacecraft. One of the major hazards is hypervelocity impacts from uncontrolled man-made space debris.

The recent Hollywood blockbuster movie *Gravity* dramatizes a series of catastrophic events that could follow just such an impact. While the film represents a near impossible scenario, the threat of space debris is a real problem that is being investigated by several space flight organizations throughout the world.

Arnold Engineering Development Complex (AEDC) teamed with NASA, The U.S. Air Force Space and Missile Systems Center (SMC), the University of Florida and The Aerospace Corporation to perform a hypervelocity destructive impact test of a modern satellite to help scientists better understand the effects of space collisions. The satellite, called the DebrisSat, was a non-functional full-scale representation of a modern satellite. The satellite was designed and fabricated by the University of Florida and supplied to AEDC for destruction.

The test utilized AEDC's Range G light gas launcher, which is capable of firing projectiles

See **DEBRISAT**, page 3

The DebrisSat, a non-functional full-scale representation of a modern satellite, is shown in the Range G target tank surrounded by "Soft Catch." (Photo by Jacqueline Cowan)

First industry day held for Facility Support Services contract

By Jason Austin
AEDC Public Affairs

Seventy-eight people representing 51 companies attended an Industry Day for the future Facility Support Services (FSS) contract hosted by the Arnold Engineering Development Complex Source Selection Office held May 7 through 8.

The FSS requirements at AEDC are part of a larger AEDC-led acquisition strategy which will divide mission requirements - currently performed by ATA - into seven separate contracts. Four of those contracts must be strategically sourced, while the remaining three contracts will be locally competed and

See **CONTRACT**, page 2

Revolutionary Change:
Another
'Big Three'
development
milestone
reached

AEDC Commander, Col. Raymond Toth, is providing periodic updates on AEDC's Source Selection efforts to the entire workforce via email and video messages called "What's the Buzz?". The High Mach will print those messages and transcripts in a series titled "Revolutionary Change." Additionally, Toth's messages and other information can be found online at www.arnold.af.mil/transition.

Team AEDC,

SourceAmerica has reached another milestone in the development of the "Big Three" service under the AbilityOne® program. CW Resources, Inc. has been selected to move into the next phase of the process to become AEDC's contractor for grounds maintenance, refuse collection and custodial services.

Members of SourceAmerica and CW Resources will be on base next week for the first of many visits.

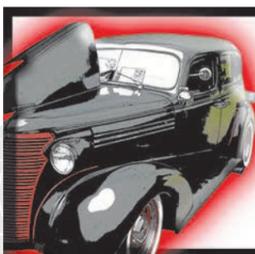
See **MILESTONE**, page 2

Area 13 Special Olympics 2014



AEDC personnel volunteer at the Area 13 Special Olympics on April 24 at the Tullahoma High School stadium where AEDC Commander Col. Raymond Toth (left) runs with torch runner Tim Sullenger of Moore County. AEDC volunteers cheer for many Olympic participants. See photos of AEDC volunteers at the Area 13 Special Olympics on page 4. (Photo by Rick Goodfriend)

In This Issue....



AEDC CRUISE-IN 2014
May 30, 11 a.m. - 12:30 p.m.
ETF Annex Parking Lot (Rain Date, June 6)

HIGH MACH

Arnold Engineering Development Complex
An Air Force Materiel Command Test Complex

Col. Raymond Toth
Commander

Jason Austin
Chief,
Public Affairs



Steve Pearson
General Manager,
Aerospace Testing Alliance

High Mach Staff:
Kathy Gattis, ATA Public Affairs Manager & Executive Editor
Raquel March, Editor

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Core Values

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



Vision

"ATA will be a trusted partner in delivering best value warfighter support and asset 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

Arnold Police reminds motorists and motorcyclists to 'share the road'

For AEDC riders, Motorcycles, Motor Scooters, Mopeds PPE requirements include:

Requirements for wear of personal protective equipment (PPE), moped requirements, and two-wheeled vehicle safety requirements apply to military personnel on and off the installation. Nonappropriated Funds (NAF) and Department of the Air Force (DAF) civilians must comply with the above requirements when operating any vehicles on base and when in an official duty status off base. Dependents and contractors must comply with the above when operating any vehicles on base.

- Only operators may ride mopeds – no passengers.
- Headlights (when equipped). All motorcycles, mopeds, motor scooters, three wheeled vehicles and ATVs will have headlights turned on at all times when operating on a DOD installation on or off-road, except where prohibited during military mission or by state, local or host nation law.
- Rear View Mirrors. Motorcycles will have both left and right rear view mirrors mounted on the handlebar or fairing.
- Head Protection. A helmet, certified to meet current Federal Motor Vehicle Safety Standard No. 218 (DOT) or Snell Standard M2005 or higher, shall be worn and properly fastened under the chin for the operator and

passenger.

- Eye Protection. Goggles, wrap around glasses, or a full-face shield designed to meet or exceed American National Standards Institute (ANSI) Standard Z87.1, or UNECE 22.05 or BS6658 in effect when manufactured, will be properly worn by the operator and passenger. A windshield does not constitute proper eye protection.
- Protective Clothing. Wearing of long sleeved shirt or jacket, long trousers and full-fingered gloves or mittens is required for operator and passenger. Gloves or mittens will be made from leather or other abrasion-resistant material. Wearing of a motorcycle jacket and pants constructed of abrasion resistant materials such as leather, Kevlar® or Cordura® containing impact absorbing padding is strongly encouraged. Riders should select PPE that incorporates fluorescent colors and retro-reflective material.
- Garment Visibility. Motorcycle riders and passengers must wear brightly colored or reflective outer upper garment when the motorcycle is in operation.
- Foot Protection. Sturdy, hard-soled shoes, over the ankle footwear that affords protection for the feet and ankles.



