

## Engine for the new Airbus A330neo tested at AEDC



Dan Haddon, lead outside machinist at AEDC, helps prep the Rolls-Royce Trent 7000 engine for testing in the C-2 engine test cell. (U.S. Air Force Photo/Jacqueline Cowan)

By Deidre Ortiz  
ATA Public Affairs

The Trent 7000, the Rolls-Royce engine to be used in the new Airbus A330neo, was recently tested at AEDC.

Jit Sahota, engine management engineer for Rolls-Royce Trent 1000 and 7000 projects, said testing at AEDC was conducted to affirm the combined capabilities that Roll-Royce was striving for in this engine and it was achieved.

“The Trent 7000 brings together experience from the Trent 700, the engine of choice for the current A330, as well as architecture from the Trent 1000-TEN, the latest version of the Trent 1000 engine, and the latest technology from the Trent XWB, the world’s

most efficient large civil engine,” he said.

Sahota added the 68,000 to 72,000-pound thrust Trent 7000 will deliver a steep change in performance and economics compared to the current version of the Trent 700.

“It will improve specific fuel consumption by 10 percent, have twice the bypass ratio and will cut noise emissions by half,” he said.

The L71/1, the first Trent 7000 engine to be built, was brought to AEDC for testing in December 2015.

“Both AEDC and Rolls-Royce teams worked extremely hard and long hours to get the engine pinned and ready for test,” he said.

See **ENGINE**, page 4

## Arnold participating in Energy Savings Performance Contract

By Deidre Ortiz  
ATA Public Affairs

Arnold Air Force Base has been selected to take part in an energy saving performance contract due to having a very large energy load.

Through this contract, funding will become available to finance numerous facility improvement projects that will save money and energy for AEDC. The execution of the projects will be financed through the achieved energy cost savings.

Nick Hibdon, energy manager for AEDC, explained that the Energy Savings Performance Contract (ESPC) Investment Grade Audit is currently underway, with the energy services company NORESKO heading the audit.

“The IGA kicked off March 8 with a meeting of NORESKO employees, Air Force Civil Engineering Center employees and Arnold employees,” he said. “This marks the start of a nine-month data gathering effort.”

NORESKO has been selected by the Air Force to per-



A group of representatives with NORESKO, the energy services company selected to carry out the Energy Saving Performance Contract at Arnold Air Force Base, recently took a tour of the test facilities at AEDC. NORESKO began a nine-month Investment Grade Audit to determine how to proceed with the ESPC. Pictured right is Raquel March, of ATA Public Affairs, speaking to NORESKO staff at the Aeropropulsion System Test Facility. (U.S. Air Force photo/Holly Fowler)

form the ESPC and will be responsible for project development, design, implementation, construction and arrangement of long-term financing. Prior to execution, all project details will be reviewed and approved by Arnold.

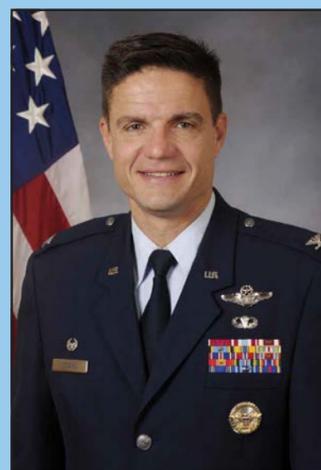
As part of the audit, representatives from NORESKO will be performing an assessment in order to provide sufficient information, such as determining energy consumption and estimating potential utility cost savings, for the Air Force

to make a decision on proceeding with the ESPC projects.

A recent report by the AFCEC Public Affairs noted the special energy needs of AEDC due to testing requirements.

See **ENERGY**, page 4

## Revolutionary Change: Col. Todaro announces TMAS award



Col. Rodney Todaro

AEDC Commander, Col. Rodney Todaro recently provided a series of updates on AEDC’s Source Selection efforts to the entire workforce via email. Below is his message sent March 17. Additionally, messages and other information can be found online at [www.arnold.af.mil/transition](http://www.arnold.af.mil/transition).

Team AEDC,

The Air Force Test Center Technical and Management Advisory Services (TMAS) Range Task Order under the General Service Administration’s One Acquisition Solution for Integrated Services (OASIS) small business multi-agency contract vehicle was awarded to QuantiTech, Inc., Huntsville, AL, as a cost-plus-fixed-fee contract with a potential value of up to \$224 million. The period of performance is 55 months – three month base period, four one-year option periods – in addition to a 120-day phase-in period.

The QuantiTech team will provide advisory and assistance services at Arnold AFB, Eglin AFB, Holloman AFB, Wright-Patterson AFB, and AFTC’s operational test and combat training partners at Air Combat Command and Pacific Air Force sites.

See **AWARD**, page 2

## Tunnel 9 director breaks ground with new White Oak, Md. tenant



Dan Marren (front row, eighth from left), director of the AEDC Hypervelocity Wind Tunnel Test facility also called “Tunnel 9” located in White Oak, Md., participates in the ground breaking ceremony March 7 for the Washington Adventist Hospital (WAH), a \$330 million project. The event took place adjacent to the Federal Research Center, the location of AEDC White Oak test facility and the U.S. Food and Drug Administration headquarters. WAH will become a part of the White Oak Science Gateway where they will provide healthcare to the White Oak community. (Courtesy Photo)

### In This Issue....

**Test facility team receives Exemplary Civilian Service Award**

...Page 3

**Area elementary student chosen as a national winner of Reach for the Stars Rocket Competition**

...Page 3



**HIGH MACH**

**Arnold Engineering Development Complex**  
An Air Force Test Center  
Test Complex

**Col. Rodney Todaro**  
Commander

**Jason Austin**  
Chief,  
Public Affairs



**Steve Pearson**  
General Manager,  
Aerospace Testing Alliance

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

*High Mach* is published by Lakeway Publisher, Inc. a private firm in no way connected with the U.S. Air Force, Arnold Engineering Development Complex (AEDC) or Aerospace Testing Alliance (ATA), under exclusive written contract with ATA, complex support contractor, at Air Force Test Center's AEDC, Arnold AFB, Tenn., 37389.

Everything advertised in this publication will be made available for purchase, use or patronage without regard to race, color, religion, sex, national origin, age, marital status, physical handicap, political affiliation or any other non-merit factor of the purchaser, user or patron.

The *High Mach* office is located at 100 Kindel Drive, Suite A236, Arnold AFB, Tenn. 37389-1236. Editorial content is edited and prepared by AEDC support contractor ATA. Deadline for copy is Wednesday at close of business the week before publication.

This commercial enterprise newspaper is an allowable ATA contractor publication for personnel at AEDC.

The content of *High Mach* does not necessarily reflect the views of the Air Force, AEDC or ATA. The appearance of advertising in this publication does not constitute endorsement by the Department of Defense, the Department of the Air Force, AEDC, ATA or Lakeway Publisher, Inc. of the products or services advertised.

For advertising information, call (931) 455-4545.

For general information about *High Mach*, call (931) 454-5655 or visit [www.arnold.af.mil](http://www.arnold.af.mil).

**Core Values**

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

**Vision**

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

**Core Values**

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

# AEDC Safety warns team members about lead poisoning

By AEDC Safety

Lead poisoning is one of the oldest known occupational diseases in the world, yet it continues to affect workers today.

Lead is a highly toxic element that can cause permanent and deadly damage to the human body.

For many years, lead was an important ingredient in paint. Although it is rarely used in paint now, except for special purposes, there are plenty of items in the workplace still covered with lead-based paint, including window and door frames, pipes, girders, and metal objects of all kinds. Scraping, sanding, sandblasting, or even flaking of lead-based paint creates a dust that can be easily breathed in.

