Testing at AEDC helps extend life of T-38 Talon

By Deidre Ortiz
ATA Public Affairs

The T-38 Talon has undergone a structural modification program, which is expected to extend the life of the aircraft to 2029.

In the late 2000s, collaborative support was provided by technical experts at the 412th Test Wing at Edwards Air Force Base and AEDC to quantify performance improvements to the T-38 and address some problems that cropped up in the field, according to Dr. Donald Malloy, AEDC lead aerodynamics analysis engineer. At the time of the testing, Malloy was the Aerospace Testing Alliance (ATA) technical lead on the test program that included the flight testing at Edwards AFB.

“The 412th Test Wing and AEDC team used historical reports from AEDC and Edwards along with state-of-the-art modeling and simulation and test and evaluation capabilities to support test and evaluation efforts at Edwards Flight Test Center,” Malloy said. “Results from flight testing were also used by AEDC analysts to support ground testing of the modernized T-38 turbojet engine at General Electric’s engine test facility. In order to support a very aggressive flight test schedule, AEDC also prototyped some of the hardware that was installed on the flight test aircraft.”

Dr. Malloy described the overall results of the 412th Test Wing and AEDC team's effort. He said, “This results in increased flight test risk for acquisition programs, and forces developers to build in additional design margins that can reduce system performance.”

The first completed T-38 Talon from the PACER Classic III program is unveiled July 31 at Joint Base San Antonio-Randolph, Texas. AEDC has long supported testing on the T-38 Talon, and in the last decade, collaborative support was provided by technical experts at the 412th Test Wing at Edwards AFB and AEDC to assess performance improvements of the aircraft. (U.S. Air Force photo by Airman 1st Class Stormy Archer)

The T-38 Northrop TALON supersonic jet trainer was tested in 1958. Northrop first flew the T-38 in 1959; it is still operational with the Air Education and Training Command and NASA.

Significant achievement for future hypersonic weapons development

By Deidre Ortiz
ATA Public Affairs

AEDC engineers have reached an important stepping stone in the future of hypersonic weapons development with the construction and successful checkout of the Hypersonic Aeroscavitation Clean Air Testbed (HAPCAT) Regenerative Storage Heater (RSI).

Ed Tucker, executing agent and AEDC Branch Chief for the High Speed Systems Test (HSST) program, stated the RSI is a key element in achieving the goal of the HAPCAT project. "Our goal is to develop and demonstrate the first clean air, true exhaust hypersonic test facility capable of varying simulated flight conditions from Mach 4.5 to 7.5 for aeropulsion, aerothermal and aeroptics testing,” he said.

Testing of the HAPCAT is being conducted at the Alliant Techsystems (ATK) General Applied Science Laboratories facility in Ronkonkoma, New York. Eventually the technologies developed and validated in HAPCAT will be incorporated into the Aerodynamic and Propulsion Test Unit at AEDC.

Tucker explained that current national hypersonic aeroscavitation ground-test facilities use in-stream combustion or vitrination to achieve high temperatures for inlet air, which is delivered to the engine through fixed geometry single Mach number nozzles.

"Vitrinated air is not representative of the air that a scramjet engine will experience while in flight and adversely affects the ability to accurately quantify the key performance and operability metrics of air-breathing scramjet propulsion systems," he said. "This results in increased flight test risk for acquisition programs, and developers must build in additional design margins that can reduce system performance.”

The clean-air RSI test run for approximately 38 hours and surpassed the test objectives of achieving a maximum bed temperature of 4500 degrees Rankine (degR) and demonstrating the operational capability of the RSI to conduct aeropulsion and aerothermal tests in the future. The bed was twice heated to temperatures exceeding 4500 degR.

After each heating cycle the system was put into “hot standby” mode to simulate the transition time between heating and cooldown during future operations. Following the hot standby periods, two simulated blowdowns were conducted where cold air was blown up- ward through the cored brick bed and out the coolers.

