



# HIGH MACH

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## AEDC engineers save test customer \$80K



By Consetta Woosley  
AEDC Contributing Writer

AEDC engineers at the Aeropropulsion Systems Test Facility turbine engine test cell C-1 used their ingenuity and saved an AEDC test customer approximately \$80K.

Dustin Boss, Dylan Welch and Matthew Stiggins proposed a modification to the C-1 Kirk Interlock System which allows the atmospheric hatch to remain open for cell entry during the F101 series of sea level testing in the C-1 turbine test cell. Most importantly, the engineers came up with a way to do this without compromising the safety of the Kirk Interlock System.

The C-1 test cell has an atmospheric inlet hatch that is Kirk interlocked so that the primary inlet valve and the hatch cannot be open at the same time. The original hatch Kirk configuration requires the hatch to be closed in order to bring the test cell "air-off" and allow entry back into the test cell.

(L-R) Dylan Welch, Dustin Boss, and Matt Stiggins review schematics standing in front of the Aeropropulsion Systems Test Facility (ASTF). (Photo by Rick Goodfriend)

See **ENGINEERS**, page 8

## General Bunch tours AEDC STEM Center

By Consetta Woosley  
AEDC Contributing Writer

AEDC's Science, Technology, Engineering, and Mathematics (STEM) Program encourages youth to become engaged in technical fields and Maj. Gen. Arnold Bunch, Commander of the Air Force Test Center at Edwards AFB, Calif., believes such programs are critical to our nation's future.

During the General's visit at AEDC last week, Jere Matty, educational outreach specialist, provided Bunch with a tour of the AEDC STEM Center.

The STEM Center is designed to provide an exciting and interactive learning environment for teachers and students K-12. The mission is to inspire and develop student

interest in STEM careers.

Bunch observed the STEM Center's static and portable wind tunnels in use along with STEM's rocket launchers which teaches students about physics and the dynamics of flight. Bunch also looked at the STEM Center's flight simulator which uses "Learn to Fly" software and experienced the world of astronomy in the 16-foot diameter planetarium.

When asked his thoughts of AEDC's STEM Center, Bunch said, "The center is amazing. It gives kids good insight and appreciation of what we do here at Arnold."

Along with the tour, Bunch also learned about STEM's involvement in the surrounding

See **STEM**, page 3



Maj. Gen. Arnold Bunch (left) learns about the STEM Center's LEGO® robotics program from Jere Matty, AEDC's STEM educational outreach specialist. (Photo by Rick Goodfriend)

## Arnold Community Council, Bowling job fair a success



A representative from Bridgestone talks with a potential employee during the recent job fair sponsored by Arnold Community Council and Tennessee Senator Janice Bowling. (Photo by Jacqueline Cowan)

By Kathy Gattis  
ATA Public Affairs

Organizers and attendees are saying last week's job fair sponsored by Arnold Community Council (ACC) and Tennessee Senator Janice Bowling went very well – with attendance much better than expected.

Almost 150 job seekers and 20 exhibitors participated.

Originally the event was planned for ATA employees who were reduced in force (RIF) and Air Force civilians who were furloughed. Because of changes in AEDC's workload, ATA recalled most, but not all RIF personnel.

Even though the number of ATA employees looking for work decreased, ACC Presi-

dent Steve Cope and Tennessee Senator Janice Bowling decided to proceed with the job fair.

"Our goal was to assist Arnold (AEDC) employees affected by the furlough and ATA employees affected by layoffs and was quickly expanded to do so much more when we included everyone who is unemployed or underemployed in all 13 surrounding communities," said Steve Cope, ACC president.

"It was really rewarding to walk through the fair and see the assistance being provided to those job seekers. They seemed to really appreciate the opportunity and the ACC was honored to play a role in this great event."

Michael March, an unemployed aerospace engineer, said,

"The job fair was excellent! I obtained good information on open positions, job websites and network information leading to other career possibilities, he said. "I really appreciate the ACC setting this up."

Bowling agreed with March's assessment. "The job fair held this week was a tremendous success. I want to thank everyone who helped organize the event, the exhibitors and most importantly, the folks who attended. It is my prayer that job opportunities will be the result of this event."

Cope thanked AEDC Commander, Col. Raymond Toth, ATA General Manager, Steve

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## HIGH MACH

**Arnold Engineering Development Complex**  
An Air Force Materiel Command Test Complex

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- 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 Police keep base safe and secure

By Col. Raymond Toth  
AEDC Commander

As many of you know, AEDC is in the process of conducting a source selection for the follow-on contract or contracts after ATA's contract expires at the end of September 2015. During our reviews of the various areas we currently contract for, it came to our attention that laws and DOD guidance has changed regarding whether we can use federal money to pay for state law enforcement.

Our legal team, in concert with the AFMC JAG and the Air Force General Counsel's office, determined that the changes in law and guidance indeed do not allow me to expend federal dollars to enforce state laws on Arnold Air Force Base. In turn, this means I cannot direct our prime contractor to perform that function.

After consultations with our legal team and higher headquarters, I directed Aerospace Testing Alliance to stop enforcement of state law on June 28. In fact, this

change aligns AEDC more closely with every other Air Force base in the country. Our civilian and military police also do not have the authority to enforce state law on the publicly accessible portions of any military installation.

I want to make explicitly clear though that this decision has nothing to do with the professionalism or capability of the individual police officers of the Arnold Police force. These men and women are a highly trained, highly qualified, dedicated and professional group who protect our lives, data and facilities every single hour of every single day; and their professionalism has never wavered.

Our gates are just as secure as they were on 27 June. Our officers are still stopping people who violate laws on our public roads. We are still responding to wrecks and we are still vetting visitors.