Of course, paint isn't the only source of lead. Various types of construction materials, including bricks and mortar, roofing material, insulation, pipes, and solder, can all contain lead.

Lead is a cumulative poison, meaning once it enters

the body; it accumulates in areas such as the blood, kidneys, liver and brain.

**Signs of Poisoning**

Inhaling lead dust or fumes is the most common way lead poisoning occurs. Inhaling or swallowing lead (often due to contaminated hands touching food or the face) can introduce lead into the body.

The symptoms of lead poisoning can be different with different individuals. A low level of lead in the blood can cause flu-like symptoms, weakness and numbness in the arms and legs, poor circulation, forgetfulness, or anemia. Other signs of poisoning include tiredness, insomnia, stomach problems, constipation, and headaches. It can also cause reproductive problems.

Higher levels of lead in the blood can lead to kidney damage, problems with the brain such as seizures and coma, and even death.

**Get the Lead Out**

Since lead is so highly

toxic, the ideal situation would be to eliminate it from the workplace and substitute materials that do not contain lead. However, this is not always possible.

Levels of lead can be brought down by ventilation and workplace changes. So if you know you work with lead-containing materials:

- Follow the safety practices given to you by your supervisor.
- Check the safety data sheets and chemical labels on materials you come into contact with at the job site.
- Read warning signs and any printed material that your employer has posted in the work area concerning exposure to lead.
- Rotate jobs or duties if instructed to do so by your employer.
- Cooperate with any medical surveillance measures taken by your employer, such as blood tests and physical exams.

**Good Hygiene Can Help**

If you understand how

dangerous lead can be, then you know that following safety procedures involving lead is very important to your health and the health of your family.

- Use any personal protective equipment, such as gloves, face shields, or respirators, as instructed by your employer.
- Keep the work area as free as possible from lead contamination by regular cleaning with a toxic-dust HEPA filtered vacuum or with safe wet-mopping methods. Don't use compressed air, a shovel brush, or dry sweeping.
- Try not to touch your face, hair, or other parts of your body when you are working with lead-containing materials.
- Wash your hands and face thoroughly before lunch breaks or any break when you will be eating, drinking, smoking, applying makeup, or touching contact lenses, even if you have been wearing gloves.
- Don't keep your lunch box, purse, snacks, cigarettes, or makeup near your work area.

• Take showers at the end of your shift. You must change clothing before leaving work.

• Don't bring your work clothes home! This will bring lead contamination back to your house and your family.

Children of workers who bring home lead dust on their bodies and clothing may be affected from very low levels of exposure. Such exposure can result in behavioral disorders and even mental retardation.

**Warning**

If your job exposes you to lead, immediately report symptoms such as:

- A metallic taste in the mouth.
- Tremors, convulsions, or numbness.
- Vomiting, nausea, or other flu-like symptoms.
- Tiredness, weaknesses, headaches or nervous irritability.
- Chronic sleep problems.
- Poor memory or a general feeling of mental dullness.

## Analyzing failure, realizing success

By Col. Ryan Samuelson  
379<sup>th</sup> Expeditionary Operations Group

**AL UDEID AIR BASE, Qatar (AFNS) –** *The views expressed in this article are those of the author and do not necessarily reflect the official policy or position of the Air Force, Defense Department or the U.S. Government.*

"We have an issue. I'll call him in and figure out why he failed to..." said the supervisor who walked into my office that sunny day.

"Stop," I said, "find out the facts, let me see the outcome of the mistake, and let me see if I own it before you say he failed."

A puzzled look from the supervisor ensued. The details of the individual and the failure are inconsequential. Tying failure immediately to an individual seemed too easy a conclusion for me. What mattered was the process of analyzing failure in hopes of realizing unit success. After all, in the military we are surrounded by amazing patriots every day who strive to make a positive difference.

A rush to judge the professional who experienced failure before engaging in a rational evaluation of all the details is detrimental to building a team who is eager to serve, learn, fix, and better expect.

The Quantitech team met yesterday with the AFTC TMAS Program Management Office representatives located at Eglin to begin the transition period. The Quantitech team plans to meet with AEDC representatives in

ecute our Air Force's diverse missions. In over 22 years of service, I have come to firmly believe nearly 97 percent of all events we deem as failures by a person or a team are attributed to one of three reasons; *and supervisors and leaders own them.* Let's evaluate:

First, did you properly set out expectations and provide appropriate and robust feedback?

It is the foundation for everything. Where those on your team finish is rooted in where you ask them to start. If you have not set out clear priorities, expectations, limitations and goals, take caution criticizing the paths they take. Course corrections ingrained with open and consistent communication are paramount to setting up professionals and their teams for success. If you are in charge, listen intently, ponder more and talk less. Seek feedback, provide it and make your expectations concise.

Second, did you properly train; but more importantly, educate the professionals with whom you serve?

The demands of training for the multitude of missions Airmen are asked to accomplish often drive us to one-on-one computer-based training (CBT) modules and short slideshows. That is training and it is an important step,

but it is not education. The bedrock of our military success is comprised of a professionally educated, not just trained, force. Only through consistent supervisor follow up, experience-driven opportunities, team discussions, leadership engagement, and an open and collaborative review of failures are professionals truly educated. Click, click, click, print certificate doesn't work. Education is a multifaceted process. If you are provided with only a CBT to train you, then supervisors and leaders own any failures as a result.

Third, did you take time to see if the procedures by which your teams operate are broken, inefficient or ineffective?

Did the process fail the professional? In the military, we operate in one of the most dynamic environments on the planet. For those in the deployed environment, challenge what you see and how you operate if it is not leading to successful mission execution. When we apply an organize, train and equip "in-garrison" mentality to the deployed environment we run the risk of experiencing mission-impacting negative consequences. We risk failing. Processes must be challenged and fixed as we are not organized and resourced like the

bases we left. Ensuring your team adheres to disciplined execution of their tasks starts with a sound process supervisors and leaders own. Repeat failures usually mean the process is broken and Airmen are being set up to fail. Unless a process is bounded by the laws of physics or chemistry, fix it if it's leading to repeated failure.

Before rushing to judgment, as a supervisor and a leader, regardless of rank, apply some critical thinking and ask yourself those three basic questions when analyzing failure.

For the 3 percent who do not know the difference between a mistake and a crime, who willingly disregard technical order guidance and instructions, or who refuse to uphold the standards required in the profession of arms, we have ways of holding them accountable and we should to the maximum extent possible. We are all responsible for our actions. For the 97 percent, I believe supervisors and leaders owe them the flexibility to learn from mistakes, make the team stronger from those mistakes, and foster a culture which allows the discussion of those mistakes void of unnecessary repercussions to realize unit success.

If you do not encourage a systemic look at failure when

it occurs, you run the risk of destroying effective chain of command communication, team cohesion, honest feedback and also the prospect of the building of effective learning organizations. Honest mistakes are part of everyone's learning process. High performing professionals and teams are not driven by a fear of the consequences of their actions, but rather by the belief they are accomplishing something of importance with the support of their leadership.

Standards must be set and followed. Failure is rare when taken into context with the billions of actions and decisions our military professionals make daily. However, if an Airman or team fails, first ask yourself, "Do I own it? Have I looked at the big three - expectations, education and process?" Analyze failure, then watch your team realize success. If you start there, you may find the great people who have chosen to join the world's most effective air, space and cyber force will bring forward more issues to solve and ideas for success than you can handle. But that is a risk worth taking.

By the way, the failure I first mentioned above was mine to fix. I owned it. As a supervisor and a leader, will you?