The HAPCAT technologies are being developed through the Test Resource Management Center, Test and Evaluation Science and Technology (JEST), technology program, executed by AEDC. The HAPCAT RSI utilizes advanced, yttria-stabilized zirconia (YSZ) cored brick. Desired flight conditions will be produced by using an air delivery system (ADS) to mix high enthalpy air from the RSI with lower enthalpy air from an alumina bubble bed heater, and with ambient air flows. The final phase of the project will include the development and demonstration of a variable Mach number nozzle which

Kraft, Stebbins receive ITEA Award

See page 3 for complete story. (Image is Copyright of ITEA Journal of Test & Evaluation, March 2015 and is the property of International Test & Evaluation Association (ITEA))
Arnold Police provide active shooter response options

By Arnold Police

Violent incidents — including but not limited to acts of terrorism, active shooter attacks, or other incidents of workplace violence — can occur on the base grounds or in proximity with little or no warning. An “active shooter” is considered to be a suspect or unknown whose activity is immediately causing serious injury or death and has not been contained. If an active shooter takes place on your area you will be notified by the Arnold Voice or desktop pop-up to evacuate. There are key points to keep in mind when facing an active shooter threat in your vicinity:

Escape/Run
If you find yourself in immediate danger during an active shooting incident, wait in your work, try to evade [evasion], or run and escape from the scene. During escape, plan your route, leave your stuff behind, exit with your hands visible.

Security Forces personnel will establish a perimeter to keep all personnel away and co-ops the FSS requirements when ASO, and subsequent efforts, begin to carry out. Our Transition Team has been planning for this phase for well over a year; therefore, they will be providing information to ASO to begin their more information in the near term. We have a facility that extends to AEDC to maintain the greatest force the world has ever known. AEDC is our new partner in this trust. Please welcome them to the AEDC family.

I am honored to serve beside you. Respectfully,
Col. Todaro

CHANGE from page 1
I have directed our contracting officer to inform ASO to begin their more information in the near term. We have a facility that extends to AEDC to maintain the greatest force the world has ever known. AEDC is our new partner in this trust. Please welcome them to the AEDC family.

I am honored to serve beside you. Respectfully,
Col. Todaro

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 smoke genie, smoking is not permitted.

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

3. People may remove the plastic "smoke genie," if they are in company of others.

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

For general information about High Mach, call (931) 454-8585 or visit www.arnold.af.mil

AEDC POW/MIA Remembrance Day
Run/Walk
September 16 opening ceremonies 11 a.m.
Administrative Building AEDC Building Track
Burger Run 10 a.m. - 1 p.m.

Family members of Pikes will be up-to-date on POW/MIA. Maj. Gen. Brian James, MGPO (active supporting), and Col. Charles W. Burkart Jr., 13th Bomb Squadron (son attending)

AEDC Commander

Kathy Gattis, ATA Public Affairs Manager
Steve Pearson, Executive Editor
Rajpal March, Editor

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“ATA will be a trusted partner in delivering best value warfighter solutions to the AEDC family.”

Steve Pearson

Full time employment, part-time employment, unemployment or independent contractors may not work all hours. Take time to refresh your knowledge and skill and report unusual activity before an incident occurs.
AEDC engineers attend NATO symposium in Poland

By Deirdre Ortiz

Two engineers from AEDC recently traveled to Rzeszów, Poland, for the 2015 North Atlantic Treaty Organization (NATO) Spring Panel Business Week (PBW). Bryan Crowson and Adam Moon, who are part of the Test Operation Division branch, were among the 430 engineers, scientists and industry and government representatives from 21 NATO Nations and three Partner Nations to attend the conference hosted by the Applied Vehicle Technology (AVT) Panel at Rzeszów University.