The methods our police force employ to accomplish their mission have changed, but under my



Col. Raymond Toth

inherent federal authority AEDC is just as safe and secure today as it was last month – because the men and women of the Arnold Police force would have it no other way.

We have met with leaders of our local law enforcement agencies and they are as committed as we are to protect life and property and ensure good order at Arnold Air Force Base.

We will continue to enforce regulations, policy, formal guidance and federal laws, which often overlap with state and local laws. Enforcement of state and local laws will only change in the way our police force resolve each situation in partnership with local authorities.

As we move forward, the way we enforce safety and security at Arnold may need to change to bring us in line with current federal laws which govern the Department of Defense. Those decisions will be tempered with input from higher headquarters, local law enforcement officials and most importantly, the men and women of the Arnold Police force.

I know there are many rumors floating around – I talk to the Arnold Police daily and have met with every shift. Here's what I know – while the future look of our security forces has not been determined yet, I can assure you Arnold Air Force Base will be safe and secure.

# AEDC legal office offers help on understanding the probate process

Commentary by Frank Turner  
AEDC Judge Advocate  
Contributing Writer



Turner

A large part of our legal assistance practice involves preparing wills and related documents for our clients. It's important to have a will, but what happens when an estate goes to probate? Here are a few questions and answers to help you understand the process.

### Q: What is probate?

A: Probate is the court-supervised legal process that determines the validity of your will, if you have one, and gathers and distributes your assets to those designated as beneficiaries in the will. If you die without a will, it is the process for distributing your assets according to the State intestacy statute. The term probate is also used in the larger sense of probating your estate.

### Q: Who is responsible for probate?

A: The executor or personal representative named in the will is in charge of this process, and probate provides an orderly method for administration of the estate. The executor is held accountable by the beneficiaries and sometimes is supervised formally by a probate court. The executor is entitled to a reasonable fee or commission. Most state probate laws encourage or provide for partial distribution during the period of administration and assets may generally be distributed in kind rather than sold during this time.

The tax laws generally focus the responsibility for death tax filings and payments on the executor under a will. Thus, the choice of an executor is an important one. Questions to ask yourself when selecting an executor include: is the executor responsible, is the executor trustworthy, is the executor capable, does the executor play well with others, and is the executor nearby or conveniently located (i.e., is the executor near the state/county where probate will take place)?

### Q: How does probate work?

A: Your assets are collected and applied to pay debts, taxes, and the expenses of estate administration. The remaining assets are then distributed to beneficiaries. Probate assets include those owned in your name and that are not transferred to another at death by contract or operation of law. Non-probate assets include life insurance payable to another, pensions and IRAs payable to another, accounts payable on death to another and any property owned with another with survivorship rights. Depending on your state's laws, property owned by spouses as community property may or may not

be subject to probate. Even if an asset is not subject to probate it still may be taxable under estate tax law.

### Q: What happens in probate?

A: Legal title of property you own individually transfers to your beneficiaries. If you die with a will, the probate process will establish the validity of your will under state law and distribute your property covered by your will in accordance with its terms and conditions. In some states the probate process is streamlined for estates under certain dollar limits. In Tennessee, a small estate procedure is available for estates having under \$25,000 of personal assets.

On the other hand, if you die without a will (intestate), the probate court appoints an administrator to receive claims against your estate, pay creditors, and distribute all remaining property in accordance with the laws of the state. Because you have no will, your property must go through "probate" for legal title to transfer to your heirs at law. The law of the state of your legal residence defines your heirs at law. In Tennessee, if you die without a will and are survived by a spouse and children, then they will share in the distribution of your estate.

### Q: How does probate start?

A: If you die with a will, probate usually begins by your executor filing a petition to administer your will. An executor is the person you named in your will

and the executor's job is to protect your property until all the debts and taxes have been paid and then ensure the remaining property is transferred to your beneficiaries. An executor has a special duty to act with the highest degree of honesty, impartiality and diligence.

### Q: How may I find my state's probate information?

A: Many probate courts are part of county governments and many counties have their own websites that include probate information. You can contact your county's probate court or ask your attorney for information on your state's probate laws and regulations.

### Q: I've heard I should avoid probate at all costs, should I?

A: Some states have more complicated and expensive probate processes than others. The complexity of the probate procedures of the state you live in is an important factor in deciding whether to use probate avoidance techniques.

Probate is generally a matter of public record, and a will admitted to probate is open to public inspection. Therefore, if privacy is a concern, you may want to avoid probate. Many states have streamlined procedures for small estate administration. Depending upon the laws and procedures of the state in which you live, and the circumstances of your particular estate, the probate process may or may not be an expensive, time-consuming process. In Tennessee, probate attorney fees are usually charged on an hourly fee rate. In some states, attorney fees are calculated based upon a percentage of the estate. Determining whether probate avoidance is appropriate for a particular estate can involve complex legal issues. To determine whether probate avoidance is appropriate for your estate, you should consult a qualified attorney to review your particular circumstances.

If you are entitled to legal assistance, contact the AEDC legal office at 454-7814 for further assistance.

## Action Line

### Team AEDC

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

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

Col. Raymond Toth  
AEDC Commander

## Smoking Policy

1. The following revised AEDC smoking policy is effective immediately. Smoking is permitted solely in designated areas identified by a plastic "smoke genie." This receptacle is for the sole purpose of cigarette butt disposal. If there is no receptacle, you cannot smoke 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. In case of inclement or cold weather, employees are encouraged to use their personal vehicles if a sheltered designated smoking area is not available nearby. Smoking areas will be held to the absolute minimum and will be located in low traffic, low visibility areas away from points of building ingress/egress and air intakes. A map of all authorized smoking areas is available on the AEDC web portal at [https://es.eis.afmc.af.mil/sites/cio/IM/Pubs/AEDC/Pubs%20and%20Forms/AEDC%20Publications/Smoking\\_area\\_map.pdf](https://es.eis.afmc.af.mil/sites/cio/IM/Pubs/AEDC/Pubs%20and%20Forms/AEDC%20Publications/Smoking_area_map.pdf). Smoking near a facility in an area not designated on the map is prohibited and any smoking receptacles located in areas not shown on the map will be removed. All "smoking permitted" and "no smoking" signs will be removed unless specifically required by OSHA.