**AWARD from page 1**

The Quantitech team met yesterday with the AFTC TMAS Program Management Office representatives located at Eglin to begin the transition period. The Quantitech team plans to meet with AEDC representatives in

the very near future as part of transition here. Once the transition period is complete, performance will start. At this time, we are projecting transition to end no later than July 14.

The award to Quantitech, Inc. is the

culmination of a multi-year effort which has required the focus of a good portion of our government team. Changing the contracting strategy, along with our CTF conversion at AEDC, has been a transformational change in the way we meet

the needs of the warfighter and our nation.

Thank you for staying focused on our mission during this prolonged period of change and uncertainty. You are extremely valued for your role in ensuring our Air Force and our sister

services stay ahead of our adversaries. Thank you for your dedicated service to our country.

I continue to be humbled to serve beside you.

Very respectfully,  
Col. Todaro

## Smoking Policy

- The following revised AEDC smoking policy is effective immediately. Smoking is permitted solely in designated areas identified by a plastic "smoke genie." This receptacle is for the sole purpose of cigarette butt disposal. If there is no receptacle, smoking is not permitted in that area. It is the responsibility of all smokers to clean up the area surrounding the receptacles for any cigarette butts on the ground. Smoking in government-owned vehicles is strictly prohibited. Personnel are allowed to smoke in their personal vehicles at any time. Smoking areas will be held to the absolute minimum and will be located in low traffic, low visibility areas away from points of building ingress/egress and air intakes. A map of all authorized smoking areas is available on the Team AEDC SharePoint site. Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.
 

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

Smoking, including the use of electronic cigarettes and smokeless tobacco, is prohibited in any area, at times when official business is being conducted with government clients, test customers, outside visitors and dignitaries, and where official business is being conducted including conference rooms, auditorium settings, business meetings, or in any other area where Air Force regulations specifically prohibit use. Containers of tobacco waste product, including sealed containers, must not be left unattended or disposed of in trash receptacles. Users of smokeless tobacco must flush tobacco waste down the toilet. Due to the nature, appearance, and safety concerns of electronic cigarettes (also known as "e-cigs"), the use of said products will abide by the same rules for tobacco products stated above and governed by AFI 40-102, *Tobacco Use in the Air Force*.
- Supervisors at every level will ensure this policy is followed. Disciplinary action is appropriate for repeated violations.
- Updates to this policy will be made in the future to further align with Air Force guidelines.
- This policy remains effective until rescinded. (This policy is dated December 20, 2013)

## Action Line

**Team AEDC**

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

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

Col. Rodney Todaro  
AEDC Commander

# Test facility team receives Exemplary Civilian Service Award



AEDC Commander Col. Rodney Todaro (left) presents the Exemplary Civilian Service Award to the T-11 Test Facility Return-to-Service Team who includes left to right, Michael Lazalier, Propulsion Plant Asset manager; Ashley Colvin, Aeropropulsion Instrumentation, Data and Controls engineer; and Devon Parker, senior manager with Test Facility Planning. The award, presented Feb. 15 at AEDC, was to recognize the engineering leadership of an integrated Air Force and ATA team during the restoration of the Engine Test Facility test cell T-11 at less than 15 percent of the estimated cost. (U.S. Air Force photo/Holly Fowler)



## 2016 AEDC Area Spring Turkey Hunting Regulations meeting scheduled

By AEDC Natural Resources

A pre-season AEDC Security Area turkey hunting meeting will be held at the Arnold Lakeside Center March 22 at 1 p.m. for AEDC military, government civilians and all contractors.

Hunters must attend a meeting or will not be allowed to hunt.

Hunting Permits can be purchased at Outdoor Recreation (Bldg. 3055) prior to the briefing. A permit fee of \$10 plus a \$2 agent fee (to Services) is required for each registrant, including dependents. Hunters must bring the permit receipt and state hunting license to the meeting and complete a Hunter Information Sheet to be issued a hunting permit.

## New gate zone speed limit notifications posted

Motorists should abide by the new 40 mph solar speed limit signs posted on Wattendorf highway at AEDC approaching the Main Gate entrance and Gate 2 entrance to the Complex. The speed limit signs flash with yellow lights to alert drivers to follow the 40 mph speed limit during the gate peak operation hours of 6-8 a.m. and 3-5 p.m., Monday through Friday. The speed limit on Wattendorf passing in front of both gate entrances is 55 mph at all other times. (U.S. Air Force photo)

# Area elementary student chosen as a national winner of Reach for the Stars Rocket Competition

By Deidre Ortiz  
ATA Public Affairs

Samuel Mansfield, fifth grade student at Robert E. Lee Elementary School and son of GP Strategies engineer James Mansfield, won the local Reach for the Stars Rocket Competition last year and was recently selected as a winner at the national level.

Samuel is one of four students that will be recognized as a Reach for the Stars national winner and be part of a special celebration April 16 at the Kennedy Space Center in Florida. While there, Samuel will be able to tour the Astronaut Hall of Fame and have the opportunity to launch his winning rocket. He will also receive a Space Shuttle Challenger commemorative medal signed by Challenger pilot Astronaut Jon McBride.

The Reach for the Stars National Rocket Competi-

tion is an educational outreach program giving young students the opportunity to build and launch their own solid-fuel powered rocket. Each entry receives a complete rocket kit to build, launch and keep.

The program was co-founded in 2005 by former science teachers Jack and Kathy Colpas. Their goal is to inspire an interest in Science, Technology, Engineering and Math subjects and to celebrate the first teacher in space, Christa McAuliffe, of NASA's Space Shuttle Challenger.

James Mansfield said his son has always been interested in taking apart and building things and mentioned that over Christmas break he put together a motorized LEGO® Crawler Crane and LEGO Service Truck in only three days.



Jere Matty (center), director of the AEDC STEM Program, congratulates Samuel Mansfield, left, on winning the local Reach for the Stars Rocket Competition. The competition was held August 2015 at the University of Tennessee Space Institute. (Courtesy photo)

See WINNER, page 4

WINNER from page 3



After winning the local Reach for the Stars Rocket Competition, Samuel Mansfield's score was sent to national judges. Samuel and his family recently received notification that he is one of four students that will be recognized in April at a national ceremony at the Kennedy Space Center in Florida. Samuel is pictured here with a rocket he built and launched. (Courtesy photo)

"Even at an early age Samuel has had an eye for different things," he said. "As just a toddler, he would often ask for things such as hoses and ropes for his birthday instead of toys. In fact, he never misses an opportunity to take something apart that is being discarded in order to see how it works. He's taken apart old washing machines, microwaves and vacuum cleaners.

"The funny thing is that he still carries a spool of rope to baseball practice in case he needs to climb a tree or tie something up."

Mansfield mentioned that in addition to baseball and archery, Samuel's year has been full of STEM activities. He was a member of the FIRST® LEGO League team at East Lincoln Elementary School, as well as a participant in the Reach for the Stars competition, hosted in August 2015 by the AEDC STEM Program and the local chapter of the

American Institute of Aeronautics and Astronautics at the University of Tennessee Space Institute.

"This was a really fun day for the students who had the opportunity to build rockets and launch them," Mansfield said.

Because it has been several months since the local Reach for the Stars competition, the Mansfield family was surprised and ecstatic to hear the news of Samuel's national win.

"You can imagine our surprise when we received a congratulatory email saying he was a national winner and he would get to launch a rocket from Cape Canaveral," Mansfield said. "When I told Samuel, his response was 'cool!'"

Before heading to Kennedy Space Center, Samuel will also be congratulated by AEDC Commander Col. Rodney Todaro during a recognition ceremony April 13 at AEDC.

