DebriSat data obtained from destruction

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 DebriSat, 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 that can produce hypervelocity impacts. The test was successful and provided valuable data on the effects of space collisions on satellites.

First industry day held for Facility Support Services contract

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 won by AEDC sources.

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.

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Arnold Police reminds motorists and motorcyclists to share the road

For AEDC riders, Motorcycle, Motor Scooters Moped PPE requirement includes:

- Only operators may ride mopeds – no passenger.
- Headlights (when equipped): All mopeds, motor scooters, and motorcycles must have headlights turned on all times when operating on a DOD installation or off-road, except when prohibited during nighttime, CW try drive, local heat or nation local.
- Rear View Mirrors. Motorcycles will have rear view mirrors mounted on the handlebar or fender below the rider.
- Windshield Protection. A windshield is required for motorcycles.
- Foot Protection. Sturdy, hard-soled shoes that provide good traction to be worn even when operating in designated smoking areas.
- Eye Protection. Goggles, wrap around or spectacles with Z87.1, or UNECE 22.05 or BS6658 standard, that meet current Federal Motor Vehicle Safety Standards. Specifications can be found at the following website: www.eceans.org and need to be certified for use in California by the California Department of Motor Vehicles.

All drivers must follow the workplace behaviors outlined above. Inattention, receipt of a citation, or verbal command to stop for an inspection may result in the temporary or permanent suspension of driving privileges within the Air Force. Additionally, Suspension of driving privileges in any jurisdiction is cause for termination.

Requirements for wear of personal protective equipment (PPE) required in non-designated smoking areas are

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Drivers should:
- Be on the lookout for motorcyclists at all times;
- Signal all lane changes and turns, and use their lights when turning or blinds spots while proceeding;
- Be fully focused on the task of driving and in control of their vehicles at all times;
- Never drive impaired by alcohol or drugs.

Riders should:
- Obey all traffic laws and be properly licenced;
- Wear a DOT-compliant helmet and use reflective tape and gear to be more visible;
- Never ride while impaired or distracted;
- Wear appropriate protective clothing and equipment; and
- Obey posted speed limits.

Smoking Policy

AEDC, under the exclusive written contract, is a private commercial enterprise that is not connected with the Department of the Air Force. Contractors in support of AEDC may be prohibited from smoking in certain areas.

Of the 1,617 NHTSA estimates are working closely with CW Resources (an AbilityOne contractor) to provide employment opportunities for veterans. As we transition into the new contracts, CW Resources is working with AEDC to expand its workforce and finding new opportunities to hire veterans. The transition is the result of all efforts and is intended to provide employment opportunities for veterans. The new contracts, approved by the DoD Office of Small Business, and for AEDC are expected to create a total of 1,000 new jobs for veterans.

The transition is a key part of the Air Force’s effort to meet the needs of the nation’s veterans. The FSS contract is being awarded to CW Resources, a service-disabled veteran owned small business and is the result of all efforts and is intended to provide employment opportunities for veterans. The new contracts, approved by the DoD Office of Small Business, and for AEDC are expected to create a total of 1,000 new jobs for veterans.

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Spring Safety Campaign seeks to involve everyone

By Deidre Ortiz
ATA Public Affairs

"Security is key to mission success," he said. "AEDC was the only facility that could provide the kinetic energy that was high enough to cause the catastrophic destruction of the satellite," said Col. David Woods, Range G Manager. "On May 12, 2014, the Iridium 33 (I33) satellite used in the AEDC Range G Impact Test (SOCIT) was located at AEDC and was scanned at the model shop. A stator blade, the stationary section of the fan, was also located, and the same process was used to complete the fan model."
Special Olympics 2014

(Photos by Rick Goodfriend)
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 Phongsa and Luke Blackburn.

Ling-ling is the daughter of Anouxa Phiakeo and Viengvilay Phongsa 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 doctoral 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 Herron 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 Gibson, son of Mickey and Diane Gibson of Winchester. Grant plans to attend the University of Tennessee in Knoxville to obtain a degree in mathematics with the goal to provide inpatient rehabilitation care in a hospital setting.

The scholarship award winner from Huntland High School in Tyler Strope, son of Michael and Shelia 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 Lucas 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 Cecilia Schlagheck, Julie Laner, Jane Ricci, Monica Shalton 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 Welsh 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.
AEDC Honor Guard conducts flag retirement services

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

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 explosions, 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 official.

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.
the heavy enemy fire. He losing fellow soldiers unwarfighter experience – difficult aspects of his to share one of the most “Col. Holt was willing provider,” Pearson said. and an AEDC service hearing from one of our unique opportunity of speak to AEDC personnel Holt for taking time to general manager, thanked general information. attempts to obtain inforing aware of adversaries’ such as elicitation and be They touched on topics regarding elicitation tech attempts by foreign enti information about actual ceremonies. Our raised aware- ness will help thwart the threat of information loss. Strong leadership is an essential part of effective security. We appreciate Col. Toth and Mr. Pear- son for their approval and support to this great event.”

