AEDC Wind Tunnel upgrade improves flexible nozzle accuracy and reliability

By Raquel March
ATA Public Affairs

AEDC’s aerodynamic customers will have added assurance of smooth Mach number transitions due to recent upgrades underway in the Propulsion Wind Tunnel’s (PWT) four foot transonic wind tunnel called 4T.

An AEDC operations and maintenance team recently completed the mechanical installation of new flexible nozzle actuators in a series of updated upgrades for 4T, a continuous-flow, infra-red facility used for conducting small-scale aerodynamic tests and aerodynamic loads generated while testing.

“Flexible nozzle actuators are electro-mechanically driven ball-screw jacks which move the flexible top and bottom plates in the 4T tunnel providing variable Mach numbers or wind speeds. They will provide precise movement of the flexible plates and the ability to better handle the bending stresses and aerodynamic loads generated while testing.

“There are 15 actuators on both the top and bottom plates providing a ‘mirror image’ of the system, said Doug Reiff, an ATA PWT 4T modernization project manager. “These actuators are similar to the ones that were recently installed in VKF (von Karman Gas Dynamic Facility).

Another upgrade to 4T’s flow capability includes a new flexible nozzle actuator/controlling system (NCS) like the system utilized in the complex’s VKF wind tunnel A which is also equipped with a flexible nozzle.

The NCS is currently being installed and has an operator interface that will allow the operator to position the nozzle plates. Testing for this system and diagnostic control system problems.

The NCS also has a positioning program which provides closed-loop control for the nozzle actuators. The protection system in the NCS continuously monitors the hardware and software performance health and plate stress to protect the nozzle plates from damage.

The 4T modernization team was able to rely on in-house expertise for developing the NCS. AEDC’s ATA support contractor’s Manufacturing Services section fabricated and installed the NCS cabinets and hardware. The ATA Instrumentation and Controls Systems Design section developed the NCS software while the facilities & Test Techniques section created simulation software. The Flight Systems Simulation software allows AEDC to quickly respond to any repairs or modifications which may be required.

The AEDC team supports testing of GE engine in J85 facility

By Kathy Gattis
ATA Public Affairs

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The AEDC Visitor Center’s Defense Enrollment Eligibility Reporting System (DEERS) and Real-Time Automated Personnel Identification System (RAPIDS) service will be unavailable May 20-21 due to hardware upgrades.

The Visitor Center will not be able to issue a Common Access Card (CAC) or military identification (ID) for AEDC personnel, active duty, retirees, family members, Guard and Reserve. AEDC personnel needing an ID card or a CAC should make arrangements before the upgrade dates. Non-AEDC personnel may contact the visitor center at 454-5451 to obtain a list of other military ID service facilities that may be able to provide ID services during the upgrade.

DEERS/RAPIDS are operational programs in support of resources and benefit management, critical defense systems, the Uniformed Services Identification Card program and awareness programs for active duty, retirees, and other military personnel.

DEERS is a computerized database for United States Service members, retirees, dependents, DOD active contractors and others worldwide who are entitled to DEERS. DEERS is used in the RAPIDS to issue the definitive credential within a DOD for obtaining a CAC.

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AEDC’s Visitor Center provides military ID services and base entry services to AEDC personnel as well as area military, retirees, family members and other base visitors.

Prior to a static performance test at the University of Tennessee Space Institute (UTSI) Propulsion Research Facility, Bristol Fancher, an outside machinist in the ATA Technology Branch’s instrumentation and diagnostics group, is inspecting AEDC’s upgraded J85 Augmentor rig coupled to GE’s developmental augmentor assembly, all of which is mounted on the facility’s T-4 thrust frame. The test has two phases, with the first to characterize and evaluate the augmentor’s durability and mission performance. The second phase focuses on instrumentation and diagnostics project activities. These focus on various measurement techniques (optical tail pipe camera stereoscopic imaging and gas sampling techniques) that can be applied to gas turbine engines. (Photo by Rick Goodfriend)
Arnold Police encourage motorist and motorcyclist to ‘share the road’ in May

By Arnold Police Department

May is Motorcycle Safety Awareness Month, and the National Highway Traffic Safety Administration reminds motorists and motorcyclists to ‘share the road’ to help prevent motorcyle crashes.

Such crashes are a leading cause of death and injury on the nation’s roads. For the lookout for increased presence of local law enforcement throughout May. Be sure to motercycle, and drivers of all types of vehicles, are obeying state and local laws.

Motorcyclists are about 30 times more likely to die in collisions than passengers in a vehicle, so whether driving the family sedan, an SUV, school bus, delivery van, or motorcycle, drivers should always look out for motorcyclists. Drivers must be aware that a motorcycle may be one of the smallest vehicles on the road and may not be seen in a vehicle’s blind spots. Always check blind spots, use mirrors and signal before changing lanes or making turns.

This safety advice is particularly timely as motercycle fatalities in 2011 showed an increase to 4,612. Motercycle fatalities accounted for 14 percent of total highway deaths for the year despite the fact that motorcyle registrations representing only about three percent of all vehicles in the U.S. Motorcyclists have responsibilities too. Riders should obey all traffic laws and be properly licensed, alert to other drivers, compliace at all times, never ride impaired or distracted, and always wear appropriate protective gear.