# AFMC strategic plan to help carry Air Force to Third Offset

By Stacey Geiger  
Air Force Materiel Command Public Affairs

**WRIGHT-PATERSON AIR FORCE BASE, Ohio** – Agility and innovation are cornerstones of a new Air Force Materiel Command strategic plan that will deliver war-winning capabilities. Those capabilities will propel the Air Force as a key element of the future national defense strategy known as the Third Offset.

The first "offset" came in the 1950s when the United States looked to tactical nuclear weapons to deter, or offset, large, conventional forces in Western Europe. The second offset came in the 1970s when the Soviet Union achieved nuclear parity and the U.S. sought an advantage by turning to precision-guided weapons.

The Third Offset is the Department of Defense strategy to leverage new technologies to offset advances made by adversaries in recent years. It will draw on technologies such as artificial intelligence, autonomous systems and human-machine networks. A battlespace of the year 2030 could see F-35s or a next-generation aircraft linked by satellite networks, cyber bugs that infect and take down adversaries' computers and swarms of attack drones converging on enemy targets.

AFMC, with its ability to deliver and support agile war-winning capabilities, is crucial to providing those technologies and connecting them across the Air Force's three domains of air, space and cyberspace. The strategic plan with its four goals, supporting objectives and a list of external and inter-

nal commitments will be AFMC's blueprint for success.

"Our Air Force is in high demand around the globe every minute of every day. While it remains the world's greatest Air Force, it must become more agile to operate effectively in the dynamic, ever-changing worldwide environment today—and tomorrow," said AFMC Commander Gen. Ellen Pawlikowski. "The expertise in our centers and laboratories puts us in the perfect position to deliver Third Offset capabilities and this strategic plan is the bedrock of our road ahead."

In the plan, the command's mission statement is short and declarative: "deliver and support agile war-winning capabilities."

The command's vision is "delivering the world's greatest air force...the most trusted and agile pro-

vider of innovative and cost-effective war-winning capabilities." AFMC will constantly strive to attain the vision with a focus on meeting the warfighter's needs.

The heart of the strategic plan is its four goals:

- Increase agility of AFMC support to the Air Force enterprise
- Bolster trust and confidence of those we serve by meeting our commitments
- Drive cost-effectiveness into the capabilities we provide
- Recruit, develop, and retain a diverse, high-performing, and resilient team

To ensure AFMC achieves its goals, its six centers and the headquarters staff developed 11 supporting objectives and 35 commitments that will be measured, tracked and assessed throughout 2016. The commitments will

help deliver the requirements of AFMC's warfighter "customers" across the Air Force as well as enable the command's 80,000-member workforce to do its job better.

The commitments are extensive and diverse. They range from providing assessments of adversary cyber threats to achieving major acquisition milestones to "people" commitments like improved support to the families of deployed military members.

"These commitments are important to our success," Pawlikowski said. "We will track them and ensure our people are accountable for their fulfillment. Without strong commitments, our strategic plan cannot succeed."

The new strategic plan can be found at: <http://www.afmc.af.mil/shared/media/document/AFD-160315-050.pdf>

## Hill's F-35s drop first weapons



Airman Juan Rivas, Senior Airman Darion White and Staff Sgt. Jeffrey Kalsbeek, all 34th Aircraft Maintenance Squadron load crew members, prepare to equip an F-35A Lightning II with a GBU-12 laser-guided bomb at Hill Air Force Base, Utah, Feb. 23. (U.S. Air Force photo/R. Nial Bradshaw)

By Nathan Simmons,  
388th Fighter Wing

**HILL AIR FORCE BASE, Utah (AFNS)** – Airmen from the 388th and 419th fighter wings dropped laser-guided bombs at the Utah Test and Training Range the week of Feb. 25, marking the first time an F-35 Lightning II combat unit has deployed weapons from the F-35A.

Lt. Col. George Watkins, the 34th Fighter Squadron commander, said dropping weapons from the F-35 allows pilots to more fully engage the aircraft and confirm that everything works as planned.

"This is significant because we're building the confidence of our pilots by actually dropping

something off the airplane instead of simulating weapon employment," Watkins said.

Air Force F-35s have dropped weapons in test environments, but this is the first time it's been done on jets designed to deploy once the Air Force declares initial operational capability, which it plans to do between August and December. IOC will be announced when the Air Force deems the F-35 combat capable.

Lt. Col. Darrin Dronoff, the director of Hill's F-35 Program Integration Office, said that while this achievement is a significant step toward Air Force IOC, the milestone goes beyond that mark.

"The pilots and weapons loaders in the 388th

and 419th fighter wings are perfecting their skills not only to prove aircraft capabilities, but they'll also be the Airmen called upon to take the F-35 to combat, whenever that call may come," he said.

Hill's F-35 pilots will begin flying the F-35 in four-ship formations, which is the standard configuration flown in contested combat scenarios, as early as March.

*Editorial note: AEDC has teamed with Lockheed Martin in an integrated test and evaluation effort to support design and development of the F-35 Lightning II Joint Strike Fighter. External weapons release for the F-35 JSF has been extensively tested in the aerodynamic wind tunnels at AEDC.*

### ENGINE from page 1

The engine completed four air-on days to carry out icing, operability, re-lighting, starting and performance testing.

"All test objectives were met acquiring high quality data," Sahota said.

"It was a tremendous team effort."

Melissa Tate, AEDC test manager with the Aeropropulsion Ground Test Branch, also noted that AEDC has a long working relationship with

Rolls-Royce.

"We appreciate the opportunity to meet their testing needs," she said. "The team worked really hard during this test to ensure a successful outcome."

### ENERGY from page 1

"NORESKO has already identified some great potential ECMs (energy conservation measures) at Arnold, including some efforts within

the industrial area," said Morgan Hurst, the AFCEC project manager. "I'm looking forward to seeing how they build on that in the [Investment

Grade Audit]."

*Some information above was taken from a release by The Air Force Civil Engineering Center Public Affairs Office.*

# AFMC announces, honors annual award winners

**WRIGHT-PATTERSON AIR FORCE BASE, Ohio** – Air Force Materiel Command honored its top Airmen of 2015 during the command's Annual Excellence Awards Banquet March 9.

Fifty-eight Airmen from throughout AFMC's headquarters, centers and wings were nominated to compete in nine separate categories – airman, non-commissioned officer, senior NCO, first sergeant, company grade officer, field grade officer, civilian category I, civilian category II and civilian category III.

More than 300 family members, friends, community leaders and command officials gathered in the modern flight gallery of the National Museum of the United States Air Force to honor the nominees.

The winners are:

**Airman Category** - Senior Airman Raquel R. Caramanno, Air Force Test Center, Edwards Air Force Base, Calif. As a Medical Readiness Technician, Caramanno expertly filled in as the Medical Readiness Flight Commander and Noncommissioned Officer in Charge for a period of 15 months, leveraging a 50 percent workload increase despite a 50 percent staff loss. Additionally, she flawlessly led 17 Medical Contingency Response teams while managing \$1 million in War Reserve Materiel assets.

**Non-Commissioned Officer Category** - Technical Sgt. Kasmir A. Alford, Air Force Sustainment Center, Tinker Air Force Base, Okla. Alford distinguished herself as Non-Commissioned Officer in Charge of Laboratory Services when she successfully filled a senior non-commissioned officer position and flawlessly directed laboratory operations, completing an outstanding 198,000 test results. Alford also devised a medical deployment operations plan, coordinating with 13 agencies and two wings and bolstering Tinker's readiness rate by 5 percent.