Fifty-three AVT Technical Teams consisting of task groups, program committees, exploratory teams and a specialist team met during the week. These meetings included the AVT-229 Symposium on “Test Cell and Controls Instrumentation and EHM Technologies for Military Air, Land and Sea Turbine Engines,” AVT-230 Specialists’ Meeting on “Advanced Aircraft Propulsion Systems,” and the AVT-241 Specialists’ Meeting on “Technological and Operational Problems Connected with Unmanned Ground Vehicle (UGV) Application for Future Military Operations.” Technical discussions covered a range of topics from mechanical systems, structures and materials to performance, stability and control analysis as well as propulsion and power systems of new and aging systems.

At the conference, both AEDC engineers presented technical papers they wrote. Crowson spoke about the F112 fan blisk damping test that was performed at the William International test facility and sponsored by the Air Force Research Laboratory. Moon’s presentation featured aeromechanical excitation methods for advanced test cell applications.

“My paper focused on the spin rigs that Bryan Hayes designed and the facility health monitoring that’s implemented at the National Full-Scale Aerodynamics Complex,” Moon said.

Crowson added this was the first time that either of them had presented at a conference-type setting. “It was a great learning opportunity to see the advancements of Non-Intrusive Stress Measurement System (NIMSS), which is a method for determining dynamic blade stresses in rotating turbomachinery,” he said.

“It was also interesting to see the advancements in test cell control monitoring work AEDC could do in the future.”

Kraft, Stebbins receive 2015 ITEA Publications Award

By Raquel March

Dr. Edward Kraft, AEDC chief technologist, and Lt. David Stebbins, at Joint Base Elmendorf-Richardson, Alaska, received the International Test and Evaluation Association (ITEA) 2015 Publication Award Aug. 20 at the ITEA 32nd Annual Symposium, Arlington, Va.

Stebbins was a former project manager for the F-135 engine Accelerated Mission Testing at AEDC where he made significant contributions to the winning publication. The 2015 ITEA Test and Evaluation (T&E) Professional Awards Program presents this award and five others annually to individuals and groups that have made significant contributions to advancing the test and evaluation profession. The award winners are nominated by ITEA members and T&E leaders.

Kraft and Stebbins wrote an article titled “Wind Tunnel Testing in the Department of Defense,” which was published in the March 2015 issue of the ITEA Journal of Test and Evaluation. It was an introduction to the capabilities of wind tunnel facilities operated by AEDC. Additional information provided in the article included the current status of the facilities and projected changes in the future use of the wind tunnels.

Information provided on the ITEA web site regarding the article cited in the Publications Award stated that “descriptions of wind tunnels, their capabilities and locations, are seldom found in one article, and this comprehensive inventory fills a critical void.”

While in Rzeszów, Poland, for the 2015 North Atlantic Treaty Organization (NATO) Spring Panel Business Week (PBW) meetings, AEDC engineers Bryan Crowson and Adam Moon had the opportunity to see several historical sights. Pictured here is the Monument of the Revolutionary Act located in the center of Rzeszów. (Photo provided)
Ward receives recognition for leadership

Rhonda Ward, AEDC Federal Women’s Program manager and budget analyst, recently received The Award for Exemplary Civilian Service from AEDC Commander Col. Rodney Todaro. The citation for the award was “In recognition of her distinguished performance as the Federal Women’s Program Manager, Arnold Engineering Development Complex, Air Force Test Center, from July 2004 to July 2013. Ward developed and implemented special programs initiatives at the Complex related to the concerns and needs of women, promoted women’s advancements, recognized women’s achievements and enhanced professional development. Ward has 28 years of service with AEDC.” (Photo by Jacqueline Cowan)
45 years on alert: Minot conducts Minuteman III test launch

By Capt. Christopher Moutard
Air Force Global Strike Command Public Affairs


Working with members of the 576th Flight Test Squadron and 50th Space Wing at Vandenberg AFB, the Minot AFB team launched the ICBM at 3:03 a.m. PDT. The test re-entry vehicle impacted in a pre-established test area roughly 2,400 miles away in the Pacific Ocean near the Kwajalein Atoll.