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

Regarding use of smokeless tobacco, 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. Smokeless is strictly prohibited in conference room meetings and other areas, e.g. PMEL, where Air Force regulations specifically prohibit.

Due to the nature, appearance, and safety concerns of electronic cigarettes (also known as "e-cigs"), they are considered to be in the same category of tobacco products whose use is governed by Air Force Instruction (AFI) 40-102, Tobacco Use in the Air Force. Therefore, all rules stated above for tobacco products apply to electronic cigarettes.

- 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 letter supersedes previous letter dated 28 October 2006, subject as above.

# Project Management Institute hosts dinner

By Daniel Flanigan  
AEDC Contributing Writer

Dr. James T. Brown, president of SEBA® Solutions, Inc., will be speaking for the Southern Middle Tennessee Branch of the Chattanooga Project Management

Institute (PMI) Chapter Aug. 15 at UTISI's waterfront restaurant, The View.

Dr. Brown is a registered education provider for PMI and has provided project management training for many companies nationally and

internationally. He has 16 years of NASA experience which includes hands-on experience as a team member and project manager and serving in executive level organizational leadership roles.

Dr. Brown has served as a subject matter expert for

a leading project software vendor and is the author of *The Handbook of Program Management* published by McGraw-Hill. He also provides project management training online and has been published in numerous project management publications includ-

ing PM Network, PE Magazine, PMI Community Post, Projects@Work, The Systems Thinker and PM World Today.

The program will begin with dinner at 5:45 p.m. Reservations may be made by contacting Peggy Glass at 454-7475,

JonPaul Wallace, 454-4904 or Doug Brown at 454-5407, before Aug. 9. The cost for each person is \$20 in advance. Checks may be mailed and postmarked by Aug. 7 to Peggy Glass, 58 Greenbriar Circle, Manchester, Tenn. 37355.

## Give someone a 'summer of stories' through blood donations

By Raquel March  
ATA Public Affairs

The American Red Cross encourages AEDC personnel to donate blood Aug. 12-16 with the Red Cross Bus and give someone a chance to tell their summer stories.

Giving blood can extend someone's life, therefore giving them a chance to experience summer events like watching fireworks, having a picnic or rooting for the home team.

The Red Cross Bus is a mobile blood collection lab that will move to a different location each day while stationed at AEDC. Employees may donate at any of the five locations during work hours, 11 a.m. – 3 p.m., with approval of the supervisor.

The dates and corresponding locations are: Aug. 12 – the Engine Test Facility office building 877; Aug. 13 – the Propulsion Wind Tunnel office building 740; Aug. 14 – the Administration and Engineering building 100; Aug. 15 – the Carroll building 1103; and Aug. 16 – the Main Auditorium building 452.

Most healthy individuals who are at least 17 years of age and weigh a minimum of 110 pounds are eligible to donate blood. Individuals 18 years of age or younger must also meet specific height and weight requirements.

The donation process, from the time you arrive until the time you leave, takes about one hour. The donation itself is only about eight to ten minutes on average. After the donation, continue to hydrate and try not to exert yourself too much for the rest of the day.

The Tennessee Valley Blood Services Region serves nearly 60 hospitals and must have approximately 600 people donate blood or platelets each weekday to meet the needs of hospital patients.

To donate blood at other locations see [www.redcrossblood.org/make-donation](http://www.redcrossblood.org/make-donation).

To watch a video on the donation process, see [http://www.youtube.com/watch?v=SKvcwYpLesI&feature=player\\_embedded](http://www.youtube.com/watch?v=SKvcwYpLesI&feature=player_embedded).

For more AEDC blood donation guidelines and information, contact Leslie Myers at 454-5387.

## Getting ready for your donation

- Hydrate – Be sure to drink plenty of fluids on the day of your donation.
- Wear Something Comfortable – Wear clothing with sleeves that can easily be rolled up above the elbow.
- Maintain a Healthy Level of Iron in Your Diet Before Donating – If possible, include iron-rich foods in your diet, especially in the weeks before your donation.
- Bring a List of Medications You Are Taking – The Red Cross will need to know about any prescription and /or over the counter medications that may be in your system.
- Bring an ID – Bring either your donor card, driver's license or two other forms of identification.

## ACC and Bowling hosts job fair



Twenty exhibitors had the chance to talk with about 150 people seeking work during a job assistance fair sponsored by Arnold Community Council and Tennessee Senator Bowling. (Photos by Jacqueline Cowan)

### JOB FAIR from page 1

Pearson, state officials (Clay Banks and Gary Morgan) and the entire ACC Leadership Team; many of these people met every two weeks to plan the event.

It was the first time the ACC had partnered to conduct a job fair and exhibitors like those from Fluor Government Group were impressed.

"We were very pleased with the candidates we met at the job fair," said Julie Doering, Fluor Government Group marketing manager. "We found a few individuals who may be able to fill some niche spots for us, and we were able to introduce Fluor to a lot of people who weren't familiar with us before the fair. On all counts, it was a great event."

Officials from the state of Tennessee and Motlow State Commu-

nity College also held classes about interviewing skills, resume preparation, etc., and assisted applicants one-on-one in building resumes. Ascend Federal Credit Union also taught budgeting classes.