**Senior Non-Commissioned Officer Category** - Master Sgt. Randy R. McKenzie, Air Force Life Cycle Management Center, Wright-Patterson Air Force Base, Ohio. McKenzie distinguished himself as the Dormitory Operations Superintendent by providing exceptional leadership and mentorship to 408 personnel, overseeing 5 facilities and \$28 million in government assets. During his deployment he forged an elite team which tracked and accounted for 22,000 Other Country Nationals protecting 508 Joint and Coalition personnel in support of Operations INHERENT RESOLVE and FREEDOM'S SENTINEL.

**First Sergeant Category** - Master Sgt. Brian S. Partido, Air Force Sustainment Center, Tinker Air Force Base, Okla. Partido's leadership as a First Sergeant was instrumental in promoting the health, morale and welfare of 543 personnel. Responsible to five commanders and 238 military personnel, he flawlessly developed the Team Tinker Retreat program, where he standardized 12 base organizations to conduct monthly ceremonies. Additionally, Par-



**Air Force Materiel Command's 2015 Annual Excellence Award winners gather with AFMC leadership after the awards ceremony March 9. From left are Michael Gill, AFMC Executive Director; Andrew Mendoza; Eric Brickson; Steven Smith; Maj. David Jarnot; Capt. Jae Jeon; Gen. Ellen Pawlikowski, AFMC Commander; Master Sgt. Brian Partido; Master Sgt. Randy McKenzie; Technical Sgt. Kasmir Alford; Senior Airman Raquel Caramanno; and Chief Master Sgt. Michael Warner, AFMC Command Chief. (U.S. Air Force photo/Albert Bright)**

tido deployed in support of 554 Airmen, where he managed five emergency leaves and guided his unit through the near loss of one member.

**Company Grade Officer Category** - Capt. Jae H. Jeon, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio. As Deputy Chief of the Electro-Optics Countermeasures Branch, Jeon seamlessly led the research and development efforts for 19 government employees and 53 contractors, providing guidance to three labs and programs totaling \$21 million. He identified key requirements for a flight test, the results of which will be used to protect aircraft against electro-optic/infrared missile threats. Additionally, Jeon coordinated the transfer of three cube satellite platforms, securing \$1.5 million in support funding while saving \$5 million.

**Field Grade Officer Category** - Maj. David R. Jarnot, Air Force Sustainment Center, Hill Air Force Base, Utah. Jarnot showcased his leadership abilities as Pharmacy Flight Commander, leading Utah's busiest outpatient pharmacy operation, processing 335,000 pre-

scriptions and a \$15 million operations budget. Jarnot also led a group to maximize and standardize "best practice" operations across 74 Air Force pharmacy locations. He developed a plan for tri-service standardization in improving the pharmacy patient experience for TRICARE beneficiaries. Jarnot was selected as the Next Generation Military Pharmacist of the Year for 2015, the first Air Force recipient of this prestigious tri-service award.

**Civilian Category I** - Steven L. Smith, Air Force Sustainment Center, Robins Air Force Base, Georgia. Smith used his expertise as a Firefighter while responding to a High Angle Rescue cardiac arrest emergency where he performed CPR and saved a life. Additionally, he managed multiple additional duty programs totaling \$270,000. Smith organized local fundraisers for the Muscular Dystrophy Association and Children's Burn Foundation, Macon Children's Hospital, Camp Dream and Helping Hearts Day programs and composed \$220,000 in state grants for mutual aid ambulance service in the local community.

**Civilian Category II** -

Eric T. Brickson, Air Force Test Center, Wright-Patterson Air Force Base, Ohio. As a Test Engineer, Brickson skillfully collaborated with representatives from the KC-46 Program Executive Office and the Office of the Director of Operational Test and Evaluation to conduct critical Live Fire Test and Evaluation of the KC-46 aircraft. As a first-ever, he integrated the results into the KC-46 Systems Integration Laboratory to improve pilot-in-the-loop simulations and foster unique aircrew training opportunities that significantly enhance tactics, techniques and procedures.

**Civilian Category III** - Andrew M. Mendoza, Air Force Installation and Mission Support Center, Joint Base San Antonio, Texas. Mendoza distinguished himself as Deputy Director of Installations Planning, Office of the Deputy Assistant Secretary of the

Air Force for Installations, as well as Lead Civil Engineer Program Analyst at AFIMSC. Mendoza's outstanding leadership and ceaseless efforts led to Secretary of Defense approval of the closure and realignment of eight European bases, saving the Air Force \$250 million per year. Furthermore, Mendoza represented Headquarters Air Force in supporting the Department of State in negotiations with a key North Atlantic Treaty Organization ally regarding planned reductions, ensuring a streamlined Air Force presence and savings of \$35 million per year. Finally, Mendoza developed new business rules for five major Air Force programs that merge Air Force Common Output Level Standards with the Program Objective Memorandum process, resulting in a huge paradigm shift for Air Force civil engineers.

Gen. Ellen Pawlikowski, AFMC commander, hosted the awards ceremony. After congratulating all the nominees and winners on a job well done, she thanked them for their excellence.

"The men and women of Air Force Materiel Command are represented brilliantly by the people in this room tonight," Pawlikowski said. "These nominees represent the best of the best, and what they do for our command every day is nothing short of phenomenal."

The winners in the four enlisted categories will go on to represent AFMC in the United States Air Force Twelve Outstanding Airmen of the Year and First Sergeant of the Year competitions held later this year.

*Editorial note: First Lt. Christopher Handy from AEDC was a nominee for the AFMC 2015 Annual Excellence Awards.*





# Celebrating Women's History Month

By Tech. Sgt. Nadine Y. Barclay  
432nd Air Expeditionary Wing Public Affairs

**CREECH AIR FORCE BASE, Nev. (AFNS)** – It has been said that “you can’t know where you’re going without knowing where you’ve been.” For some, this quote may not mean much, but for the women of the 432nd Wing/432nd Air Expeditionary Wing, who provide the Air Force’s largest remotely piloted aircraft enterprise with support, this statement rings true.

Women’s History Month started as a national celebration in 1981, when Congress authorized the president to proclaim the week beginning March 7, 1982, as Women’s History Week.

In 1987, Congress des-

ignated the month of March 1987 as Women’s History Month. Since 1995, Presidents Bill Clinton, George W. Bush and Barack Obama have issued a series of annual proclamations designating the month of March as Women’s History Month.

On a daily basis, these women provide intelligence, surveillance and reconnaissance support; maintain both the MQ-1 Predator and MQ-9 Reaper; safeguard control centers; administer medications; file records and maintain secured communications capability. They also command squadrons; fly aircraft and tell the Air Force story.

During March, women and their contributions to national defense are celebrated, regardless of different backgrounds, nations or creeds.

Staff Sgt. Esther Blake was the first female to enlist in the newly formed Air Force on July 8, 1948, on the first hour of the first day women were authorized to join. Since that day, women all over the world have followed in her footsteps.

Airmen like Lt. Col. Mackenzie, who serves as the only female commander at Creech Air Force Base, Nevada. She commands 320 men and women of the 432nd Aircraft Maintenance Squadron, to include two aircraft maintenance units that provide aircraft maintenance needed to sustain global RPA operations.

Women of the 432nd WG serving in command positions, both past and present, have achieved historic milestones while serving their country.

Women like Lt. Col. Shawna Rochelle Kimbrell,

who broke racial barriers when she became the first black female fighter pilot, didn’t have an easy road to success. She joined the Civil Air Patrol, worked at air shows and earned her private pilot’s license. She was eventually accepted into the U.S. Air Force Academy. She did all of this despite being told there was no such thing as a female fighter pilot. She earned her pilot wings in August 1999.