For AEDC riders, PPE requirements include:

• approved helmets for operators of motorcycles – Helmets may be ventilated as long as they meet, as a minimum, DOT standards and are properly worn and fastened. Hard hats are not an acceptable substitute for helmets.
• impact or retrospectively goggle or full-face shields – (the bike is equipped with a windshield equal in height to or above the top of the helmet of the properly upright-seated operator) – brightly colored vest or jacket – (must be reflective at night) – Ventilated jackets are available or a light-weight vest may be worn.
• full face helmets – These too may be ventilated.
• long sleeves; long pants – (no smock of any type)
• sturdy footwear – (over-the-ankle is recommended; no sandals or slick shoes)

Summer is quickly approaching and with it is the prospect of barbecues, outdoor sports, and vacation road trips. I know I am looking forward to many of these activities. Unfortunately, summer can also bring a high price: in off-duty mishaps from sports injuries to boating or travel mishaps. As we enter the Critical Days of Summer, which run from May 24 to Sept. 3, I encourage you to enjoy the many fun opportunities summer has to offer, but to do so by being diligent in practicing safety.

Motorcyclists have a responsibility to ensure the safety of those around them. This safety advice is particularly timely as motorcycle-related fatalities show a continued increase to 4,612. Motorcycle fatalities represented 14 percent of total highway deaths for the year despite the fact that motorcycle registrations represents only about three percent of all vehicles in the U.S. Motorcyclists have responsibilities too. Riders should obey all traffic laws and be properly licensed, alert to other drivers, comply at all times, never ride impaired or distracted, and always wear appropriate protective gear.

Test Center Encourages Safety for ‘Critical Days of Summer’


Air Force Test Center

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AFMC embraces ‘Every dollar counts’, new culture of savings

WRIGHT-PATTERSON AFB, Ohio - Air Force Materiel Command leaders are pledging their support for a new money-saving Air Force initiative dubbed Every Dollar Counts.

In the wake of sequestration and reduced budgets, the initiative calls on Airmen to submit their money-saving ideas as part of a new culture of savings.

“This is an opportunity to respond to a tough situation with creative, lasting solutions,” said Maj. Gen. William A. Bottimer, AFMC commander.

As part of the initiative, there will be a month-long open call for innovative, cost-conscious ideas. From May 1 to June 1, Airmen can submit their proposals.

Proposals can be submitted through eInnovation web sites while at home, at the office or on their smartphones. Links to those sites will be released soon.

Upgrade from page 1

be needed to address unique requirements or changing demands of our test customers,” said Bottimer.

“Airmen are encouraged to determine testing that their customers need and in order to continue, they do not need to support the model back to their home office for the modifications, but can get those modifications done right here at AEDC minimizing both the cost and the impact to their testing schedule.”

A new 4T roll mechanism, designed and fabricated by AEDC’s Model and Machine Shop, has been checked out and is being prepared for installation.

The mechanism will support the sting or test support arm and the test article, provides the ability to roll the test article during a test. It will handle higher loads required when operating the 4T Captive Trajectory Support (CTS) system used to conduct staging or store separation testing.

The nozzle upgrades, along with upgrades to the 4T Data Acquisition System (DAS) and the Captive Trajectory System (CTS), will provide compatibility between 4T, B, A, B and C tunnels for AEDC customers who wish to test their model in both 4T and B, A, B and C tunnels.

“Until now, it also provided a similar look and feel for 4T test crew test crews who conduct tests in both 4T and B, A, B and C tunnels.

The 4T tunnel is scheduled for return to service July 2014.

AFMC embraces ‘Every dollar counts’, new culture of savings

Dr. Don Malloy receives technical AFMC award

By Philip Germain III

The 2013 AFMC Senior Civil Engineer Award was recently presented to Dr. Donald Malloy, professor of Engineering Mechanics and Mechanics of Materials at the University of Tennessee, Knoxville, and member of the faculty of the University of Tennessee at Chattanooga.

Dr. Malloy was specifically cited by the AFMC for his operational impact on AEDC personnel, and for his operational impact on AEDC customers and their programs, including the reduction of risk to major programs.

“Also cited in the award write-up were the innovative ideas that will save millions of dollars in flight testing and the avoidance of millions of dollars in risk to developmental programs. His customer focus, exemplified by his response to customer needs and his attention to cost and schedule control, were also cited.”

“These successes are attributable to the impressive technical abilities of Dr. Malloy and the professionalism and expertise of the AEDC personnel, both government and contractor with whom he works.”

ACC from page 1

Twenty members of Congress have been the causus fecarum for the Every Dollar Counts initiative. The AEDC team has been able to determine, with the help of the Every Dollar Counts initiative, that the nation’s elected officials are ready to work with us as partners.