"Many of our job seekers thanked us for hosting the job fair and those that attended the classes said they were very informative," said Susie McEacharn, executive director of the Manchester Area Chamber of Commerce, who staffed the registration table.

AEDC's Commander, Col. Raymond Toth was very pleased at the turnout and the organization of the event.

"I'd like to thank the Arnold Community Council and Senator Bowling for their dedication to not only the men and women of AEDC, but to the surrounding

communities. The support from the state and the vendors at the fair was truly amazing and they deserve thanks also. Although this event was originally designed to help those AEDC employees who were going through difficult times, I'm so glad it morphed into something that really helped the broader communities. I'd also like to acknowledge and especially thank the volunteers who gave so much of their time over the last few months putting this event together; their hard work really paid off for the attendees."

Arnold Community Council was formed in 2000 to support and promote AEDC. The group helps sponsor a variety of base events, including the Veterans Picnic, AEDC Annual Awards, AEDC Christmas Party and many others.

## ATA Employee and Community Activities Committee call for nominations

By Raquel March  
ATA Public Affairs

The ATA Employee and Community Activities Committee (E&CAC) is requesting that new committee member nominations be submitted by Aug. 9. Elections for six new

members will be held mid-August.

Nominations may be submitted by email to committee member Christy Brunner, Shewanda McCord, Vivian Seals or Patricia Reynolds.

The E&CAC provides

a way for the ATA workforce to demonstrate its commitment, sincere interest and concern for the general welfare of all ATA employees and the surrounding communities.

The E&CAC is divided into five subcom-

mittees which are social, civic, athletic, education and angel tree. The social committee is responsible for planning and sponsoring social events for ATA employees such as the ATA Christmas Social. The angel tree committee

is responsible for planning and organizing employee donations.

The civic, athletic and education committees are responsible for evaluating donation or activity requests and presenting recommendations to the committee.

E&CAC members must be regular full-time employees and will serve a three-year term. The committee meets once a month and members are expected to attend at least seven meetings throughout the year between Oct. and July.

### STEM from page 1

community, including sponsorship of the only all-female high school TARC (Team America Rocket Challenge) Team that competed in the National Competition.

Bunch said of STEM's accomplishment, "It is good to see pro-

grams inspiring both young ladies and young men. Getting youth engaged in what we are doing in these technical fields is critical to our future as a nation."

Bunch said he was pleased to learn that AEDC's STEM Pro-

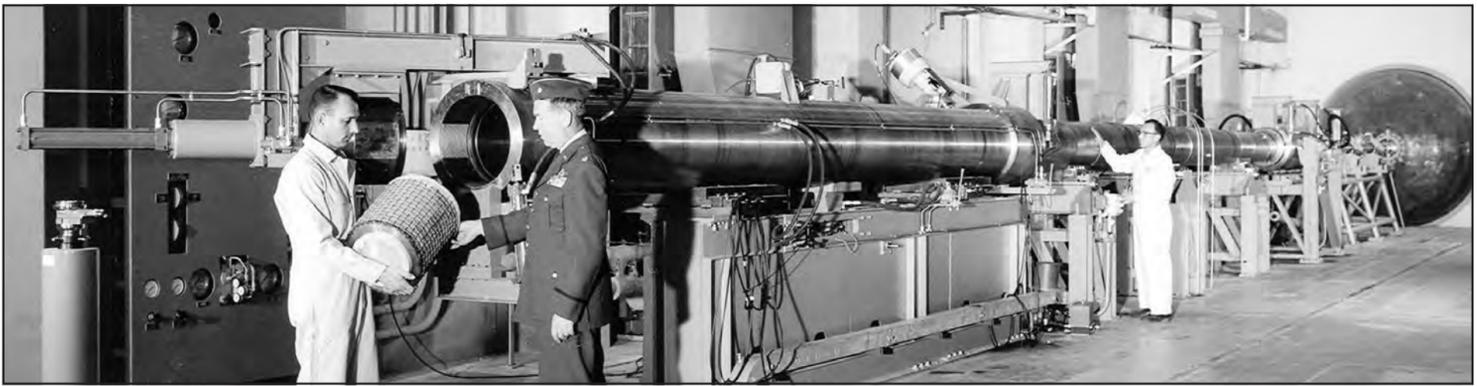
gram covers 30 schools and encompasses about 5600 students. "Promoting the innovative spirit that has powered many of the discoveries we have today is a key component to our nation's success," he said.

When asked why it is important to fund STEM efforts like the one at AEDC, Bunch replied, "STEM and developing young engineers and scientists is critical to our future. As a leader, our job is to set a legacy

behind us and help the youth of America be ready to take our place."

To learn more about AEDC's STEM Program go to <http://www.arnold.af.mil/STEM/> or call Jere Matty at 454-7086.

# AEDC's Range-G in operation for 50 years



**AEROBALLISTIC LAUNCH PREPARATION**-Final step is the insertion of powder charge into breech launcher. In sequence, powder compresses hydrogen, hydrogen drives piston, piston compresses hydrogen in pump tube which accelerates model to desired velocity. The free-flight models will be fired through the 1,000-foot range at velocities up to and exceeding Mach 20. The test unit, 1,000-ft Hypervelocity Range-G, is part of the von Karman Gas Dynamics Facility at AEDC. (1963 AEDC Photo)



David Brown and Troy Perry installed a slug projectile with a pitch motor into the 8-inch bore diameter barrel of AEDC's Range-G two-stage, light gas gun at a velocity of 8,200 feet per second. (Photo by David Housch)