MILESTONE from page 1

During these visits, CW and the Air Force will refine requirements and pricing through late May.

CW Resources is a non-profit agency whose goal is to provide employment opportunities to disabled individuals. The agency, which began in 1956, has a long tenure within the government for a variety of services and has experience transitioning to new contracts. CW Resources plans to hold informational meetings in early July; I will forward locations and times once final arrangements have been made.

Among CW's customer base are Shaw AFB, S.C.; the U.S. Coast Guard Academy, New London, Conn.; Fort

Hood, Texas; the Mark Center in Alexandria, Va.; and many others throughout the government and private sectors. More information can be found at www.cwresources.org.

I wanted to note that the acquisition process administered by SourceAmerica under the AbilityOne Program is significantly different than the six other transition processes we anticipate over the next 18 months. However, SourceAmerica has a proven track record and a well-established and organized process for contract competition, award and management. The AbilityOne program has Air Force emphasis because of the benefit to people with significant disabili-

ties and they are actively engaging Wounded Warriors, who may not otherwise have employment opportunities because of their disabilities. CW Resources has an award-winning recruitment model for hiring veterans with disabilities. As we transition to CW Resources, we are working closely with ATA's transition team and leadership to ensure it goes smoothly.

Grounds maintenance, refuse and custodial services are critical test enabling capabilities for AEDC; ensuring we have a great team on board to care for these services will allow all of us to focus on our portion of the mission and keep each other safe. Take care of each other.

By Charles Cook
Arnold Police Department

In recognition of May as Motorcycle Safety Awareness Month, I would like to reach out to AEDC motorists and motorcyclists alike, encouraging them to "share the road" in order to reduce motorcycle deaths and injuries. Motorcycles are among the smallest and most vulnerable vehicles on the road, putting riders at greater risk of death and serious injury in a crash. In fact, according to the Department of Transportation's National Highway Traffic Safety Administration (NHTSA), motorcyclists are 30 times more likely than occupants of cars to die in a crash, and 5 times more likely to be injured.

The latest statistics from NHTSA display this tragedy in stark numbers. Motorcycle deaths have increased every year for 14 of the past 15 years, except in 2009, which saw a decline. In 2012, 4,957 motorcyclists died on America's roads, accounting for 15 percent of total highway deaths. Motorcycle crash-related injuries also increased from 81,000 in 2011 to 93,000 in 2012.

One way we can decrease the number of fatalities and injuries, and make the roads safer is if we work together, motorists and motorcyclists alike. Adhering to the following rules will improve highway safety for everyone.

Drivers should:

- Be on the lookout for motorcyclists at all times;
- Signal all lane changes and turns, and constantly check mirrors and blind spots before proceeding;
- Be fully focused on the task of driving and in control of their vehicles at all times; and
- Never drive impaired by alcohol or drugs.

Riders should:

- Obey all traffic laws and be properly licensed;
- Wear a DOT-compliant helmet and use reflective tape and gear to be more visible. NHTSA estimates helmets saved the lives of 1,617 motorcyclists in 2011; and
- Never ride while impaired or distracted.

Please join me in reaching out to other motorists and motorcyclists this month to encourage safe driving every day of the year at AEDC and in the local area. Specific AEDC rules and requirements are provided in the accompanying information box.

CONTRACT from page 1

managed. The FSS contract will be locally competed and managed.

Industry Day participants received several briefings on the areas included in the FSS effort as well as an opportunity to tour relevant areas of AEDC. Participants were also allowed to meet one-on-one with functional experts in each area.

The FSS contract is being set aside for small business and has requirements in the following areas: security forces; fire and emergency services; information protection; environmental programs; safety; occupational medicine and industrial hygiene; logistics and vehicle management; supply; visitor control center services; and operations

center and command and control.

The FSS acquisition is anticipated to be conducted using the performance-price tradeoff / technically acceptable (PPT/TA) source selection approach with an anticipated award in June 2015.

The contract start date is planned for Oct. 1, 2015 and the period of performance will be four years cumulative (one base year and three 1-year options) with an estimated value of \$96 million.

Anyone interested in finding out more information about the FSS contract can visit the Test and Operations Support Competition Library at www.arnold.af.mil/toslibrary.

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, smoking is not permitted 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. 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://papro.arnold.af.mil/PORTAL/images/Smoking_area_map.pdf. Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

Smoking, including the use of electronic cigarettes and smokeless tobacco, is prohibited in any area, at times when official business is being conducted with government clients, test customers, outside visitors and dignitaries, and where official business is being conducted including conference rooms, auditorium settings, business meetings, or in any other area where Air Force regulations specifically prohibit use. 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. Due to the nature, appearance, and safety concerns of electronic cigarettes (also known as "e-cigs"), the use of said products will abide by the same rules for tobacco products stated above and governed by AFI 40-102, *Tobacco Use in the Air Force*.

2. Supervisors at every level will ensure this policy is followed. Disciplinary action is appropriate for repeated violations.