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AEDC’s Andrew Fist wins AIAA best paper awards

By Philip Lorenz III
ATA Public Affairs

AEDC’s Andrew Fist recently competed in the Masters Division of the 64th American Institute of Aeronautics and Astronautics (AIAA) Southeastern Regional Conference in Raleigh, N.C., and won the first place award with a technical paper titled “Improved Mean Flow Solution for Solid Rocket Motors,” which he coauthored with University of Tennessee Space Institute (UTSI) professor Dr. Joseph Majdalani.

UTSI student Dimitrios Kakavelakis III won second place with a paper titled “Nusselt Number Correlation for Cyclonically-Cooled Liquid Rocket Engines,” which was also coauthored with Dr. Majdalani.

Dr. Majdalani is UTSI’s H.H. Arnold Chair of Excellence in Advanced Propulsion and professor of mechanical and aerospace engineering. Fist, a turbine engine test manager at AEDC, is pursuing a Master of Science degree in mechanical engineering at UTSI.

Fist spoke about the inspiration for the award-winning technical paper.

“The content of the paper stemmed from Dr. Majdalani’s work in flow field analysis, an effort that has been a significant research area at UTSI for almost 15 years,” Fist said.

“Essentially, we looked at an equation that estimates how particles in a solid rocket motor move through the rocket on the way to the nozzle. By making some slightly different assumptions than those made by researchers in the 1950’s and 1960’s, we found that a new solution was possible that described a swirling flow — a flow pattern identified in a number of laboratory experiments over the years.”

Fist added, “I think the key to the success of the paper was the new equation that was nearly identical to a set of solutions (Bessel Function Solutions) that I learned about in Dr. Majdalani’s heat transfer course in the previous semester.”

Fist said working at AEDC for the past three years has also contributed to his success with the technical paper that placed first in the recent competition.

“Working at AEDC has certainly inspired me to try my best to make a lasting contribution to the aerospace community,” he said. “I feel extremely fortunate to have had the support of the Air Force and UTSI even since I arrived here, and I’m hopeful that follow-on work on the topic will bring about more concrete tools for both researchers and industry to use in the coming years.”

Fist said winning the award was an honor, but also a humbling experience.

“It’s always exciting to be recognized for your effort, but more than anything the process has reminded me about how much there is to be learned, and how much I respect the researchers that came before me that had fewer tools to aid them in their work,” he said.

North Carolina State University and the Student Branch of AIAA in Raleigh-Durham, N.C., hosted the 64th Annual Southeastern Regional Student Conference. A total of 170 student delegates from 16 southeastern universities competed this year, an all-time high in the history of Region II.

Participants universities included, Auburn, Embry-Riddle Aeronautical, Florida Tech, Florida State, Georgia Tech, Mississippi State, NCSU, Tuskegee, Alabama (Huntsville and Tuscaloosa), Central Florida, Memphis, Miami, UTSI and Vanderbilt.

As the first place winner, Fist will receive an AIAA supported trip to participate in next year’s international student competition, which will be held in January as part of SciTech 14, in conjunction with the 52nd Aerospace Sciences Meeting in Maryland.

Fist is from Dayton, Ohio with a Bachelor of Mechanical Engineering degree from the University of Dayton. Kakavelakis is from Albuquerque, N.M., and is pursuing a master’s degree in engineering science. He holds a Bachelors of Science degree in pure mathematics from Georgia College & State University, Milledgeville, Ga.
New under secretary sworn in during Pentagons ceremony

WASHINGTON (AFNS) – The Senate confirmed the nomination of Eric Fanning to become the next under secretary of the Air Force April 19 and he began his transition into the office after being sworn in April 29.

Goodbye to the more than 600,000 men and women of the U.S. Air Force. I want to welcome Eric to our Air Force family,” said Secretary of the Air Force Michael Donley. “He will be a tremendous asset to our Air Force and our leadership team. His diverse background in national security matters, coupled with this communications and congressional experience, will enable him to be a champion for our Airmen and their families during this challenging time in the

Butler's previous assignments include serving as the acting secretary, since June of that year, as well as for seven months in 1993, making him the longest serving secretary in the history of the Air Force. Butler also served as the service's top financial officer from 1990 to 1993.

“I have been immensely pleased to serve these last four years with the men and women of the Navy and the Marine Corps, and I look forward to being part of the Air Force family,” Fanning said. “I am honored by this opportunity and look forward to standing beside Secretary Donley in making the men and women of this great service receive the support they need in undertaking the mission of defending our country.”

The Air Force has been without an under secretary since June 2012, when then-Under Secretary of the Air Force Carlton was appointed to under-secretary for Personnel and Readiness. Dr. Jamie Morin was appointed to serve as the acting under-secretary in July 2012. “I want to thank Jamie for his dedication to the team as the acting under-secretary of the Air Force these last six months. His command and determination of complex issues and tireless efforts ensured the best interests of the Airmen, their families and the Air Force remained at the forefront of every decision,” Donley said.

Fanning will also serve as the chief military officer of the Air Force, the senior Air Force energy official, and the focal point for space within Air Force Headquarters.

Fanning served as the deputy under-secretary and chief, management office for the Department of the Navy since 2009. Prior to that position, he was deputy director of the Office of the Deputy Under-Secretary of Defense for Numerical Weather Prediction and Terrorism Fanning joined the commission staff from CSG, a strategic communications firm, where he was manager director. From 2001 to 2006, he served as assistant secretary for Strategic Development at Business Executives for National Security, or BENS, a Washington, D.C.-based think tank, where he was in charge of international programs and all regional office operations in 40 cities across the country.