**By Raquel March**  
ATA Public Affairs

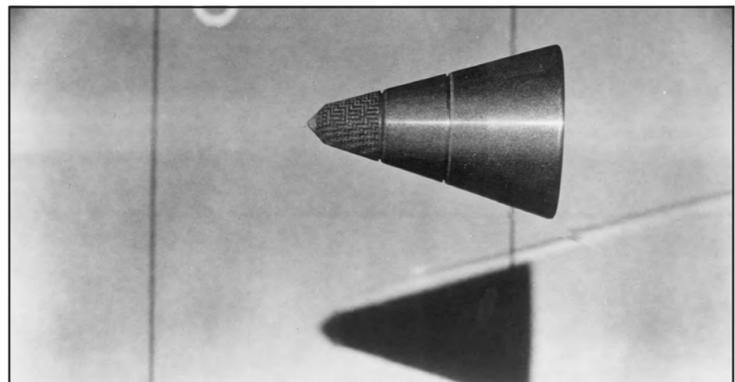
Since the summer of 1963, when AEDC's Hypervelocity Ballistic Range-G came into operation, the facility has tested items for boundary-layer

studies to hypersonic plasma mitigation studies.

The range is used to conduct kinetic energy lethality and impact phenomenology tests. It is the largest two-stage, light-gas gun system in the U.S. that provides "soft

launch", minimized acceleration loading, capability to launch extremely high-fidelity missile simulation at hypervelocity speeds.

Range-G is capable of launching projectiles at velocities up to 23,000 feet per second. Projectiles up



**LASER-ILLUMINATED PHOTOGRAPHY** was developed at the Arnold Engineering Development Complex to study ablative effects on a 12,000 mph free-flight projectile in the Complex's 1,000-foot hypervelocity ballistic range. The technique provided a photographic exposure equivalent to 20 billionths of a second. (1970 AEDC Photo)

to eight inches in diameter are launched into a 10-foot diameter, 930-foot long instrumented tank that can be maintained at pressure altitudes from sea level to 225,000 feet.

The use of 3-D finite-element analysis software

ABAQUS coupled with the AEDC light-gas gun code provides a seamless projectile design capability.

The unique ability to duplicate real flight, although at subscale, makes it the ideal facility for a

variety of testing requirements such as, aerodynamic, aerothermal heating assessments, wake physics and material phenomenology.

(Information compiled from the AEDC Test Facility Guide)

## Quality Assurance: Maintenance commander's "eyes and ears"

**By Senior Airman Benjamin Stratton**  
379<sup>th</sup> Air Expeditionary Wing Public Affairs

**SOUTHWEST ASIA (AFNS)** – To ensure the safety of pilots and ground crews, aircraft maintainers are held to a high standard of proficiency and job knowledge in fulfilling their mission requirements.

Their skills are monitored and inspected regularly by some of the career field's most knowledgeable maintainers.

"We cultivate a foundation of safety and compliance by providing leadership and subject matter experts an assessment detailing the proficiency and quality of maintenance personnel," said Master Sgt. Christopher Wilson, the 379th Expeditionary Maintenance Group's quality assurance chief inspector.

With 14 inspectors from

12 bases across five major commands, the quality assurance teams are responsible for training and inspecting the more than 1,100 maintainers on five different airframes.

QA evaluates the quality of maintenance accomplished and performs necessary functions to manage the wing and group's Maintenance Standardization Evaluation Program, Wilson said. The MSEP provides an objective sampling of the quality of equipment, the proficiency of maintenance personnel, and the compliance of lead command and unit MSEP focus areas, programs and processes.

"Maintenance is dynamic here," Wilson said. "With so many Airmen coming from so many different organizations and major commands, it's truly a testament to the effectiveness of the total-force integration concept."

He said QA manages four main programs for the wing. These include technical order distribution for all the maintenance units across the wing, production improvement management, the maintenance standardization and evaluation program, and the wing foreign object damage and dropped object prevention programs.

The 379th EMXG's QA shop is responsible for maintenance Airmen here along with others across five forward operating locations in the U.S. Central Command's area of responsibility.

"As updates to technical orders come down from the major command and higher headquarters, we work with every joint task force agency across the AOR to get them the TOs they need to complete their missions," said Master Sgt. Kevin Nolan, the 379th EMXG QA production improvement manager.

QA serves as the primary technical advisory agency in the maintenance organization, assisting maintenance supervision at all levels to resolve quality problems. The evaluation and analysis of deficiencies and problem areas are key functions of QA that highlight and identify underlying causes of poor quality in the maintenance production effort.

The team's inspections in the maintenance shops allow production improvement managers to develop trend analysis reports that evaluate deficiencies and malfunctions within the job or processes.

"These reports allow us to analyze what caused the malfunction and figure out how to fix it for the future," Nolan said. "By finding these errors we're able to save the Air Force money."

As the inside experts working in the field, it's



**B-1B Lancer crew chiefs from the 34th Aircraft Maintenance Unit work to fix a blown tire as the sun heats up the tarmac July 15, at the 379th Air Expeditionary Wing in Southwest Asia. As these crew chiefs repair the blown tire Staff Sgt. Daniel Sanney ensures the work is completed following safety guidelines. Sanney is a 379th Expeditionary Maintenance Group B-1 quality assurance inspector. (U.S. Air Force photo/Senior Airman Benjamin Stratton)**

also QA's responsibility to brief the 379th EMXG commander.

"We're the maintenance group commander's eyes and ears across ev-

ery maintenance facility on base," Wilson said.

"We make sure the 379th EMXG are the best and proudest professionals in the Grand Slam Wing."



# AF chief scientist addresses future

By Staff Sgt. David Salantri  
Secretary of the AF Public Affairs

**WASHINGTON (AFNS)** – The Air Force chief scientist addressed members of the Air Force Association about the Global Horizons study, which looks into the near and long-term application of science and technology in the force.