3. Updates to this policy will be made in the future to further align with Air Force guidelines.

4. This policy remains effective until rescinded. (This policy is dated December 20, 2013)

Action Line

Team AEDC

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

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

Col. Raymond Toth
AEDC Commander

Spring Safety Campaign seeks to involve everyone

By Vicki Peters
AEDC Contributing Writer

Aerospace Testing Alliance (ATA) collaborated with its parent company, Jacobs Engineering, which took part in a consortium of 31 engineering and construction companies who joined together to raise safety awareness.

As a result, those companies sponsored a Safety Week 2014, May 4-10.

Rather than having a single week devoted to this initiative, ATA is using the resources from the initiative for a Spring Safety Campaign which will run through May and June, explained ATA Safety, Health

and Environmental Director Catherine Plunkett.

“Our goal for the campaign is not only to raise safety awareness but to spread our Culture of Caring to everyone we come in contact with,” Plunkett said. “We need the engagement of all employees to make this a success.”

According to Craig Martin, Jacobs President and CEO, the goal of the safety awareness initiative is to improve safety practices and unite the entire construction industry in making a commitment to be leaders in living and promoting a strong safety culture. In emphasizing the company’s attention to

safety, Martin stated, “At Jacobs, BeyondZero® and our Culture of Caring compel us to focus on safety every day – on every task – as the number one priority in our jobs and in our lives.”

The five focus areas of ATA’s safety campaign are slips, trips and falls; driving; hand safety; height safety; and home safety, according to ATA Safety and Health Manager David Dawkins.

“A variety of different resources will be available,” Dawkins noted. “These include posters, videos, checklists, activities and even children’s coloring books. Many of the activities provided are

suitable for both the office and field environment.”

Dawkins emphasized that the campaign is being rolled out through ATA’s BeyondZero Communication Team (BZCT), with members working directly with management and employees to select materials that best fit their work locations.

Team members represent various departments within the company and are working to engage all employees in the campaign. BZCT members are Doug Miller, Jimmy Burrows, Justin Garrard, and Bob Williams from Test Asset and Support; James Ordway and Maynard Schewe

from Information Technology; Mitch Kendrick and Edd Walker from Mission Support; Kayla Fann and Gail Holder from Performance Management; and Jason Waller and Matt Wilson from Test and Evaluation.

While Jacobs and ATA have outstanding safety records with injury rates well below industry average, CEO Martin notes that, “One incident is one too many. Truly extraordinary safety requires more than an intellectual commitment; it requires a deep emotional commitment. If each of us can truly connect heart and mind in these commitments, then collec-

tively we have the ability to transform our company, our industry and more.”

Martin challenges every employee to get involved and to spread the Culture of Caring both on and off the job.

“Have you ever had a personal ‘A-ha’ moment when it comes to safety? What’s your reason for taking responsibility for your safety and the safety of those around you? Share a story of your own. Pass it on. Together we can be leaders in safety,” he said.

Employees who want to share their personal stories are encouraged to submit them to their organization’s BZCT representative.

New software assists with Next Generation of Advanced Aircraft

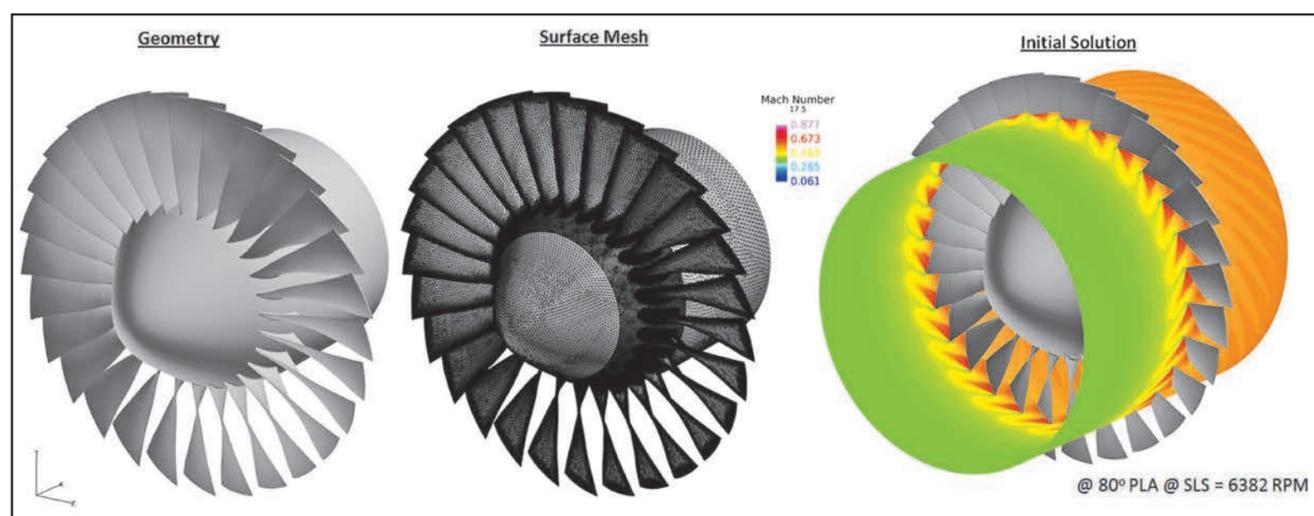
By Deidre Ortiz
ATA Public Affairs

New software is available to aid in providing acquisition support for Next Generation of Advanced Aircraft.