These women represent the caliber of women serving in today’s officer corps. According to the Defense Department, there are a total of 60 female military flag officers with 21 of those belonging to the Air Force, the most in any military branch.

Female Airmen also serve in key enlisted positions, including command chiefs, first sergeants and

chaplain assistants. They continuously work to improve the quality of life for Airmen around the Air Force.

Senior Master Sgt. Christin serves as the only female squadron superintendent at Creech AFB. She is the chief enlisted adviser for nearly 290 aviation and intelligence Airmen and aviation resource management personnel, while integrating Air Force Reserve Command members. Together they provide 24/7 combat support to combatant commanders in multiple areas of responsibility. She also served as Creech AFB’s Top 3 president and vice president, and currently teaches unmanned aircraft system courses at Embry-Riddle Aeronautical University.

Despite any misconceptions about women serving

in today’s military, in a recent statistics release from the DOD, women make up 29 percent of all Air Force military personnel and 30.5 percent of all civilian personnel, with nearly equal representation in both the officer, 20.3 percent, and enlisted, 18.9 percent, corps.

Of the officers, 55 percent of the female officers are line officers, and 45 percent are non-line officers; and of the 307,001 active-duty personnel, 58,785 are women, with 676 female pilots, 288 navigators and 223 air battle managers.

In a 2015 presidential proclamation, Obama said, “We honor the many patriots who have shaped not only the destinies of other women, but also the direction of our history. Let us resolve to build on their efforts in our own time.”

## Malmstrom female commander breaking barriers in engineer field

By Airman Daniel Brosam  
341st Missile Wing Public Affairs Office

**MALMSTROM AIR FORCE BASE, Mont. (AFNS)** – Looking down the road as a new lieutenant in 1994, Col. Yvonne Spencer never imagined she would be in the position she is in today – a colonel and commander of one of only four active-duty RED HORSE units.

Spencer took command of the 819th RED HORSE Squadron in July and is the first African American and first female to lead her squadron. She’s also the first African American to

lead an active-duty RED HORSE unit.

RED HORSE (Rapid Engineer Deployable Heavy Operations Repair Squadron Engineers) squadrons provide the Air Force with a highly mobile civil engineering response force to support contingency and special operations worldwide.

Spencer said when she thinks back on the past and the pioneers who paved the way for females, she feels the Air Force is carrying on the legacy.

“My Air Force is getting it right,” she said. “My Air Force is accepting people for what they bring to the fight and not

their packaging. They are looking at skills, capabilities, enthusiasm and successes.

“We are embracing those ideals that the military is known for,” she continued.

Only two other females have been civil engineer commanders including retired Col. Susanne Waylett, former 823rd RHS commander and the first military woman to enter the Air Force civil engineering career field, and Maj. Gen. Theresa Carter, the first female engineering officer promoted to the rank of brigadier general.

See **BARRIERS**, page 11



Then-Lt. Col. Yvonne Spencer presents an award to Sai Shasrp in Kabul, Afghanistan, during a Transatlantic District North house meeting in 2012. (USACE photo/M. Beeman)

# WASPs were pioneers for female pilots of today, tomorrow

By Shannon Collins  
Defense Media Activity

**WASHINGTON (AFNS)** – Before there could be a first female Thunderbird pilot or women flying combat missions into Iraq and Afghanistan, there were the pioneers: the Women's Airforce Service Pilots of World War II.

In September 1942, nine months after the attack on Pearl Harbor, Army Air Forces commander Gen. Henry H. "Hap" Arnold stood up the Women's Auxiliary Ferrying Squadron, or WAFS, and the Women's Flying Training Detachment, or WFTD.

According to the Air Force Historical Support Division, both units merged July 5, 1943, into a single unit for all women pilots who were rapidly extending their qualifications to every type of aircraft in service. The new unified group called itself the Women's Airforce Service Pilots, or WASP, with its pilots known as WASPs.

## Training

The women paid their own way to travel to basic training at Avenger Field in Sweetwater, Texas. More than 25,000 women applied, even some from Canada, England and Brazil, said Bernice "Bee" Falk Haydu, a WASP pilot from Montclair, New Jersey. But only 1,830 U.S. women were accepted into the program. Of those, 1,074 earned their wings.

To qualify, applicants had to be at least 5 feet, 4 inches tall, pass Army physicals and have a pilot's license, Haydu said. Women also had to have at least a high school diploma and be age 18 to 35.

"Most of the women were college graduates, but the toughest part of the training was you started out in a basic aircraft and then you'd go to a medium and then an advanced," Haydu said.

When she joined the WASP program in 1944, she said training was being accelerated.

"They wanted to experiment with the women to see if they could eliminate one of the phases of training, so we went from the Stearman, which is an open cockpit biplane, in primary (training), and after about 60 to 70 hours of that, we went directly into the advanced, which was the AT-6 (Texan) -- that's 650 horsepower compartmented to 220 horsepower," she said. "It was successful. Most of the washouts were in primary training. The men adopted the same training."

During training, women had to pay for their dress uniforms and their room and board but were issued men's coveralls that they nicknamed "zoot suits," Haydu said. There were six women per bay in the barracks, with one latrine, one sink, one shower, and one toilet. If the winds kicked up, the women would lie on the bottom wings of the airplanes to help keep them down, she said, "because they needed more weight to keep the airplanes on the ground."

## Missions

After graduating, the women would go to either Ferrying Command or Training Command. Lucile Doll Wise was a pilot at Ferrying Command, and she said she ferried aircraft from factories to air bases and points of embarkation.

"There was an alarming shortage of pilots at the beginning of the war," Wise said, "and we delivered more than 12,000 aircraft in the two years we operated. We also performed many other domestic flying duties."

"I loved every minute of it," she added, "but it was not easy. It was hard work, and I came back from trips pretty tired."

Haydu served as an engineering test pilot and a utility pilot in the Training Command, where the women's missions ranged from towing aerial targets for the infantry, flying tracking missions, smoke-laying, searchlight strafing and simulated bombing, and testing radio-controlled aircraft. The women were also flight instructors, engineering test pilots and utility pilots and performed all stateside flying duties.

"If an engine needed to be flown a certain manner for a certain number hours before it went into regular service, I would do that," she said. "I also would fly personnel to wherever they had to go."

Haydu said she was disappointed when the WASPs were disbanded on Dec. 20, 1944, just 11 days before she was to begin training to fly the B-25 Mitchell bomber. The last class graduated Dec. 7, 1944.

Arnold told the last crop of pilots, "We of the (Army Air Forces) are proud of you; we will never forget our debt to you."

According to the Air Force Historical Support Division, the WASPs ferried more than 50 percent of the combat aircraft within the United States during the war years and flew at 126 bases across the country. Thirty-eight of these women died in their service: 11 in training and 27 during missions.

## Doing 'everything the men did'

"We flew every aircraft manufactured for World War II, and one of the WASPs was sent to Dayton, Ohio, where they did testing and actually flew a prototype jet, so we just did everything the men did," Haydu said.

For example, Betty Tackaberry Blake, who flew tourists in Hawaii in an open cockpit biplane before World War II, was in the first class of the WFTD. Later, while in the service of the WASPs, she flew all of the fighter aircraft in the U.S. inventory and also the B-25 Mitchell, B-26 Marauder and B-17 Flying Fortress bombers and C-47 Skytrain cargo aircraft, as well as all of the trainers. She also flew four-engine aircraft. After the WASPs were disbanded, she became a Link Trainer instructor, where she taught instrument flying on the ground.