Dr. Mica Endsley, who was recently appointed as the 34th Air Force chief scientist, focused her talk around the future of air, space, cyber, and command and control.

“If we presume the future is going to look like today, I think we’re going to be sorely mistaken,” Endsley said. “The future environment in the next decade has some really significant potential threats that we need to be aware of and thinking of.” In the space environment, Endsley emphasized, the Air Force is not going to be the only player in the future.

“In space, we’re not

going to be operating with impunity,” Endsley said. “It’s going to be a much more congested, competitive and contested environment.”

Speaking about air operations, Endsley noted that though the Air Force has enjoyed air superiority in recent operations, this may not always be the case as other nations use science and technology to continually develop their air forces.

“In air operations, I think over the past few decades, we’ve enjoyed pretty good air superiority in a lot of the theaters we operated in -- that’s not necessarily going to be the case in the future,” she said.

Endsley also suggested the potential for an attack on command and control capabilities.

“We believe our command and control and (intelligence, surveillance and reconnaissance) operations are going to be targeted,” she said. “That’s something we’re going to need to protect against very significantly.”



Dr. Mica Endsley speaks with members of the Air Force Association July 11, in Arlington, Va. Endsley explained her goals and ambitions for science and technology in the Air Force, along with how the service will progress to the future development of systems to support the warfighting Airmen. Endsley is the Chief Scientist of the Air Force. (U.S. Air Force Photo/Senior Airman Carlin Leslie)

Endsley emphasized the importance of protecting cyberspace and Air Force cyber capabilities from threats.

Cyber “is the thing that underlines everything that we’re doing,” Endsley said. “It’s a very significant source of concern in terms of potential vulnerabilities.”

As Endsley spoke, she stressed the importance

of the ever-changing environment in which the Air Force operates in, and how the global horizons study identifies these future changes.

Endsley also made note that a key component of Air Force efforts is to use science and technology to enable Airmen to carry out their duties more efficiently.

“One of our goals here

is to develop technology that enhances the capability of our Airmen,” she said. “My job is to enable our people to do their job effectively.”

As Endsley concluded, a question from the audience brought up the impacts of sequestration, and how it is impacting in the Air Force.

In a field that is primarily comprised of ci-

vilian Airmen, Endsley said that with furloughs starting, a large part of her workforce will be out of the office, missing technical meetings that are vital to her researchers.

Furlough is “having chilling effects,” she said. “If you look at who the researchers are in the Air Force, they are disproportionately civilians.”

# Technicians safeguard fuel and oxygen

By Senior Airman Bahja J. Jones  
379th Air Expeditionary Wing

**SOUTHWEST ASIA (AFNS)** – Aircrew mem-

bers depend on several moving parts to ensure an aircraft is properly maintained and prepped for a safe mission. A part of this preparation is ensuring that the fuel and oxy-

gen within the aircraft are safe and free of contaminants that could negatively affect the mission.

Airmen at the 379th Expeditionary Logistics Readiness Squadron Air Force Petroleum Agency laboratory, or ELRS/AFPA, here have a criti-

cal mission analyzing aircraft fuel and oxygen samples in support of U.S. Central Command missions.

“Our lab is a world-class facility containing more than \$750,000 in equipment, and has the capability to detect trace

amounts of contaminants in fuel and oxygen samples,” said Maj. Joshua Kittle, the 379th ELRS/AFPA chief, deployed from Kirtland Air Force Base, N.M.

Airmen at the fuels lab conduct tests to ensure the fuel and oxygen is clean, which helps flight crews breathe easier. Once the lab obtains the samples, they run a series of tests to check for signs of contamination. For fuels, they run a total of 15 different tests, and for gases, up to eight. The tests take several hours to complete.

One test requires running fuels through a Jet Fuel Thermal Oxidation Tester, or JFTOT. The JFTOT is intended to simulate the pressure and temperature environment experienced by the fuel as it circulates through an aircraft.

“If we see pressure build-up, it’s a sign of contamination,” said Tech. Sgt. Thomas Capaldo, the 379th ELRS/AFPA NCO-in-charge of fuels.

After the samples are analyzed, any test failures are reported to the AFPA technical division

at Wright Patterson Air Force Base, Ohio, where experts interpret the results and provides corrective action back to the Airmen downrange.

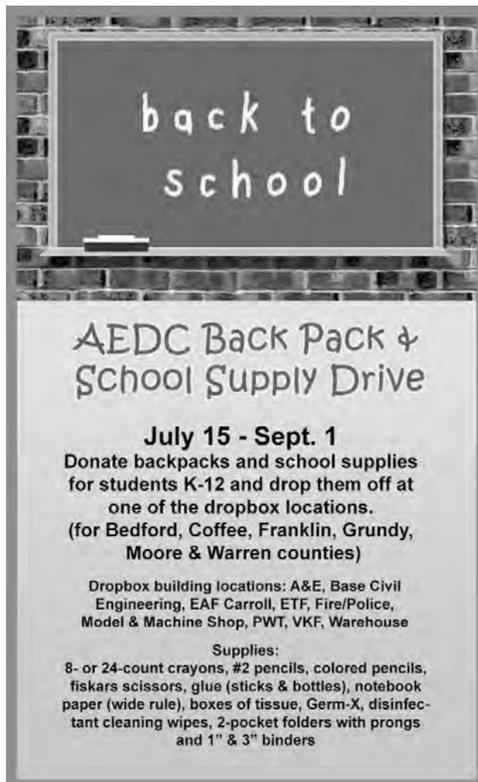
“If we weren’t here, it would take weeks to complete mission-critical tasks,” said Tech. Sgt. Rocky Sasse, the 379th ELRS/AFPA NCO-in-charge of gases. “Each sample we test saves the Air Force time and money.”