The CREATE program (Computational Research and Engineering For Acquisition Tools and Environments), an initiative funded by the Office of Secretary of Defense High Performance Computing (HPC) Modernization, is being used to develop next generation computational engineering tool sets for acquisition program engineers. The tools allow program engineers to take advantage of the growth in supercomputer power.

Tracy Donegan, supervisor in the ATA Integrated Test and Evaluation Department, said the CREATE program’s mission is to improve DOD acquisition processes by developing and deploying HPC-based Computational Engineering (CE) tools.

These tools include production-quality design and analysis software that’s both



In the above diagram, the first image is of a rotor fan surface geometry that was the result of the laser scan. The second image shows computational fluid dynamics (CFD) mesh that was generated from the surface and then used to produce the CFD results. The third image shows a portion of the CFD flowfield and the pressure of the air as it goes through the fan. (Image Provided)

adaptable and maintainable, which will be beneficial in fully supporting initial design efforts for future tactical aircraft systems.

“One facet of the CREATE program is to initiate implementation of the emerging tools for a current acquisition application in order to assist the direction of the software development and test their suitability to realistic applications,”

Donegan said.

The CREATE program is being applied locally at AEDC for the modeling of the TF34-GE-100A three dimensional full annulus fan within the nacelle, or its enclosure, for an accurate simulation of the inlet flow. This replicates the inlet flow distortion, the fan response to the flow, as well as provides an analysis tool to assess fan operability.

Donegan explained that in order to model the full annulus fan a detailed geometric representation was required.

“A single rotor blade for the TF-34 engine, which is the engine used in the A-10 close-air-support aircraft, was located at the model shop and scanned at the model shop using a local laser scanner,” Donegan said. “The set of rotor blade surface points

generated from the laser scan was used by the design group in conjunction with engineering drawings to create a CAD model of the rotor blade for CFD analysis purposes.

“The engineering drawings on their own were for inspection purposes and did not contain sufficient information to model a blade from scratch. However, combined with a laser

scan, enough information was available to model an entire blade array based on the single blade definition. The blade was incorporated into a rotor assembly and CFD [computational fluid dynamics] solutions have been generated.”

A stator blade, the stationary blade of the fan, was also located, and the same process was used to complete the fan model.

Col. Holt discusses how security is vital to mission success

By Deidre Ortiz
ATA Public Affairs

Col. Warner Holt with the Tennessee Army National Guard provided attendees with a unique perspective on security at the AEDC Security Fair held April 30-May 2 at the Main Auditorium.

Warner also works at AEDC as the Logistics and CE Deputy Branch Manager for ATA.

Holt started by recognizing all AEDC personnel for doing their part to ensure warfighters overseas are kept safe.

“Security is key to mission success,” he said. “Your contribution to na-

tional security is important, especially to the warfighter.”

Though AEDC personnel may not be aware of their impact, Holt explained protecting information and paying attention when something “just doesn’t look right” is essential. He added these efforts are a significant part of AEDC and its mission, which is exemplified in the vision statements of AEDC Commander, Col. Raymond Toth, “We must continue to maintain and improve...the capabilities critical to our customers...,” and ATA General Manager Steve Pearson, “ATA will be a trusted

partner in delivering best value warfighter support and asset stewardship to AEDC.”

Holt, who has 31 years of military service, commented he knows firsthand how security is of special importance to the men and women serving overseas.

In order to be successful in combat, Holt stated good communications and security and defense are the top two necessities, along with intelligence, medical support and fire support, both from the air and ground. He mentioned air support is where AEDC’s role in security

See SECURITY, page 7



Col. Warner Holt speaks to a group of attendees at the AEDC Security Fair about how security supports missions overseas. During his presentation, Holt also thanked AEDC personnel for doing their part to ensure warfighters are kept safe. (Photo by Jacqueline Cowan)

DEBRISAT from page 1

over one pound at speeds of more than 15,500 mph.

“AEDC was the only facility that could provide kinetic energy that was high enough to cause the catastrophic destruction of the satellite,” said Dr. J.C. Liou from the NASA Orbital Debris Program Office.

The Range G launcher fires into a sealed test chamber that can be conditioned to simulate the low pressure environment of outer space. Destroying the satellite inside the chamber also allows the debris to be easily recovered for analysis.

“Inside the chamber

we line the walls with foam to stop the debris fragments from impacting the sides of the tank,” said David Woods, Range G installation engineer. “We call this debris recovery method ‘soft-catch’ since it prevents the debris from being further damaged by impacting the walls of the test chamber.”

This is not the first destructive satellite test for AEDC. In 1992 the Department of Defense (DOD) and AEDC performed the Satellite Orbital Debris Characterization Impact Test (SOCIT) in the Range G. This test involved destroying a Navy

Transit satellite built in the 1960’s. The SOCIT test provided useful data for the DOD and NASA to develop orbital debris satellite breakup models. Unfortunately, many of the modern satellites in orbit are constructed differently than the transit satellite used in the SOCIT test.

“The breakup fragments from a modern satellite are very different from the breakup fragments of an older satellite,” Liou said. “We saw this in the 2009 collision between the Iridium 33 satellite and the Cosmos 2251 satellite.”