The first WASP to be killed in action was Cornelia Fort, 24, of Nashville,



**Betty Wall Strohfus, right, a former pilot with the Women Airforce Service Pilots (WASP), sings the national anthem during the Congressional Gold Medal ceremony at the U.S. Capitol in Washington, D.C., March 10, 2010. The Congressional Gold Medal is the highest civilian award bestowed by Congress. The WASP program, established during World War II, trained women to fly noncombat military missions. (U.S. Air Force photo/Staff Sgt. J.G. Buzanowski)**

Tennessee, who died in a mid-air collision in Texas. In an interview before her death, she said she became a WASP because of her commitment to serving her country and because she was in the attack on Pearl Harbor as a civilian pilot. Her Interstate Cadet was riddled with bullets, though the Japanese invaders missed the gas tank. She said she lost friends that day.

"Delivering a trainer to Texas may be as important as delivering a bomber to Africa if you take the long view," Fort said. "We are beginning to prove that women can be trusted to deliver airplanes safely and in the doing, serve our country, which is our country too."

She said she realized the importance of their mission because of an event at her graduation.

"While we were standing at attention, a bomber took off, followed by four fighters. We knew that bomber was headed across the ocean and that the fighters were going to escort it part way. As they circled over us, I could hardly see them for the tears in my eyes," Fort said.

"It was striking symbolism, and I think all of us felt it. As long as our planes fly overhead, the skies of America are free and that's what all of us everywhere are fighting for," she continued. "And that we, in a very small way, are being allowed to help keep that sky free is the most beautiful thing I have ever known. I'm profoundly grateful that my one talent, flying, happens to be of use to my country."

## The fight for recognition

The women were initially paid as civil service employees, with the promise that they may be able to join the Army Air Forces afterward.

Arnold told the WASPs, "We have not been able to build an airplane that you can't handle. It is on the record that women can fly as well as men."

He planned to commission the women pilots as second lieutenants within the Army Air Forces, but political opposition meant the plan never came to fruition.

As a result, the WASPs were left without the benefits to which veteran's status would have entitled them, and the families of the girls who had been killed in the performance of their duties were denied the gratuities which they would have received as beneficiaries of military personnel.

For 35 years, the women weren't allowed to call themselves veterans and their records were classified and sealed from the public. They fought Congress and pushed for publicity. Haydu said they didn't care as

much about the benefits as much as for the chance to serve and to be recognized as veterans.

When the first women began to enter the service academies in 1976 and to fly military aircraft, contemporary media reports indicated that it was the first time women could fly for the U.S. military.

Haydu was president of the WASP veterans' organization at the time, and members lobbied and spoke to the media until their service was finally recognized by Congress.

The legislation "became the only piece of legislation in history to be co-sponsored by every woman member in Congress," she said. "One of the long overdue items included in the WASP bill was for the women telephone operators of World War I to be recognized as war veterans. They had never been given this status, in spite of the fact they were stationed in the front line trenches side-by-side with the fighting soldiers."

See **WASPS**, page 10

# AEDC Woman's Club focus is on women, youth and education

By Barbara McGuire  
AEDC Woman's Club

The March 1 meeting of the AEDC Woman's Club featured Susan Binkley, founder of an area addiction recovery program for women called The Blue Monarch.

Binkley was accompanied by Kate Suttles, also with Blue Monarch. Together they presented information about many of the women participating in the program and how they have worked to change destructive patterns in their lives. Those in attendance also watched a video of the women and their children telling about their lives and how Blue Monarch has helped them build their new lives. At the end of the day, through the generosity of the club's membership, Blue Monarch was presented a check for \$500.

The guest speaker for the April 5 meeting at the Arnold Lakeside Center is Dr. Rhea Seddon, a native of Murfreesboro and a doctor in general surgery.



**Blue Monarch founder Susan Binkley (third from right) accepts a \$500 donation from the AEDC Woman's Club at the AEDCWC meeting, March 1 at the Arnold Lakeside Center. Pictured left to right are AEDCWC members Kate Canady and Anne Wonder; Binkley; Blue Monarch employee Kate Suttles; and AEDCWC members Susan Harris, Dawn Hayner and Barbara McGuire. (Courtesy photo)**

She became an astronaut in 1978 and is one of the first six female astronauts.

Seddon flew on three space shuttle missions for a total of 30 days, primarily studying the human adaptation of weightlessness. She married fellow astronaut Capt. Robert "Hoot"

Gibson.

Seddon left the astronaut program in 1996, moved back to Murfreesboro and worked at Vanderbilt University Medical Center for 11 years. She then taught healthcare professionals all over the country about

teamwork. She was inducted into the Astronaut Hall of Fame and the Tennessee Women's Hall of Fame last year and recently published a book about her NASA experiences titled *Go for Orbit*.

Seddon will be speaking to the club about her

life experiences and the importance of a good education. Anyone interested in hearing Seddon should call and make a reservation; there is a \$10 charge. The Woman's Club will also be introduced to the new scholarship recipients from local high schools at

the meeting. Table donations from the April meeting will go toward the Hospice of the Highland Rim Foundation, Inc.

The April meeting is open to the public and provides the opportunity to meet the AEDCWC members and become a member. You don't need to have military connections or be involved with Arnold Air Force Base to visit and become a member.

For information about the AEDCWC call 455-3569.

The social hour of the meeting starts at 9:30 a.m., with the business meeting and program beginning at 10 a.m.

Reservations and cancellations must be made no later than noon, March 29. Make reservations or cancellations by calling 931-393-2552 or 931-636-4152.

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

## 45th Space Wing successfully launches Falcon 9 SES-9

By 45th Space Wing  
Public Affairs

**CAPE CANAVERAL AIR FORCE STATION, Fla. (AFNS)** – The 45th Space Wing supported the SpaceX Falcon 9 launch of the SES-9 communications satellite March 4 from Launch Complex 40 at Cape Canaveral Air Force Station.

SES-9 was built by Boeing Satellite Systems and is designed to operate for 15 years in geosynchronous orbit. The satellite increases SES's global video capabilities in Asia, Indonesia and the Philippines, and is also designed to deliver reliable data connectivity across Asia while providing support to growing mobility communications needs across the Indian Ocean, according to

an SES release.

A combined team of military, government civilians and contractors from across the 45th SW provided support to the mission, including weather forecasts, launch and range operations, security, safety and public affairs. The wing also provided its vast network of radar, telemetry, and communications instrumentation to facilitate a safe launch on the Eastern Range.

Col. Shawn Fairhurst, the 45th SW vice commander, who served as the launch decision authority for this mission, lauded the efforts of all those involved in making this launch a success.

"Congratulations to SpaceX and the entire team who ensured the success of this launch. We truly have



**The 45th Space Wing supported the SpaceX Falcon 9 launch of the SES-9 communications satellite March 4 from Launch Complex 40 on Cape Canaveral Air Force Station, Fla. The satellite increases SES's global video capabilities in Asia, Indonesia and the Philippines, and is also designed to deliver reliable data connectivity across Asia while providing support to growing mobility communications needs across the Indian Ocean. (Courtesy photo/SpaceX)**

a tremendous space team here on the space coast, and it's my honor to be a

part of this mission supporting the commercial space industry," he said.

"Assured access to space is a team sport and here on the Eastern Range, we

continue to prove we are the 'world's premier gateway to space.'"

### WASPS from page 9

#### Victory at last

What sealed the deal, Haydu said, was the WASPs in their Santiago blue uniforms descending on Washington after sending letters and telegrams, making telephone calls and pushing publicity in their home towns.