Without the 379th ELRS aerospace fuels lab, the process to have fuels tested would take up to four weeks, and delay critical missions within the area of responsibility.

“Fuel can’t be used until the area lab says it’s okay to put in the aircraft,” Kittle said. “If our lab wasn’t in the AOR, it could take weeks for that sample to arrive stateside and get tested. Meanwhile, the aircraft would be burning up the fuel already cleared, resulting in a situation where there is no more cleared fuel.”

This is the first all-military rotation in the fuels laboratory as the AFPA is typically staffed by civilians.

“(The) AFPA mission is new to us ... this rotation has presented us with some unique learning challenges,” Kittle said. “It’s given us a chance to see a different side of the Air Force, and opportunities to bring our experiences to the AFPA mission.”



## F-35 aircrew flight equipment team named Air Force best

By Tech. Sgt. Carl Stenske  
33rd Fighter Wing Public Affairs

**EGLIN AIR FORCE BASE, Fla. (AFNS)** – One of the Air Force's newest aircrew flight equipment teams is now the Air Force's best.

The 33rd Fighter Wing's aircrew flight equipment flight was chosen the best in the Air Force in the small program category for 2012. The wing is the only unit to fly and train on the F-35A Lightning II fifth generation fighter.

"This outstanding feat was accomplished amidst a year of numerous challenges in stand-up operations for the F-35," said Col. Todd Canterbury, the 33rd Fighter Wing commander. "It shows how hard their team worked to be considered the best in the Air Force."

Tech. Sgt. Andre Baskin is the flight's NCOIC, who says that his team's biggest challenge has been the unique aspects of the F-35 program. "There was nothing to base our procedures on," said Baskin. "We had to use our experience with other fighter aircraft to create new procedures."

Baskin said the team worked 30 hours over a three-day period to perform an emergency safety inspection on F-35 aircrew safety equipment, completing the inspection in one-third of the time. He added that, because there was no aircrew flight equipment training courseware, the team had to create its own, earning honors for "best practice," also at the Air Force level.

Tech. Sgt. Amanda Williams is the team's continuation training instructor, responsible for creating the instructions used to perform tasks for the F-35 equipment under review. "Since there's no F-35 training plan on the equipment, she had to develop it from scratch," said Baskin. "Usually a les-



**Airman First Class Sean Gregory conducts a routine pre-flight inspection of the F-35 Lightning II helmet June 24, 2013 at the 33rd Fighter Wing, Eglin AFB, Fla. As an apprentice with the Aircrew Flight Equipment flight, 33rd Operations Support Squadron, she is responsible for ensuring the helmet's acting noise reduction and optical system work before a training sortie. (U.S. Air Force photo by Maj. Karen Roganov)**

son plan is created and sent from higher headquarters on down. We had to go from the bottom up on these."

Baskin's team became one of the first within the wing to transition from the F-35 contract team, in this case Lockheed Martin, to complete Air Force oversight, a feat they accomplished a year ahead of schedule. "It was difficult because it was brand new," said Baskin. "If a typical aircrew flight equipment shop needs support with something, they can usually get it from another base. There was no F-35 support other than what we could provide ourselves internally. We had to make sure all our bases were covered."

The team was also asked to support other units as well, assisting 720 F-16 sorties from the 56th Fighter Wing, from Luke Air Force Base, Ariz., deployed to Eg-

lin in support of the F-35 program. Baskin said that having the added support of the F-16s was definitely a challenge for him and his team. "The team had to basically build an F-16 shop from scratch, not only in the process of dealing with the equipment, such as obtaining bench stock and equipment turn-in."

Tech. Sgt. Lemuel Velazquez, one of the team technicians, said that, when the F-35s arrived, it was hard, but rewarding work. "It was difficult because we have guidelines on the legacy aircraft, but most of those could not be applied to the F-35. We had to adapt to the new requirements, but it helped me grow as an NCO. I was able to see how the Air Force works from a different point of view. I now know 200 percent more than I did before."

## Additional F-35s coming to Luke Air Force Base

By Capt. Tristan Hinderliter  
56th Fighter Wing Public Affairs

**LUKE AIR FORCE BASE, Ariz. (AFNS)** – Air Force officials announced June 27 that Luke Air Force Base, Ariz., has been chosen as the location for 72 additional F-35A Lightning IIs, bringing the eventual total number of the fifth-generation fighters expected here to 144.

The Air Force's initial decision to establish an F-35 pilot training center here was announced in August 2012, following a three-year process that included an extensive environmental impact analysis.

"This is great news for Luke AFB and the West Valley community," said Brig. Gen. Mike Roth-

stein, the 56th Fighter Wing commander. "The

decision to base additional F-35 fighters here ensures the long-term viability of our mission and continues our legacy of training the world's greatest fighter pilots."

The F-35A, manufactured by Lockheed Martin, is intended to be the Air Force's premier strike aircraft through the first half of the 21st century. It is a multirole fighter that is expected to eventually phase out the service's F-16 Fighting Falcons and A-10 Thunderbolt IIs.

Aircraft are expected to begin arriving at Luke AFB in spring 2014, although exact timing will depend on production schedules. Construction on base to prepare for the aircraft is currently underway, with about \$10 million of \$57 million in projects already completed.

The 2012 Record of Decision cited several rea-

sons why Luke AFB was the service's top choice for F-35A basing, including facility and ramp capacity, range access, weather and capacity for future growth.

The base, which has been training fighter pilots for more than 70 years, also enjoys tremendous community support.