Previously, Fanning worked at Robinson, Loer & Montgomery, another strategic communications firm. He also worked on the national and foreign assignment desks at CRS National News in New York and has held various political positions in Washington, D.C. He was a research assistant with the House Armed Services Committee, a special assistant in the Immediate Office of the Secretary of Defense, and associate director of political affairs at the White House.

In the meantime, there remains much to do,” Donley said. “I am confident in the strength and professionalism of our Airmen and Air Force Headquarters. I will work diligently and with dedication and determination of General Walsh, Chief of Staff and our military and civilian leadership team, will continue to see our Airmen and their families benefit from his leadership during the many challenges that lie ahead for the Air Force.

I want to thank my colleagues in the Senior Executive Service and the total Air Force civilians. The Air Force has been a way of life for me and our careers. I know it will be bittersweet to say farewell.”

Donley was confirmed as the 22nd Secretary of the Air Force Oct. 2, 2008. He served as the acting secretary, since June of that year, as well as for seven months in 1993, making him the longest serving secretary in the history of the Air Force. Butler also served as the service’s top financial officer from 1990 to 1993.

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AEDC supports SBIR project on pyrophoric fuel valve system

By Philip Lorenz III
ATA Public Affairs

A threat to commercial and military aircraft posed by surface-to-air and more recently, air-to-air missiles is being addressed by a collaborative effort between AEDC and Active Signal Technologies, Inc., on a Small Business Innovative Research (SBIR) project on a programmable pyrophoric fuel and valve system.

The objective of the SBIR project is to refine surface-to-air and air-to-air missile plume simulation with the new system to improve the capabilities of Towed Airborne Plume Simulators (TAPS) to ensure airborne sensors will have the ability to detect and mitigate those threats.

“TAPS has been used in the past for Large Aircraft Infrared Counter-Measures (LAIRCM) system tests at AEDC,” said Dr. Taylor Swanson, AEDC’s space and missiles technology program manager.

“TAPS has been used in the past for Large Aircraft Infrared Counter-Measures (LAIRCM) system tests at AEDC,” said Dr. Taylor Swanson, AEDC’s space and missiles technology program manager. “We have conducted tests on the ground in our RPA4 facility where we have the high speed fan and also in flight tests out of Naval Air Station Pensacola, Fla.” Swanson said. “We have a very good ability to simulate the threat that we want to, namely, surface-to-air missiles.

The new pyrophoric fuel valve system, if proven effective, would become an additional test capability at AEDC.

Pyrophoric fuel is comprised of fuels that ignite when exposed to oxygen. “This is a more representative plume that simulates the infrared signature of a man-portable air defense system (MANPADS), a shoulder-launched surface-to-air missile weapon,” Swanson said. “The overall intensity of the TAPS-generated plume throughout the ‘missile’s trajectory,’ from launch to target acquisition, is controlled by varying the flow rate of the fuel.

“If this new pyrophoric fuel valve allows us to modulate that plume signature over a wider dynamic range – we could go brighter or we could go dimmer and we can modulate that very quickly, what we term frequency content – if this new valve works as planned, TAPS would then be an even more useful test asset.”
Affordability remains a priority for F-35

By Jim Garamone
American Forces Press Service

WASHINGTON (AFP) – Affordability remains the priority for the F-35 Lightning II joint strike fighter, the Pentagon’s program executive officer for fighter, the Pentagon’s pro-

gram executive officer for fighter, the Pentagon’s program executive officer for the Defense Department’s most expensive procurement told Congress recently.

Air Force Lt. Gen. Christopher C. Bogdan told the Senate Armed Services Committee’s airland sub-committee that the program has made progress, but he acknowledged it is enorm-

ously complicated and has a ways to go.

Sequestration complicates the acquisition as well, the general said.

“We must see all our energy finishing develop-

ment within the time and money we have, we must continue to drive the cost of producing F-35s down, and we must start today to attack the long-term lifecycle costs of the F-35 weapon system,” Bogdan said in prepared testimony.

The F-35 comes in three variants and is being used by the Air Force, Navy and Marine Corps. In addition, it will form the backbone of “allied nations’” airpower for decades to come, the general said. He called it “a dominant, multirole, fifth-

generation aircraft.”

“We must use all our leverage possible to control the plan to absorb expected Sequestration compli-

ations within the time frame, and stay on track, so that we continuously learn and discover new ways to reduce costs.”

The general acknowledged that the Pentagon is resourced,” he said.

“Long as it remains properly long term, this investment in the resilience of the basic aircraft design is sound.”

If there is furlough to the program, he has confi-

dence in the resilience of the plan to absorb expected further learning and discov-

ery, and stay on track, as long as it remains properly resourced,” he said.

ATA unveils redesigned website

The ATA website (http://www.aerospacetestingalliance.com) has been redesigned and is now live. The ATA website is an important way for ATA to have a company identity separate from AEDC’s official public website.