“Launching an ICBM under operational conditions is a whole team effort, and that’s what we bring out here to replicate the scenarios in the field as close as possible,” said Lt. Col. Eric Thompson, the 91st MW Task Force commander. “The operations and maintenance crews who come out here with us know the job they’re doing back home is important, and actually coming out to launch an unarmed missile really solidifies the job we do every day with nuclear deterrence.”

Prior to each operational test launch, operational and maintenance crews from the supporting missile wing assemble the missile, pull alert duties and finally launch the Minuteman III.

“It’s very exciting getting the opportunity to do (the launch), but it’s definitely going to be a team effort with our Minot crews, the 37th and 576th (FLTS) all working together,” said Maj. Benjamin Thompson, the 741st Missile Squadron assistant flight commander. “The launch itself is going to ensure that the missile is going to do what it was designed to do, and it’s great to see that, because we don’t get this every day.”

The test launches verify the accuracy and reliability of the ICBM weapon system and provide valuable data to ensure the platform remains a safe, secure and effective nuclear deterrent. However, this launch in particular offered a sense of longevity and persistence the Minuteman III community has experienced over the past 45 years.

The former 741st Strategic Missile Squadron at Minot AFB originally brought the first Minuteman III missiles on alert in 1970 just one day after another ICBM operational anniversary, the first test launch of an operationally configured Minuteman II missile in 1965. That Minuteman II launch also took place at Vandenberg AFB, stressing the role the base holds in the strategic deterrence testing and evaluation mission.

“Vandenberg has hosted the operational test launch program for over five decades, and it’s here that we really have a chance to demonstrate the effectiveness and operational capabilities of our weapon systems,” said Col. Craig Ramsey, the 37th FLTS commander. “Putting all the pieces together, to make a launch happen, seems simple after the fact, but we have teams from Minot working with personnel from our test and evaluation squadron and the 50th Space Wing. It truly is a complex mission to get an asset from the operational unit, add test and safety packages to it, and ensure all facets of the mission are test-ready – but it’s handled by professionals who are the best in the world at their job.”

Air Force Global Strike Command’s new commander, Gen. Robin Rand, was also on hand to see the Airmen in action for the test.

“I’m truly impressed by the knowledge, the skills and the teamwork that our Airmen demonstrated during this test launch,” Rand said. “When I think of the value of these types of tests we’ve played over the years, I think of the message we send to our allies who seek protection from aggression and to adversaries who threaten peace. I also think about the American people we’ve sworn an oath to protect; people like my grandchildren who count on us to get this right. We can’t let them down.”

Currently, Air Force Global Strike Command oversees the nation’s more than 400 ICBMs across Minot AFB, F.E. Warren AFB, Wyoming; and Malmstrom AFB, Montana, all of which randomly select ICBMs from their missile fields to perform operational test launches like this one.

An unarmed LGM-30G Minuteman III intercontinental ballistic missile launches Aug. 19 at Vandenberg Air Force Base, Calif. The missile was randomly selected from Minot AFB, N.D. as a part of the system’s operational test and evaluation program, which provides valuable data to evaluators and validates the reliability of the ICBM fleet. (U.S. Air Force photo/Joe Davila)
UTSI professor presents ‘Flow Control’ at AEDC

Dr. Ahmad D. Vakili (far left), Professor of Mechanical and Aerospace Engineering at the University of Tennessee Space Institute, addresses participants at AEDC’s Technical Excellence Seminar Aug 20 on his recent research studies of ‘Flow Control’. Vakili said flow control has recently become a focus and a component of research in various aerodynamics and fluid mechanics of advanced systems. (Photo by Jacqueline Cowan)

Agility, partnerships highlighted at industry event

By Kendahl Johnson
Portland Air Force Base
Public Affairs

KIRTLAND AIR FORCE BASE, N.M. (AFNS) – Businesses received insight into more than 400 opportunities worth $12.2 billion at the annual Briefing for Industry held Aug. 17-19 in Albuquerque, N.M. (Air Force Research Laboratory graphic)