NASA’s satellite breakup model described the fragments from the older Cosmos satellite well, but noticeable discrepancies were present in the breakup prediction of the more modern Iridium 33. The DebrisSat test hopes to eliminate these discrepancies in the models and also provide experiment data that will benefit the orbital debris community.

In addition to the DebrisSat, AEDC Range G also helped the DOD, NASA and The Aerospace Corporation perform hypervelocity impact experiments involving an upper

stage of a launch vehicle dubbed “DebrisLV” and a spacecraft protection device commonly called a Whipple Shield. Cooperative work between AEDC and the test customers allowed these additional test articles to be installed for the two facility checkout runs prior to the DebrisSat test.

“This was a great opportunity for both the AEDC ranges and the Debris community,” said Air Force Project Manager 2nd Lt. Ben Hoff. “Establishing these relationships and understanding the communities’ need can help us as a test facility provide

important data collection opportunities that would have been wasted because we didn’t understand the need.”

AEDC test facilities try to avoid any damage to the test article, but for this test NASA came with the goal of complete destruction and the Range G was able to deliver on target.

“We are very happy about the outcome of the DebrisLV and DebrisSat experiments,” Liou said. “We were well above the necessary impact energy to have a catastrophic destruction of the DebrisSat which resulted in a very successful test.”

Special Olympics 2014



(Photos by Rick Goodfriend)

AEDC Woman's Club awards scholarships



Coffee and Franklin County Students receive AEDC Woman's Club scholarships. Pictured left to right are students Grant Gipson, Franklin County High School; Tyler Strope, Huntland High School; Kellye Burns and Elecia Herrera, Tullahoma High School; and Ling-ling Phongsang and Luke Blackburn, Coffee County Central High School. (Photo provided)

By Suzette McCrorey
AEDC Woman's Club

The AEDC Woman's Club recently awarded six scholarships during their April 1 meeting to students from Coffee and Franklin County.

Each student thanked the Woman's Club members for the scholarship and informed the club of their future plans. They also introduced their parents. Arnold Air Force Base Commander Raymond Toth and his wife Theresa, the Woman's Club honorary president, presented each recipient with a scholarship certificate.

This year's scholarship award winners from Coffee County Central High School were Ling-ling Phongsang and Luke Blackburn.

Ling-ling is the daughter of Anouxa Phiakao and Viengvilay Phongsang of Manchester. She will attend Tennessee Technological University in Cookeville, Tenn., with plans to earn a bachelor's degree. Ling-ling hasn't decided on a major but she aspires to make a career providing aid to others.

Luke Blackburn is the son of Ben and Courtney Blackburn of Manchester. Luke plans to attend the University of Tennessee in Knoxville or Auburn University in Alabama majoring in mechanical engineering. Upon obtaining his degree he plans to return home to Manchester to assist his father in their family-owned machine shop.

The scholarship award winners from Tullahoma High School were Kellye Burns and Elecia Herrera.

Kellye is the daughter of James and Kim Burns of Tullahoma. Kellye plans to attend Clemson University in South Carolina to study astrophysics. Upon receiving her undergraduate degree Kellye will pursue her doctorate degree. Kellye desires to go to work for a branch of the U.S. government and ultimately become a research professor at a university.

Elecia is the daughter of Cindy Herrera of Tullahoma. Elecia plans to attend Belmont University

in Nashville to pursue a new field of study called social entrepreneurship. It is Elecia's desire to utilize her degree to help solve complex social problems worldwide.

The Franklin County High School scholarship recipient was Grant Gipson, son of Mickey and Diane Gipson of Winchester. Grant plans to attend the University of Tennessee in Knoxville to obtain a degree in kinesiology with the goal to provide inpatient rehabilitation care in a hospital setting.

The scholarship award winner from Huntland High School is Tyler Strope, son of Michael and Sheila Strope of Huntland. Tyler plans to attend the University of Tennessee in Knoxville where he will pursue a degree in mechatronics, a relatively new field combining engineering, mechanics and electronics.

Following the scholarship presentations, students, guests, and club members watched a slide presentation from Libby Lacock who gave insight into the 1897 Tennessee Centennial Celebration held at the Centennial Park in Nashville. Only the Parthenon and the Nashville City Park, known as Centennial Park, are all that remain of the large acreage the event occupied.

The Woman's Club has awarded scholarships since 2002. Scholarship Foundation Chairperson Suzette McCrorey acknowledged Scholarship Committee members Cecelia Schlagheck, Julie Lanza, Jane Ricci, Monica Skelton and Kate Canady. McCrorey also introduced and thanked Guidance Counselors Lee Brannon from Franklin County High School, Michelle Smith from Coffee County Central High School, and Dr. Brenda Welch from Tullahoma High School. Guidance Counselor Pam Joynt from Huntland High School was unable to attend but was also instrumental in the scholarship award process.

The AEDC Woman's Club is a private organization. It is not a part of the Department of Defense or any of its components and has no governmental status.



AS AN AIR FORCE CIVILIAN, WHERE CAN I FIND HELP?