All content is publicly releasable and provides a way for you to share insight into the company with family members and friends. The improved site will include information on facilities and projects, photos from employee socials, recognition and service awards and highlights of ATA’s involvement in the community. The site has also been designed for co-op and intern students and other prospective employees as well as vendors to utilize when looking for information on ATA, online applications and business contacts.

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Team AEDC supports annual Special Olympics event

Marcus Conner, with AEDC’s Technology Branch, holds the torch for the opening of the annual Special Olympics Area #13 Summer Games after receiving it from Lincoln County’s torch bearer and an event participant, in yellow. Conner, who is also the president of AEDC’s Junior Force Council, helped coordinate the Special Olympics this year. Torch runners into the stadium are from the Manchester and Tullahoma Police Department. (Photos by Jacqueline Cowan)

AEDC Commander Col. Raymond Toth pins a second place award on the shirt of one of the competitors in the annual Special Olympics Area #13 Summer Games at Tullahoma High School Wilkins Stadium.

AEDC’s Misty Layne, an ATA information technology specialist, pins a first place award on a participant’s shirt during the annual Special Olympics summer event.

BEWARE of CREATIVE DATA THEFT METHODS

BEFORE THE GROUND BEGINS TO SHAKE
KNOW WHAT ACTIONS TO TAKE

wwwشوهدتلاا.png
AEDC quarterly award winners announced

May wins People’s Choice Award

Maurice May, an engineer in the Test Technology Branch, was selected for the William M. Dunn People’s Choice Award. He was recognized for exceptional support to AEDC technology development and customer-developing and demonstrating new technologies and propulsion technologies. He is also recognized for his unparalleled dedication and unwavering support to the J-5 testing activities. He provided outstanding support of the Small Business Innovative Research (SBIR) program and served as a technical point of contact on assorted SBIR efforts and mentored young civilians into SBIR roles. He contributed exceptional support to Air Force Test Center requests for technical information and constantly volunteers to take the lead on new tasks.

ATA quarterly award winners

Team Member of the Quarter

The ATA Team Member of the Quarter is Mickey Gipson. Gipson, a controls engineer in the Information Technology and Systems Department, was recognized for excellence in program management. He was cited as demonstrating outstanding technical leadership while performing duties as the Information Technology System Development Manager and senior controls engineer for the J-4 Solid Rocket Test Facility control system. Gipson’s contributions were also cited as delivering a state-of-the-art control system center for rocket testing that will sustain the operability, maintainability and viability of a national asset.

Craft Team Member of the Quarter

The ATA Craft Team Member of the Quarter is Chris Sloan. Sloan, an HVAC shop working foreman in the Mission Support Department, was recognized for outstanding performance in maintenance and repair of all AEDC HVAC systems. He is also recognized for his excellent leadership on the J-6 Solid Rocket Test Facility cooling system reactivation project. The repairs were completed ahead of schedule with no impact to testing. Sloan was cited for his work productivity, technical knowledge and skills and great communication which contributed to a successful project.

Milestones

50 YEARS

Kathy Beale, ATA Joseph Boyer, ATA Stacey Gumer, ATA Steven Huley, ATA David Presley, ATA

27 YEARS

Mark Rigby, ATA Steve Sullivan, ATA Mary West, ATA

20 YEARS

Peggy Gibson, ATA Alan Swarn, ATA

15 YEARS

Russell Austin, ATA

10 YEARS

Neil Aukerman, ATA Timothy Brown, ATA Michael Cowan, ATA James Crawford, Sr., ATA Karen Morse, ATA Thomas Norbeck, ATA Robert Pati, ATA Stephen Pasaravich, AF Vanessa Pitt, AF Fred Royes, AF Norman Smith, ATA

5 YEARS

David Sanchez, ATA Samuel Stewart, ATA Karmelitha Taylor, ATA Richard Taylor, ATA Timothy Taylor, ATA

INBOUND MILITARY

Sgt Thomas Starling, AF

RETIEMENTS

Gary Beck, ATA

LAURIE CAMPBELL, ATA

WINNIE HOWELL, ATA

PHIL JONES, ATA

BONNIE REED, PREMIER

WILLIAM SICKLES, ATA

DEBBIE TAYLOR, PREMIER

ROBERT THOMSON, PREMIER

NEW HIREs

VALERIE STEACY, AF

PROMOTIONS

JAN BRANDES, ATA

MARTHA DANIEL, ATA

STEVEN UNDERWOOD, ATA
Holt was recognized for his excellent support to the AEDC mission through thorough research and analysis of proposed testing alternatives.

Wright was recognized for demonstrating superior knowledge and professionalism in project management relating to data validation and analysis.

Butler was recognized for displaying excellent administrative skills and customer focus for the Aerodynamics and Propulsion Test Unit facility.

Cowan was recognized for outstanding test model fabrication support and ensuring excellent customer satisfaction with each phase of work.

Dement was recognized for outstanding work ethic exhibited during disassembly, inspection and assembly of motors in the Propulsion Wind Tunnel facility.

Zimmerman was recognized for outstanding management of a training program and dedication to saving lives and protecting AEDC’s unique assets.