Businesses received insight into more than 400 opportunities worth $12.2 billion at the annual Briefing for Industry held Aug. 17-19 in Albuquerque, N.M. (Air Force Research Laboratory)

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Kirtland Air Force Base, Ohio, and operating in New Mexico, is facing competition from potential adversaries. "We have to shake things up," he said. "We can no longer be business as usual. Just because we've had technological superiority for the past 20 years doesn't mean that we'll continue to have it." Masiello said the U.S. is facing competition in research and development from potential adversaries, who have been making progress toward leveling the playing field. Space, cyber and the electromagnetic spectrum are increasingly contested.

“Our enemies have the ability to challenge us in ways that were never possible before,” he said. “Our greatest challenge is to be able to respond faster than our adversaries. We have to adapt and be flexible.”

The general emphasized partnerships with large and small businesses and universities, and leveraging science and systems engineering as a path to deliver advanced Air Force capabilities while lowering life cycle costs.

There were more than 430 registered attendees at the event, representing 26 states. Unruh said plans are to continue to grow and expand the annual conference.

Presented by the Antelope Valley Chapter in Lancaster, California
14-17 September 2015

Valley and around the world to discuss the latest innovations in testing aerospace systems.

Innovators have been breaking barriers in the Antelope Valley for over 7 decades: supersonic flight, hypersonic flight, spaceflight, advanced flight controls, unmanned aerial vehicles (UAVs), and commercial spaceflight. Just flight test professionals from the Antelope Valley and around the world to discuss the latest innovations in testing aerospace systems.

September 7, 2015

For more info, visit www.sfte2015symposium.com or contact av.sfte@gmail.com

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46th Society of Flight Test Engineers International Symposium

September 7, 2015

For more info, visit www.sfte2015symposium.com or contact av.sfte@gmail.com

September 7, 2015

For more info, visit www.sfte2015symposium.com or contact av.sfte@gmail.com
AF emergency managers emphasize planning during National Preparedness Month

By Air Force Office of Information Dominance and Chief Information Officer

WASHINGTON (AFNS) – Lt. Gen. Bill Bender, the Air Force chief information officer, and Maj. Gen. Martin Whelan, the Air Force director of future operations, have partnered to increase awareness of the importance of operations security and cybersecurity to protect the Air Force mission, personnel and their families.

“We are thrilled with this new partnership,” Whelan said. “Cybersecurity is such an integral part to ensuring operations security in our Air Force. We want our Air Force personnel to understand that cybersecurity is everyone’s responsibility and that their daily actions can make or break a mission and/or put them, their families and their colleagues at risk.”

Bender agreed. “We are hoping that by pairing our OPSEC and new cybersecurity logos together it will remind personnel of the relationship that OPSEC and cybersecurity share in keeping our personnel and our missions safe.”

OPSEC has always been an important factor in the military. The official OPSEC program was launched during Vietnam in 1966 with Operation Purple Dragon. “Purple Dragon” was the unclassified nickname, given by the Joint Chiefs of Staff, for a study done on the loss of B-52 Stratofortresses in Southeast Asia. National leadership became concerned that there was a security breach since U.S. B-52 bombers were being shot down at a very high rate. It was apparent that the North Vietnamese had been gathering prior knowledge of bomb- ing mission times and locations. Thus, Operation Purple Dragon was born and it was soon discovered that existing procedures were not being directly followed by Hanoi.

OPSEC has since become an established practice used by military, federal, state and local agencies, as well as private companies. Each year, additional businesses realize the importance of OPSEC in their day-to-day operations to help protect proprietary and sensitive information from disclosure, espionage and exploitation. Even at home, OPSEC can help protect person’s identity, family and home from those who strive to exploit their information for personal gain.