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

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

Health & wellness planning	AFMC Wellness Support Center	www.afmcwellness.com
Health screenings & education	Civilian Health Promotion Services	(931) 454-6440
Work, personal or family issues	Employee Assistance Program	(800) 222-0364
Mental health & substance abuse	Centerstone	(931) 461-1300
Unplanned pregnancy	Crisis Pregnancy Assistance Center	(931) 728-6440
Suicide prevention	National Suicide Prevention Lifeline	(800) 273-8255
Sexual assault & victim advocacy	Sexual Assault Response Coordinator	(931) 581-7494
Crime victim advocacy	Victim Witness Assistance Program	(931) 454-4657

AEDC Honor Guard conducts flag retirement services



The April 19 flag retirement ceremony at Crockett Cove on Arnold Air Force Base was led by 1st Lt. Joshua Coughenour, Honor Guard Commander, shown standing near the dock, and 1st Lt. Chance Johnson, Detail Commander, back row center. Fellow Guardsmen (left to right) 2nd Lt. Stuart Coston, 2nd Lt. Carlin Lucente and Staff Sgt. Thomas Starling, stand at attention as they pay their final respects to the colors. (Photo by Capt. Sarah Kress)

By Vicki Peters
AEDC Contributing Writer

On April 19, AEDC's Honor Guard had the

privilege of retiring more than 30 U.S. flags from service.

Staff Sgt. Thomas Starling stated that though

most people may not be aware of it, retiring unserviceable flags from service is one of the Honor Guard's duties.

"It's not too often you see the Arnold Air Force Base Honor Guard performing details on base, other than the posting of

colors at base ceremonies," he said.

Starling, a Non-Commissioned Officer in Charge of AEDC's Honor Guard, explained that the flags were destroyed by fire in a dignified manner following proper protocol.

"It's an honor to be part of a ceremony that shows both respect and gratitude toward the emblem of our nation, and all those who have served to defend Old

Glory," Starling said.

He explained that this large number of flags included several 12- by 18-foot flags that have flown outside of the Administration and Engineering (A&E) Building on base as well as unserviceable flags from outside agencies and community members and from collection boxes placed in the Arnold Village and the A&E Building.

Emergency Procedures available for AEDC

AEDC Safety and Health

Don't wait until something goes wrong to learn what to do in an emergency – learn what can go wrong and what to do about it before the job starts.

At AEDC, Emergency Response Procedure Handbooks have an easily distinguishable red-and-white striped cover and are readily available to those with a need to know. These response handbooks are located in each work area supervisor's office and in each plant or test unit control room throughout the industrial work areas.

Although the universal first response in most instances is to call 911, many situations require additional immediate action such as evacuating an area, safing a system, or isolating a spill. The response actions provided in our emergency procedure handbooks include this information along with details written for the specific areas in which they are located.

According to AEDC Safety, Health and Environmental (SHE) Standard A2, Mishap Investigation and Reporting, Emergency Response Procedure Handbooks address proper notification, emergency responses, and emergency shutdown actions required should a mishap occur such as fires or explo-

sions; injury or sudden illness; equipment or property damage; a near miss or spills.

Emergency procedures are developed to guide operators and others when a quick response is needed. SHE Standard B1, Master Work Permit (MWP) specifies that the MWP Issuing Official make contact with crews already working when circumstances and conditions change and alert work crews to the appropriate emergency work procedures. To do this, emergency procedures must be readily available to the MWP issuing officials.

Note that the MWP issuing official will alert crews to the emergency work procedures. This can be done in several ways including, but not limited to, maintaining a copy of procedures for crews to review; advising crews to review procedures and directing them to the source (electronic, hard copy, supervisor's office, etc.) where they can be found.

The MWP issuing official is not responsible for briefing or explaining emergency procedures. It's up to each of us to learn what to do in an emergency situation. Questions on specific area procedures should be directed to the responsible person whose name appears on the cover of the handbook.

Elrod explains 'it's all about presentation'



Dr. David Elrod (standing), Senior Vice President of Business Development at Jacobs Technology, shares insights and wisdom in the art of delivering effective presentations with the Integrated Test and Evaluation Departments' Encouraging Ambition and Generating Leadership Excellence (EAGLES) Career Development Group on April 18. (Photo by Laurie Winton)

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comes into play.

"The fire support AEDC is most focused on providing is referred to as Close Air Support (CAS), which is delivered by the many combat air platforms we test and support here," he said.

Having been on the ground in Afghanistan during one of his tours overseas, Holt said CAS was a "saving grace" to him and his fellow soldiers.

He explained in February 2006 his team's mission changed in Afghanistan and troops were sent to Sangin in Helmand province, known for being a dangerous area, to restore security there. Several casualties occurred while there, but according to Holt, the number of soldiers killed in action would have been much higher if not for the CAS they received.

Holt asked everyone in attendance at the event not to take their work for granted.

"From a warfighter's perspective, what you do here does make a difference, and on behalf of the warfighters of this great nation who have benefited from close air fire support, thank you for your dedication and hard work," he said.

In addition to Holt's presentation, guest speakers with the Air Force Office of Special Investigation (AFOSI) and the Federal Bureau of Investigation (FBI) addressed other security matters. They touched on topics such as elicitation and being aware of adversaries' attempts to obtain information.

Steve Pearson, ATA general manager, thanked Holt for taking time to speak to AEDC personnel regarding his personal experiences.

"AEDC has had the unique opportunity of hearing from one of our own, Col. Warner Holt, who is both a warfighter and an AEDC service provider," Pearson said. "Col. Holt was willing to share one of the most difficult aspects of his warfighter experience — losing fellow soldiers under heavy enemy fire. He

very effectively delivered the message that without the capabilities tested and developed at AEDC, battlefield losses would be much greater for both U.S. and allied troops. We received a clear message that AEDC does 'make a difference,' especially in terms of Close Air Support (CAS) for our troops. Our part in the national security mission is to deliver superior, uncompromised capabilities for our warfighter, when and where needed."