Ray was recognized for exhibiting excellent job performance and suggestions for continually improving fabrication and installation processes.

Toll was recognized for excellence in proficient and knowledgeable instrument technician security assistance for an Air Force Research Laboratory customer.

Baltz is recognized for his outstanding technical support in meeting all GS requirements for advanced augmentor testing.

Limbaugh was recognized for her exceptional processes in managing the cost transfer system in the Test Asset Services and Missions Support departments.
By Senior Airman Joe McFadden

HURLBURT FIELD, Fla. — Three Force leaders spoke to dozens of Airmen April 18 here, marking the 71st anniversary of when they and their fellow Airman took to the skies in the middle of U.S. war effort. The visit also marked the last public reunion of the Doolittle Raiders.

Retired Lt. Col. Rich Cole and Edward Saylor and former Staff Sgt. David Thatcher spoke alongside 77 fellow U.S. Army Air Corps Airmen taking off in 16 B-25s in the April 18, 1942, bombing over Japan known as the Doolittle Raid.

The raid, designed and led by then Lt. Col. James Doolittle, served as the first air raid by the U.S. military in response to the Dec. 7, 1941, Japanese attack on Pearl Harbor, while bolstering the morale of the American public and instilling doubt among the Japanese people.

“This is once-in-a-lifetime opportunity,” said Col. William Holt, vice commander of the 1st Special Operations Wing, before introducing the Raiders. “In my 22 years in the Air Force, I never imagined I’d be standing in front of three Doolittle Raiders. Without a doubt, this is the highest honor I’ve had.”

After the three Raiders entered the squadron through a sword cordon from the Hurlburt Field Honor Guard, the Airmen in the audience opened the discussion by asking questions about their memories and impressions of the raid’s critical role.

“Colonel Doolittle was a very persuasive individual,” said Cole, who served as his co-pilot on the lead aircraft. “He was very charming. He treated everyone with respect and was very polite. He was a team person, and it vibriated throughout all 80 people.”

Cole also described Doolittle’s dedication to his leadership.

“Outside of being in awe of him and being able to fly with him, we observed the way he treated his people. ‘For instance, he would go to an air base and would not leave the airplane until the crew chief had finished gassing it up and doing the things that needed to be done. He’d make sure the crew chiefs were taken to their barracks before he was taken to his. It indicated to me that he treats his people in a very, very polite way.’

“Prior to leaving the continental U.S., the Raiders spent a portion of the training for the mission at what is now Eglin Air Force Base, Fla., for weeks of intensive training in March 1942. Given the base’s proximity to the water, one Airman asked if the trainees were going to be able to take the airplane into the water, one Airman asked if the trainees were going to be able to take it from the water, and another, ‘What if we could takeoff from a carrier?’

“We thought we were being trained to some place with a different carrier so we could takeoff and go to an island some place in the Pacific and land and fight the Japanese island of Honshu, with none of the U.S. aircraft being gunned down. While heading across the whole East China Sea, the Raiders had to handle conditions both during the flight and in their sneak landings in China and the then-Soviet Union, under the threat of possible capture by enemy forces. ‘I would advise you to be prepared as much as possible for any situation,’ said Saylor.

“When they announced over the loudspeaker our target was Japan, there was a huge shock that went all over the carrier,” said Thatcher, who served as the engineer and gunner in the raid. ‘No one knew where we were supposed to go, especially the Navy personnel.’

“We all volunteered, and I went knowing what it was,” said Saylor, then an engineer. “My feeling was that I hope I could do the job as well as it needed to be done. The responsibility of the airplane was very heavy on my mind. That’s how I felt about going in – I hope I could do the job.”

The air raid stormed over the Japanese island of Honshu, with none of the U.S. aircraft being gunned down. While heading across the whole East China Sea, the Raiders had to handle conditions both during the flight and in their sneak landings in China and the then-Soviet Union, under the threat of possible capture by enemy forces. ‘I would advise you to be prepared as much as possible for any situation,’ said Saylor.

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The air raid stormed over the Japanese island of Honshu, with none of the U.S. aircraft being gunned down.
Through Airmen’s Eyes: The return and walk toward flight

By Airman 1st Class Michelle Vickers

1st Special Operations Wing Public Affairs

HURLBUTT FIELD, Fla. (AFNS) – There’s a saying – “a journey begins with a single step.”

For a flight engineer assigned to the 8th Special Operations Squadron here, even a single step seemed like a lofty goal at one time.

After Tech. Sgt. Christopher Curtis’ CV-22 Osprey crashed during a mission in Afghanistan in April 2010, he was left with numerous serious injuries and uncertainty surrounding whether he would walk again.

Now, almost three years to the date of his crash, he has returned to the sky.

“We crashed and lost the aircraft, but more importantly lost four individuals along with it,” Curtis said. “Since then, I’ve obviously been on the road to recovery. Seventeen broken bones will do that to you.”

After being evacuated from the battlefield to Landstuhl Regional Medical Center, Md., where he awoke from a coma from the beginning of his recovery, Curtis said he decided not only would he walk again, but he would walk through the doors of his squadron.