Air Force adopts new dragon

By Air Force Office of Information Dominance and Chief Information Officer

The Air Force is encouraging Airmen and their families to focus on emergency planning in September as part of National Preparedness Month. This year’s theme is “Don’t wait. Communicate. Make your emergency plan today.”

The emphasis should be to increase the comprehensiveness of your campaig
gs, engaging all members of your community and highlighting the impor
tance of preparedness, not just during National Preparedness Month, but year round,” said Han
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gs, engaging all members of your community and highlighting the impor
tance of preparedness, not just during National Preparedness Month, but year round,” said Han
cay Connors, the AFSEC emergency management division chief.

Air Force bases are encouraged to participate during National Prepared
ness Month and National PrepareAthon Day Sept. 30.

“Virtually every mission across the range of military operations de
pends on cybersecurity and every Airman has an important mission to play with respect to OPSEC and cy
bersecurity,” Bender said. “We are much more effec
tive when everyone plays their part.”

The Air Force is encouraging Airmen and their families to focus on emergency planning in September as part of National Preparedness Month. This year’s theme is “Don’t wait. Communicate. Make your emergency plan today.”
Arnold Base Exchange celebrates 120 years

By Raquel March
ATA Public Affairs


There are 2,440 Exchange facilities across the world— in 33 countries, 50 states and five U.S. territories. Arnold’s Exchange is known as the Arnold Retail Store.

Theresa De Los Santos, Arnold Air Force Base Exchange shift supervisor, described the activities that took place during the celebration where AEDC Commander Col. Rodney Todaro was in attendance.

“‘For our 120th [celebration] at the Exchange we gave away a Go-Pro camera, a crawfish boiler and a Budweiser picture,’” she said. “We celebrated with a cake cutting ceremony. Col. Todaro cut the cake.”

The mission of the Exchange is to provide a personal relationship with Soldiers and Airman better through the goods and services they offer with a motto of, “We go where you go.”

Arnold Exchange offers the same items found in off-base retail stores. De Los Santos said if Arnold doesn’t have an item, they can have it delivered from Fort Campbell, Ky. They also price match products.

Another part of the mission is a focus on family serving family. During celebration July 23 at the Exchange Detail headquarters, Exchange Director Tom Shull commented on the mission in personal.

“Are we here celebrating 120 years because of your steadfast dedication? Shull said. “Inspired by a love of country, you go where they go. 120 years after our founding, we remain family serving family.”

De Los Santos also shared the same sentiment. “At AEDC we have the Army and Air Force Exchange Service July 25 at the Arnold Air Force Base Exchange. (Photo provided) We are here celebrating the cake at the celebration for the 120th Anniversary of the Army and Air Force Exchange Service July 25. The event was held at the Arnold Air Force Base Exchange.

“We serve the best customers and get to know their needs. They come to the Arnold Retail Store.”

The Arnold Exchange employs five people consisting of military family members in the world and that is how they are treated when they come to the Arnold Retail Store.”

The Arnold Exchange serves active duty, retirees, veteran personnel.

Milestones

James Thompson, ATA

25 YEARS
Darrell Bosher, ATA
Jennifer Johnson, ATA
Steven Layley, ATA

20 YEARS
Dewayne Davis, ATA

15 YEARS
Kathryn Stephens, ATA

10 YEARS
Troy Caldwell, ATA
Jason Colbert, ATA
Jamie Cordey, ATA
Joseph Cowan, ATA

5 YEARS
Reggie Floyd, AF
Robert Greene, AF
Brian Hall, ATA
Cálnia Schuman, AF
Nona Schuman, AF

Retired Master Sgt. George Allen displays the crawfish boiler he won at the 120th Anniversary celebration of the Army and Air Force Exchange Service July 25 at the Arnold Air Force Base Exchange. (Photo provided) Approximately 26 percent of the Exchange’s nearly 35,500 associates are military family members; 10 percent are veterans; and two percent are active duty, Guard or Reserve personnel.