President Jimmy Carter signed Public Law 95-202, Title IV, on Nov. 23, 1977, which granted former

WASPs veteran status with limited benefits. The Air Force graduated its first female pilots that same year. In 1984, the WASPs received World War II Victory Medals and, for those who had served more than one year, American Theater Ribbon/ American Campaign Medals.

On March 10, 2010, the Congressional Gold Medal, the highest civilian

award bestowed by Congress, was presented to the WASPs. Haydu said she was tremendously proud and happy the WASPs finally received their recognition.

#### Female pilots of the future

Haydu said she enjoys sharing her stories with Air Force service members and at Boys and Girls Clubs, and said that during

her speeches, her goal is to stress equality.

"It's not what sex you are," she said. "It's what you can do, and if you can be successful at something that should be all that should matter. You should pursue whatever it is you want, and you should not allow people to say, 'Oh, you can't do that.' Just do the best you can and I hope you can make it."

Both Wise and Haydu said they are impressed by the female airmen of today.

"I'm so impressed by what women pilots are doing today, flying combat missions," Wise said. "The military is not for everyone but it offers a great opportunity to young women."

"I admire the women who fly today," Haydu

said. "The navigation has changed so much. There have been huge improvements. All-women crews are just fantastic. They do every job, from the loadmaster to the navigator to the pilot, to every job that there is to be done in the aircraft. It just proves that an airplane knows no sex. It doesn't know whether a man or a woman is flying it."

**BARRIERS** from page 8

Spencer's success speaks volumes for people wanting to lead and be successful, even when she may not have received as much support as she would have liked.

"I was putting together my package to apply to the Air Force Academy," she said. "I asked one of my instructors for a letter of recommendation and he declined. He told me, 'I don't think you have what it takes.'"

"In hearing that, it was almost additional fuel to my fire," she continued. "In the back of my mind all I kept saying was 'watch me.'"

Even though Spencer's potential may have been doubted in the beginning, she worked hard and has risen through the ranks from lieutenant to colonel, proving herself to others that it is not physical attributes that matter, but what an individual brings to the table that counts.

"If you're attempting to do something and you're thinking 'I'm a female' or 'I'm this or that,' my reply to you is 'so what?'" Spencer said. "What do you have on the inside?"

"You need to look within yourself and say 'what am I bringing to the fight?' and you keep mov-

ing in that direction," she added. "Do not take 'no' for an answer."

In her more than 20 years of success in the service, Spencer recalled one of her favorite memories while serving with her fellow Airmen.

"(One of my favorite memories was) the opportunity, as a major, to be a detachment commander," she said. "I was responsible for getting my folks, preparing them for the deployment and bringing everyone back in one piece. That was my first true opportunity to be a leader."

"It was a great feeling spending time with my

Airmen and getting them back to their families," she continued.

Spencer said one of her proudest accomplishments was pinning on the rank of colonel because she never knew it was going to happen.

"You sit there as a lieutenant and look and see down the road and think 'there's no way, I'm not going to be able to do that,'" she said. "But I was able to achieve that level of rank. My family and friends were there sharing that accomplishment."

She added the accomplishment was not about her, but something larger.

"It was about the folks that I looked out to in the audience," she said. "Each one of them played a part in my success, small or large, and they fed into this machine that I am and to help me be successful. I am just so very thankful for it."

"I feel so privileged and honored that the Air Force believes in me to give me this level of responsibility."

When speaking about success, people speak of keys to success. Spencer's advice is just two words.

"Be nice," she said. "When I say that, it really means to be respectful to

others. Showing that you care and just being nice to folks. Treat people the way you want to be treated. At the end of the day, we're a big Air Force, we're a big machine but the machine doesn't run without the people."

Spencer's story can be relatable to anyone with potential and the "nothing will stop me attitude." She said if it's something that is important to an individual, a way to achieve that something will be made, the excuses will be removed and it will be achieved.

"You just can't stop," she said.

# 2016 April

Support the Earlier Opening  
Could be limited time only

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

**ALC Bar: Thu 5-8, Fri 3-10pm, Sat 5-10pm**  
**Dinner: Thu 5-8pm, Fri & Sat 5-9pm**

ALC - Arnold Lakeside Center, 454-3350  
Café - Café 100, A&E, 454-5885  
ODR/ITT - Outdoor Recreation, 454-6084  
RRRP - Recycling, 454-6068  
Marketing/Sponsorship - 454-3128  
Barber Shop - 454-6987

GC - Arnold Golf Course, 454-GOLF  
MG - Mulligan's Grill, GC, 454-FOOD  
FC - Fitness Center, 454-6440  
WI - Wingo Inn, lodging, 454-3051  
Resource Management - 454-7425  
Admin - 454-7779



Combat Support & Community Service

LIKE US

Arnold AFB Services

|    |    |   |  |   |   |  |
|----|----|---|--|---|---|--|
| 3  | 4  | 5<br><b>Golf League begins</b><br>Arnold Golf Course 4:30pm<br>Sign up by Mar 25<br>Players Meeting 4:30pm Mar 30<br>  | 6  | 7<br>Movie: The Good Dinosaur, PG   | 8<br><b>ALC Jam Night</b><br>6:30pm   | 9<br><b>Arnold Golf Course Team With The Masters</b><br>Apr 9<br><b>Tee off 9am</b><br>\$30 plus cart & green fees<br>18 Holes, Individual Stroke Play<br>Draw a PGA Tour player in The Masters and combine your scores for the day<br>Prizes for gross and net winners<br>Sign up by Apr 8 454-GOLF |
| 10 | 11 | 12<br><b>Café 100 Nat'l Grilled Cheese Day</b><br>Grilled Cheese \$2<br>   | <b>SERVICES IS HIRING!</b><br>Visit <a href="http://NAFJobs.org">NAFJobs.org</a>   |   | 13  | 14<br>Movie: Kung Fu Panda, PG   |
| 17 | 18 | 19<br><b>Group Classes at the Fitness Center</b><br>for eligible users<br> Interval Training Mon*Wed*Fri 3:45-4:30pm<br> Yoga Mon*Wed 11am-12pm<br> Cycling Tue*Thu 11am-12pm<br><b>Classes Anytime with WELLBEATS Kiosk</b><br>Vibe Dance<br>Fusion Mind Body<br>Fit For Duty<br>Rev Cycling<br>TKO Kickboxing<br>Stomp Step Kinetics<br>Ask about Orientation and Scheduling | 20   | 21<br><b>ALC Brushes &amp; Bottles</b><br>\$25 GLC 6pm<br>Sign up by Apr 15<br>454-3350<br>Movie: TBD | 22<br><b>Team Cohesion Challenge</b><br>for Fitness Center eligible users<br>Sign up and submit waiver by Apr 15<br>454-6440<br>Physical Challenge led by Special Operations<br>BE STRONGER, TOGETHER | 23   |
| 24 | 25 | 26  | 27<br><b>Café 100</b><br>Breakfast or Lunch<br>Buy One Combo<br>Get One 1/2 off<br> | 28<br>Movie: TBD  | 29<br><b>ALC Last Friday Trivia</b><br>6:30pm   | 30<br>See details below for <b>Operation MoMC</b><br>(Month of the Military Child)<br><b>THE AMAZING BASE RACE</b>   |



Teams of 4 (or families) start at Arnold Lakeside Center. Race to different stations around ALC, Outdoor Rec, and Wingo Inn. Complete 13 challenges at 9 passport stations in the fastest time. Early sign ups get t-shirt and dog tags. All teams must be accompanied by parent.

Sign up by Apr 28 454-3367

**Apr 30 Saturday**  
**9am-12:30pm**  
**All ages**