May 12, 2014 • 7

Elrod explains ‘it’s all about presentation’

SECURITY from page 3

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. Having been on the ground in Afghanistan during one of its tours overseas, Holt said CAS was a “saving grace” to him and his fellow sol- diers.

He explained in Febra-uary 2006 his team’s mis- sion changed in Afghan- stan and troops were sent to Sangin in Helmand province, known for be- ing a dangerous area, to restore security there. Several casualties oc- curred 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 differ- ence, and on behalf of the warfighters of this great nation who have benefited from close air fire support, thank you for your dedi- cation and hard work,” he said.

In addition to Holt’s presentation, guest speak- ers with the Air Force Office of Special Inves- tigation (AFOSI) and the Federal Bureau of Investi- gation (FBI) addressed other security matters. They touched on topics such as elicitation and be- ing aware of adversaries’ attempts to obtain infor- mation.

Steve Pearson, AFA general manager, thanked Holt for taking time to speak to AEDC personnel regarding their personal ex- periences. Holt has had the unique opportunity of hearing from one of our own. Warrant Officer Holt, who is both a warfighter and an AEDC service provider,” Pearson said. “Col. Holt was really sharing one of the most difficult aspects of his warfighter experience — losing fellow soldiers un- der heavy enemy fire. He very effectively delivered the message that with- out 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 skills ‘make a difference,’ especially in terms of Close Air Sup- port (CAS) for our troops. Our part in the national security mission is to deliver superior, uncon- trolled capabilities for our warfighter, when and where needed.”

Pearson also empha- sized that security is first and foremost the respon- sibility of the individual. “Effective security of operations at AEDC requires an individual mindset, recognizing that we are personally respon- sible for protecting criti- cal information as part of our daily jobs,” he said. “It also requires being aware of our surroundings – observing and report- ing 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 en- sure heightened security awareness becomes, on an individual basis, our norma- l mode of operation.”

ATA Industrial Security/Information Protection Manager Jeannie Bowden noted the message provid- ed at the AEDC Security Fair is definitely one for all to remember. “AEDC leadership provided us with an oppor- tunity to experience a greater sense of apprecia- tion for those who allow us to go on living our com- fortable 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 posi- tive response and more than 500 attended during the three day event. AEDC TSD-IP Infor- mation 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 Afghan- stan,” 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 appreci- ate the hard work and dedication of our AEDC workforce better, know- ing that we support our nation’s finest.”

“We also appreciate the message from AFOSI and FBI for sharing in- formation about actual attempts by foreign enti- ties to obtain information from AEDC personnel and for their reminders regarding elicitation tech- niques. Our raised aware- ness will help thwart the threat of information loss. Strong leadership is an essential part of effective security. We appreciate Col. Toth and Mr. Pear- son for their approval and support to this great event.”

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)
AEDC quarterly award winners announced

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. Scott was also acknowledged for his mentorship and resourcefulness 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.

Mike Scott
Scott receives People’s Choice Award
### Milestones

- **Harry Buckner**
  - ATA Mission Support, Structural Engineer, 35 years
  - 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.”

- **Kim Dawson**
  - ATA Mission Support, Structural Engineer, 35 years

### Promotions

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<td>Michael Parmentier</td>
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<td>Capt.</td>
<td>Paul Malone</td>
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<td>Lt. Col.</td>
<td>Aaron Woodard</td>
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### 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 Bertridge, NAF
- Garrett Caldwell, NAF
- Ashley Colvin, AF
- Christopher Curnes, ATA
- Marty Faney, ATA
- Hunter Fly, NAF
- Patrick Gregson IV, ATA
- Ginger Henderson, ATA
- Joseph Hambard, NAF
- Bernard Krueger, ATA
- James Mitchell, ATA
- Gregory Nieman, ATA
- Dieter Ontie, ATA
- Gregory Potter, AF
- Zachary Russo, NAF
- Varonica Stewart, NAF
- Christopher Taylor, ATA
- Dexter Whribald, NAF
- Eugene Zimmerman, ATA

### Promotions

- 1st Lt. Joseph Achenbach
- Dan Bess, ATA
- Lt. Stuart Coston
- Charles Dye, ATA
- Lt. Benjamin Hoff
- Charles Lazier, ATA
- Lt. Michael Parmentier
- Brian Shefish, ATA
- Lt. Julie Sung
- Capt. Paul Maloney
- Barry Williams, ATA
- Lt. Col. Aaron Woodard
By Raquel March
ATA Public Affairs

Girl Scout Cookies are seen in multiple places; from your local girl scout to grocery stores to 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.

{quote}
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 got a piece of home and the much needed sugar to get through the long and stressful days.”
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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 because they wanted to show our appreciation for their sacrifice,” she said. “We 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.

Woodward promoted to Lt. Col.

During a recent promotion ceremony 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)

Retiree Ricky Arnold walks home

After 23 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)