“I was in the surgical intensive care unit when someone asked me, ‘Are you going to get back up again?’” Curtis said. “I said, ‘Not only am I going to get back up – goal number one (is) to walk through my squadron’s doors.’ I did happen to accomplish that the same year, October 2010. Then they asked, ‘What’s your second goal?’ And my second goal was literally today, it was to fly again.”

Curtis said his natural mental resiliency was further strengthened by the encouragement he received from visitors and other wounded warriors while in the hospital.

“A lot of folks at Walter Reed come in to visit me and share their experiences of the do’s and don’ts of getting better, and I learned to basically just stay positive,” Curtis said. “Having positive not only will it help you mentally, it will help you physically.”

After leaving WRAMC, Curtis was sent to Brooks Army Medical Center in San Antonio, Texas, for the next almost year-long stage of his recovery. His physical resiliency was refined as he received therapy to help him achieve milestones like being able to prepare his own meals.

“Now, reflecting back on the countless hours of physical therapy, the result was worth it,” Curtis said.

“I feel great, but at the same time I do feel remnants of that pain,” Curtis said.

The care providers, therapy he received and even comments from sayayers who were integral to his recovery, “I said ‘Without them I wouldn’t even be close to here.”

Once back at Hurlbutt Field, Curtis worked with his unit to determine if he was physically capable of returning to his job as a flight engineer responsible for maintaining the health of the CV-22 during flight.

“As he geared up for his first training flight, there were no visible jitters, just a steady stumble with putting on a new type of harness, the only indication Curtis had spent any time away from flying.”

“I just did what normally do, what I remember doing about the mission and my role, everything the Air Force taught me,” Curtis said describing his preflight preparations.

While some questioned Curtis’ drive and dedication to return to his job, his mental strength helped him push aside any doubts.

“The only indication Curtis had spent any time away from flying.”

“I felt (in my) body and mind this is where I need to be and what I need to do,” Curtis said.

After the flight, though, Curtis had yet to hear his instructor’s evaluations of his performance, both were all smiles.

“Isn’t that me getting in the air,” Curtis said post-flight. “It’s saying that I’ve made it this far physically, and mentally, as a bigger success. Flying, in the end, is something I always loved and will continue to do. I won’t ever forget the path it took and the people I’ve met to get to this point.”

Now in the position to pay it forward by relaying encouragement he received and even comments from sayayers who were integral to his recovery, Curtis offers what helped him most to get through his own challenges.

“Continue to stay positive and establish challenging but attainable goals,” Curtis said. “More importantly, you understand that you will have good days and bad days, but stay the course as it will pay off in the end.”

On the road to regaining his flight qualifications, Curtis now looks forward to the normalcy of returning to the job he loves.

Next on his radar: being assigned as part of aerie to charged with accepting new aircraft for the Air Force.

RAIDERS

From page 13

school in Montana and enlisted Dec. 7, 1939. He served both in the United States and overseas throughout the war until March 1945. He accepted a commission as an aircraft mainten- ance officer in October 1947.

He is the recipient of Distinguished Flying Cross, Air Force Commendation Medal and the Chinese Army, Navy, and Air Corps Medal.

Thatcher graduated high school and enlisted in De- cember 1940. After the raid, he served in England, Africa and California before being discharged from active duty in July 1945.

The recipient of the Silver Star Medal, Disting- guished Flying Cross, Air Medal with four oak leaf clusters and the Chinese Army, Navy, and Air Corps Medal, Class A, 1st Grade. All three Raiders were present for the national re- union parade in Fort Wal- ton Beach April 20.
ALC and ODR Fishing Rodeo set for June 22 at Crockett Cove

The Fitness Center will host the Golden Baton Relay June 19 at 8 a.m. at the Arnold Lakeside Center.

Each team member must complete two separate three-hourenda before progressing to the next baton to the next runner. Team members must have a total age of at least 120 and one time-keeper. Teams may select appropriate and may bring their own baton or use batons provided by Outdoor Rec.

The first six teams to sign up will receive $10 gift cards. Prizes will also be given for the most creative team name, best team costume and overall team speed. Call 454-3990 to sign up for more details.

Brushes and Bottles parties continue at GLC

Arnold Lakeside Center’s new monthly event will be held June 22 at 6 p.m. at the GLC June 14.

To bring you a better and more creative experience before progressing to "Brushes and Bottles" painting party will be held for the participants to enjoy.

All payments are for artwork with the U.S. Air Force, under exclusive written contract with Aerospace Testing Alliance (ATA). This Services supplement is published by The Tullahoma News, a private firm in no way connected to a Services Division publication designed to inform our membership.

All branches are eligible to participate. Outdoor Rec will conduct a processing. Outdoor Rec will conduct a contest. Outdoor Rec will also provide presence houses from 2:30-5:30 p.m. for everyone’s enjoyment throughout the afternoon. All participants are required to bring their own fishing equipment, bait, chars, snacks, etc. Bottled water will be provided for your enjoyment.

Other awards and door prizes will be presented upon completion of the contest. Outdoor Rec will also provide presence houses from 2:30-5:30 p.m. for everyone’s enjoyment throughout the afternoon. All participants are required to bring their own fishing equipment, bait, chars, snacks, etc. Bottled water will be provided for your enjoyment.