In the past 10 years, the Exchange has distributed more than $2.4 billion for the Morale, Welfare and Recreation Program to fund quality-of-life improvements.

Arnold Air Force Base Exchange celebrates 120 years

James Myers, AF
Chesna Herren, ATA

30 YEARS
Anthony Durante, AF

Gene Klingensmith
35 Years

Milestones

Mike Barlow
35 Years

James Thompson, ATA

25 YEARS
Darrell Bosher, ATA
Jennifer Johnson, ATA
Steven Layley, ATA

20 YEARS
Dewayne Davis, ATA

15 YEARS
Kathryn Stephens, ATA

10 YEARS
Troy Caldwell, ATA
Jason Colbert, ATA
Jamie Cordey, ATA
Joseph Cowan, ATA

5 YEARS
Reggie Floyd, AF
Robert Greene, AF
Brian Hall, ATA
Cálnia Schuman, AF
Nona Schuman, AF

Robert Tischart, AF

RETIIREMENTS
Virginia Cory, ATA
Robert Brewer, AF
Gail Bryant, AT
Michael Phillips, ATA

PROMOTIONS
Robert Brook, AF
James Evans Jr., AT

INBOUND MILITARY
Cameron Butcher, AF
Steven Marrocco, AF

NEW HIRES
Cameron Butcher, AF

Andrew Haukstra, AF
Joseph Ibs, AF
Kenneth Kerr, AF
Steven Marrocco, AF
Benjamin Mills, AF
Scott Partin, AF
Kyle Reece, AF

GRADUATE/ DEGREES
Stacey Wimberly, Master’s in Business Administration
Jack Glasser, Security

Asset Protection
Professional Certification

/
ATA personnel receive awards for outstanding performance

Ronald Baucom Craftsperson of the Quarter Integrated Test and Evaluation Department, Test Operations and Maintenance

Rocco Simeri Jr. Craftsperson of the Quarter Test Assets and Support Department, Plant Operations and Maintenance

David Schilkyov Craftsperson of the Quarter Mission Support Department, Fuels/Utility Operations and Maintenance

Robert Knapke Technical Excellence in Engineering of the Quarter Integrated Test and Evaluation Department, Computations and Software Development

Scott Wieland Technical Excellence in Engineering of the Quarter Integrated Test and Evaluation Department, Engineering and Facilities Design

Joel Gregory Administrative and Professional Support Services of the Quarter Test-Assets and Support Department, Administrative Support

Barry Henderson Operations and System Engineer of the Quarter Mission Support Department, Maintenance Engineering

Jonathan Seely Program Manager of the Quarter Test-Assets and Support Department, Internal Customer Program Manager

Terry Hayes Technical Excellence in Engineering of the Quarter Integrated Test and Evaluation Department, Science and Technology

Peter Allingham Administrative and Professional Support Services of the Quarter Mission Support Department, Tech. Spec. and Admin Professional

Craig Russell Operations and System Engineer of the Quarter Test Assets and Support Department, Facility Operations Engineering

Geoffrey Griffin Customer Service of the Quarter Information Technology and Systems Department, Internal Customer Service

William Banas Technical Excellence in Engineering of the Quarter Integrated Test and Evaluation Department, Engineering Analysis

John Leonard Administrative and Professional Support Services of the Quarter Mission Support Department, Performance Management Department, Support Services

Mike Hamby Operations and System Engineer of the Quarter Information Technology and Systems Department, Software Engineering

Michael Magistro Customer Service of the Quarter Integrated Test and Evaluation Department, External Customer Service

Photos were unavailable for:

Timothy Orange; Craftsperson of the Quarter Test Assets and Support Department; Fabrication, Installation, Maintenance and Support

David Whitton Jr.; Craftsperson of the Quarter Mission Support Department; Emergency Services

Ellis Heim; Program Manager of the Quarter Mission Support Department; Emergency Services

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