Pearson also emphasized that security is first and foremost the responsibility of the individual.

"Effective security of operations at AEDC requires an individual mindset, recognizing that we are personally responsible for protecting critical information as part of our daily jobs," he said. "It also requires being aware of our surroundings — observing and reporting when something 'Just Doesn't Look Right.'

"The AEDC Security Fair was successful in raising security awareness for those who were able to attend, but continuous emphasis is needed to ensure heightened security awareness becomes, on an individual basis, our normal mode of operation."

ATA Industrial Security/Information Protection Manager Jeannie Bowden noted the message provided at the AEDC Security Fair is definitely one for all to remember.

"AEDC leadership provided us with an opportunity to experience a greater sense of appreciation for those who allow us to go on living our comfortable lives at home and at work, while they face unimaginable emotional and physical experiences in an effort to provide and defend freedom for those who love and desire it so much here and around the globe — we cannot thank them and their families enough," Bowden said.

Bowden mentioned the

Security Fair had a positive response and more than 500 attended during the three day event.

AEDC TSD-IP Information Security Manager Jack Glasser added that the Security Fair was a great opportunity for AEDC personnel to hear about "real world" events, specifically where AEDC support is essential to the safety and security of our warfighters.

"Col. Holt's briefing was a spot-on security message, stressing how what we do at AEDC ulti-

mately brought him home safely from Afghanistan," Glasser said. "It seemed ironic that several times Col. Holt thanked us, when we should be thanking him and all of our warfighters for putting themselves in harm's way to protect and help people that may not even necessarily agree with our country's way of life. As an American, I can appreciate the hard work and dedication of our AEDC workforce better, knowing that we support 'our nation's finest.'"

"We also appreciate the message from AFOSI and FBI for sharing information about actual attempts by foreign entities to obtain information from AEDC personnel and for their reminders regarding elicitation techniques. Our raised awareness will help thwart the threat of information loss. Strong leadership is an essential part of effective security. We appreciate Col. Toth and Mr. Pearson for their approval and support to this great event."

AEDC quarterly award winners announced



2nd Lt. Zahi Abi Chaker
Company Grade Officer of the Quarter



Master Sgt. Jeremy Dinsmore
Senior Non-Commissioned Officer of the Quarter



Tech. Sgt. Heather Yates
Non-Commissioned Officer of the Quarter



Staff Sgt. Thomas Starling
Honor Guard of the Quarter



Geneva Hurley
Civilian of the Quarter
Clerical/Technical Support



Karen Hillstead
Civilian of the Quarter
Administrative



Vivian Auer
Civilian of the Quarter
Scientist/Engineer



Serena Penn
NAF Employee of the Quarter
Custodial Worker, Services Administration
Category I



Cynthia Young
NAF Employee of the Quarter
Operations Assistant, Arnold Lakeside Center
Category II



Adam Plondke
ATA Customer Service (Internal) Award
Integrated Test and Evaluation



Joel Nalin
ATA Customer Service (External) Award
Integrated Test and Evaluation



Joe Migliaccio
ATA Customer Service (External) Award
Integrated Test and Evaluation

Scott receives People's Choice Award

Mike Scott, an ATA test director with the Integrated Test and Evaluation Department, recently received the William M. Dunne People's Choice Award for the first quarter of 2014.

Scott, who is a Murfreesboro resident, was recognized for his excellent contributions in testing capabilities for AEDC's Space and Missile Test Branch.



Mike Scott

that he crafted an innovative out-of-the-box solution for customers based on his deep understanding of test capabilities.

His abilities were recognized in the creation of cost estimating tools, concise data capture, tracking and forecasting for fiscal planning.

Scott was also acknowledged for his mentorship and resourcefulness. The award nomination cited



Milestones



Harry Buckner



Kim Dawson



Brian Monroe
ATA Mission Support,
Structural Engineer, 35
years

Brian Bennett, ATA
James Bennett, ATA
Allen Davis, ATA
Johnnie King, ATA
Joseph McCabe, ATA
Barry McCann, ATA
Patrice McCann, ATA
Frank Powers III, ATA
Carter Putman Jr., ATA
Ronald Turner, ATA
Barry Williamson, ATA

25 YEARS
Mary Bryant, ATA
Jeffrey Earls, ATA
Pamela Limbaugh, ATA
Annette Painter, ATA
Michael Ramsey, ATA
Scott Wieland, ATA

20 YEARS
Barry Benson, ATA
Brian Edinger, ATA
Autumn Standley, AF

15 YEARS
Dawn Goodwin, ATA

10 YEARS
Thomas King II, ATA
William Overcast, ATA
Jeffrey Staines, AF

5 YEARS
Marshall Alexander, ATA
Dustin Fleenor, ATA
Kevin Glaser, ATA

INBOUND MILITARY
2nd Lt. Roy Fisher, AF

OUTBOUND MILITARY
1st Lt. Carl Tegtmeier, AF

RETIREMENTS
Ricky Arnold, ATA
Richard Bayer, ATA
Jerry Kitchen, AF
Robert Rogers, ATA
Dwayne Strickland, ATA