Bronzes will be awarded in each along with an overall championship. There will be two championship finale. There will be two single elimination tournaments from 6-9 p.m. each day. June 21, July 19-Aug. 25 and Sept. 20– following American Golf Course Association rules.

Players may enter both the 301 and tournament will be held. There are 18 trouser shots per player and includes cart and lunch.
June 2013

2013 Member Scholarship entry due to Services Marketing July 1

Services Phone Number

Area code 931
DSN 340

Memberships:

Barber Shop:
Non-appropriated Funds Human Resources:

Café 100:

Closed May 27

Boot Camp 6 a.m.

Cycling Class 11:

Café 100 BBQ

11 a.m. – 2 p.m.

Human Resources – 454-5481

Marketing & Sponsorship – 454-3128

Recycling – 454-6008

Fitness Center (FC) – 454-6440

Fitness Centers – 454-6440

Malibu’s Coffee Bar and Grill

Eastern Recreation

Recreation

Fitness Center

454-3350

AEDC government civilian and AEDC contractor employees have access to the following services:

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Monthly cigarettes are not included as consumable items, including toiletries and over-the-counter medications. AEDC government civilian and AEDC contractor employees have access to the following services:

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June Movie Schedule

June 6 – “The Great and Powerful,” rated PG-13 (1 hr. 54 min.). starring Michelle Williams, Mila Kunis and Rachel Weisz. A small-time magician is swept away to a enchanted land and is forced into a power struggle between three witches.

June 13 – “Jack the Giant Slayer,” PG-13 (1 hr. 51 min.), starring Nicholas Hoult, Ewan McGregor, and Stanley Tucci. While fighting a war between humans and a race of giants is reignited when Jack, a young farmer fighting for a kingdom and the love of a princess, opens a gateway between the two worlds.

June 29 – “Smash,” PG-13 (1 hr. 52 min.), starring Debra Messing, Julianne Hough, and Darren Criss. A sabotaged fundraiser goes from bad to worse for two rival theater-truth companies.

June 27 – Movie selection not available at time of publication. Call 454-3350 or 454-3218 for schedule.

June 6, 13 – “The Great and Powerful,” rated PG-13 (1 hr. 54 min.).

June 6 – Movie night at Arnold Air Force Base.

BRIEFS page H2

June 2013 Scholarship entries due by July 1

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running water, but a bath-front porch swing, grill and Crockett Cove offers five Cove and Dogwood Ridge. is available at Crockett weekend. Other camping conjunction with a holiday ber and open Mondays if in convenience store is open and boat docking is $5. A is available at $7 daily. Reservations up to 20 days military retirees and up to 30 days for DOD employ- Sites 27-36 are designated and $400 during the winter. Camp? Monthly rates are know that you can stay for summer and $15 during the camping are $20 during the service. Daily rates for RV with 30 and 50 amp 115V All RV sites are equipped of which are pull-through. sites and 36 RV sites, 15 of which are pull-through. All RV sites are equipped with 30 and 50 amp utility service. Daily rates for RV and long and 12 feet wide and rents for $45 per month or $450 per year. Both storage and a tank of air. It is $20 includes 500 paintballs. All paintballs used must be purchased (ODR) staff member. Cost of an Outdoor Rec (ODR) staff member. Cost

BRIEFS from page H3

Outdoor Rec (ODR) 454-6084

FamCamp is a wooded area available at FamCamp. The

Wingo Inn 454-3051

Check us out on Face- book! Arnold AFB Ser- vices Wingo Inn

Reservations for Win- go Inn can be made 120 days in advance. Room rates start at $53 per night. Please call 454-0151 for reservations.

Gossick Leadership Center (GLC) 454-4003

Check us out on Face- book! Arnold AFB Ser- vices Gossick Leadership Center

The Gossick Lead- ership Center (GLC) may be used for events such as meetings, conferences, luncheons, dinners, etc. and is booked through the Services Conference Center Manager (CCM) up to one year in advance. Requests must be made in writing by email to arnold.glc@ar- nold.af.mil. All event coor- dinators are required to sign an agreement. Official unit functions are authorized at no charge and are defined as bona fide official meetings or training held as part of the normal duty day. Unof- ficial and private functions may be held for authorized users at a fee. Community members may host events with the approval of the Services Director for a fee. Outside food and beverages are not allowed. First con- sideration must be given to Arnold Lakeside Center. In the event they cannot accommodate, an outside source may be utilized with CCM approval. For more information contact the CCM at 454-4003.

Reduce, Reuse & Recycle

Outdoor Rec论述

帮助我们保持您的信息安全

if you need help... visit these agencies / their resources

Health & wellness planning

Mental health & substance abuse

Unemployed

Social prevention

Medical

Personal or family issues

Employment Assistance Program

Counselor

Veterans Assistance Program

Services Conference

Arnold Lakeside Center

Arnold AFB Services

Aronld.glc@arnold.af.mil

Arnold Services Conference Center Manager (CCM)

Arnold AFB Services

Arnold AFB Services

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