NEW HIRES
Gary Anderson, ATA
Kimberly Arnold, ATA
Brandon Berridge, NAF
Garrett Caldwell, NAF
Ashley Colvin, AF
Christopher Curnes, ATA
Marty Finney, ATA
Hunter Fly, NAF
Patrick Grogan IV, ATA
Ginger Henderson, ATA
Jesse Humbert, NAF
Bernard Kefauver, ATA
James Mitchell, ATA
Geogroy Nieman, ATA
Deidre Ortiz, ATA
Gregory Porter, AF
Zachary Russo, ATA
Varonica Stewart, NAF
Christopher Taylor, ATA
Deidre Weahunt, NAF
Eugene Zimmerman, ATA

PROMOTIONS
1st Lt. Joseph Achenbach
Dan Bess, ATA
1st Lt. Stuart Coston
Charles Dye, ATA
1st Lt. Benjamin Hoff
Charles Lester, ATA
1st Lt. Michael Parmentier
Brian Shields, ATA
1st Lt. Julie Sung
Capt. Paul Malone
Barry Williams, ATA
Lt. Col. Aaron Woodard

What is your most memorable AEDC moment during your years of service?

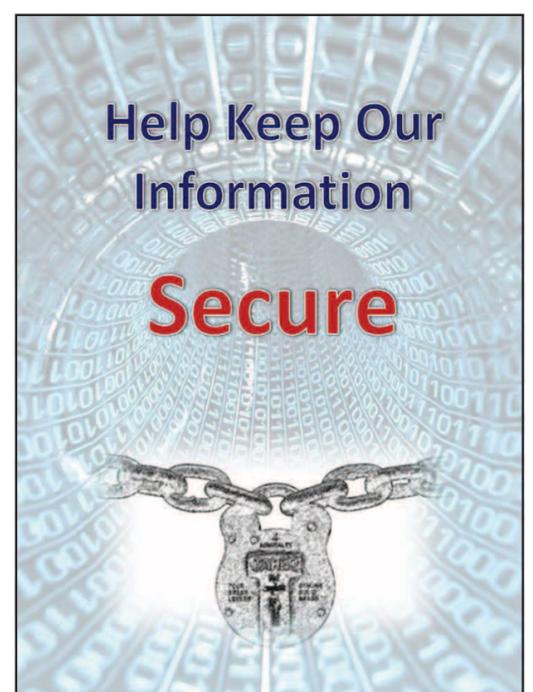
"Over the years I have been able to work with extremely talented people who make my job enjoyable. Being able to work on a job where you can see your success is satisfying. Whenever you interface with craft personnel, construction managers, system engineers, design engineers and designers, you try to listen to their views to provide a workable product. That can be challenging, but rewarding! Thanks to all who have helped me be an engineer that you could trust to provide a successful design product."

45 YEARS
Bob Lawrence, ATA

40 YEARS
Harry Buckner, ATA

35 YEARS
Kim Dawson, ATA
Joel Mansfield, ATA
Brian Monroe, ATA

30 YEARS
Roy Babb Jr., ATA





Woodward promoted to Lt. Col.

During a recent promotion ceremony at AEDC, Aaron Woodward (center), the director of the Arnold Air Force Base Staff Judge Advocate Office, was promoted to the rank of lieutenant colonel. Woodward's sons Logan Woodward (left) and Caleb Woodward (right) pin on their father's new rank as Master Sgt. George Allen looks on. Woodward's ceremony was also attended by his wife Laurie Woodward, and his parents Robert and Vicki Woodward. (Photo by Jacqueline Cowan)



Retiree Ricky Arnold walks home

After 33 years of service at AEDC, ATA retiree Ricky Arnold takes the scenic nine-mile route home to Hillsboro by walking. Arnold, an electrician in the ATA Test Assets and Support Department, commented that he thought he would enjoy walking home on the day of his retirement. Arnold, donned in walking attire at the main gate after his retirement celebration on April 30, reflects before beginning his trek. (Photo by Vickie May)

Free Girl Scout Cookies presented at AEDC

By Raquel March
ATA Public Affairs

Girl Scout Cookies are seen in multiple places; from your local girl scout to grocery stores in coffee creamer to ice cream. Now they are showing up in shipments to deployed troops.

Local Girl Scout Troop 2994 recently visited the AEDC STEM Center and presented different varieties of Girl Scout Cookies to AEDC's Capt. Brett

Ramnarine, who's been deployed several times.

Ramnarine accepted the cookies for deployed troops and thanked the Girl Scouts. He also expressed the effect of receiving this type of generosity.

"Deployed troops receiving Girl Scout Cookies shows that our dedication and sacrifice does not go unnoticed and that there are organizations out there that care about our morale, welfare and what we do," Ramnarine

said. "In addition, we get a piece of home and the much needed sugar to get through the long and stressful days."

Girl Scout Troop Leader Jennifer Nicholson made arrangements for the donation by making contact with AEDC personnel.

"My girls decided to donate Girl Scout Cookies to the troops [who are] deployed because they wanted to show our appreciation for their sacrifice," she

said. "I talked with three different employees at the base along with emails to ensure the cookies would be shipped to the deployed troops."

The cookies will be mailed as part of a care package through the Airman Family and Readiness branch to Airmen currently deployed around the globe.

While visiting the AEDC STEM Center, the troop built and launched straw rockets and viewed the Discovery Dome for a full planetarium experience.