"We're surrounded by a very supportive community that is the envy of the Air Force," said Rusty Mitchell, the director of Luke's Community Initiatives Team, who has worked with government officials and community stakeholders on behalf of the base for more than a decade. "We can't thank our West Valley neighbors enough for how they've come together in support of our mission."

In addition to training U.S. pilots, Luke will also serve as an F-35A International Partner Training site.



**Arizona Gov. Janice Brewer speaks to reporters about Luke Air Force Base, Ariz., being chosen as the location for 72 additional F-35A Lightning IIs June 27, 2013. The additional aircraft bring the total number of fifth-generation fighters to 144. Aircraft are expected to begin arriving at Luke in spring 2014. (U.S. Air Force photo/Senior Airman David Owsianka)**

# AEDC's Rocket Test Facility going strong after 20 years

By Raquel March  
ATA Public Affairs

The construction for AEDC's Large Rocket Motor Test Facility (J-6) ended July 30, 1993. Today the facility continues to test the nation's large ICBM's such as the Peacekeeper and Minuteman systems and new developmental systems.

Following the signing of official control transfer documents, the facility was presented to the director of facilities in a ceremony that represented seven years of continuous teamwork and dedication which began in 1986. Construction of the facility began in 1990.

In 1989 a \$176 million construction contract was awarded to Ebasco Newberg Construction. The J-6 project met its construction deadline 114 days early and under budget.

"A bright chapter in Arnold's history, a bright chapter in Air Force's history and a bright chapter in our nation's future," said Gen. Ronald Yates at the J-6 ribbon cutting ceremony, then commander of Air Force Materiel Command. "The facility now gives us the capability to safely test advanced high energy solid



The Peacekeeper Stage II ICBM rocket motor is prepared for the first validation motor firing in the J-6 rocket test cell in 1994. (AEDC photo)

propellant rocket motors for use in space."

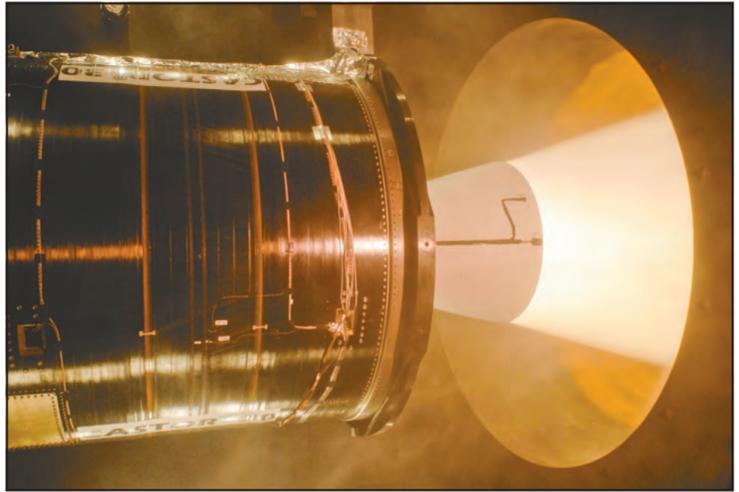
Yates said J-6 will test commercial systems and "ensure taxpayers get the greatest value from their investment while helping American industry main-

tain their leadership in advanced solid rocket technology."

J-6 tests large rocket motors up to 500,000 pounds of thrust and can simulate altitudes up to 100,000 feet.



AEDC's Large Rocket Motor Test Facility J-6. (Photo by Rick Goodfriend)



ATK's CASTOR®30 was ground tested at AEDC in a specialized vacuum chamber that simulates the altitude at which the upper stage motor will operate. (Photo by Rick Goodfriend)

## ENGINEERS from page 1

C-1 test cell typically runs at altitude conditions. However, General Electric's F101 AMT test program is a 10-month duration of sea level testing running 24 hours a day, 4 days a week and requires at least one cell entry per day. This meant that once a day personnel would have to

remove a key from the control room, go outside to lower and lock the hatch closed and then return to the control room with a transfer key to get "air-off." This process would have to be completed in reverse after the cell entry was complete to return the test cell "air-on."

Stiggins, C-2 lead test engineer, said, "The hatch has been an ongoing issue but with the F101 program utilizing the hatch on a daily basis it was time to come up with a solution to the problem." Boss, C-1 lead test engineer, further noted, "We all discussed different ideas but reworking the Kirk Interlock System was the best solution."

Boss, Welch, and Stiggins collaborated on a concept to modify the Kirk Interlock System so the atmospheric hatch can remain open during test cell entries.

Boss, Stiggins and Welch all agree that one aspect they enjoy about their job as C-1 and C-2 test engineers is the va-

riety of the work. Welch, C-1 test engineer, stated, "Part of being a test engineer is that you never know what you might be working on day to day or what issue might come up. The hatch was one of those issues."

Reworking the Kirk Interlock System took approximately three months but resulted in a net savings of \$79,675 to the test customer.

Jeff Henderson, branch manager of test operations, said "In today's environment of sequestration and declining budgets, innovations like this are more important than ever. Controlling costs was crucial to AEDC landing this F101 AMT Project. Figuring out how to make an altitude test cell like C-1 run more like a sea level cell helps lower the test customer's costs, which in turn gets us (AEDC) the test business."

## AEDC Job Shadow Day tour, July 11, 2013

(Photos by Jacqueline Cowan)



## Arnold Honor Guard presents at war veteran ceremony



**By Raquel March**  
ATA Public Affairs

Arnold Air Force Base's Honor Guard recently participated in a ceremony where retired U.S. Air Force Maj. Cecil Smith received the Distinguished Flying Cross medal for a completed 1951 Korean War mission.

"His actions to receive such a high honor were heroic and humbling to say the least," said 1<sup>st</sup> Lt. Joshua Coughenour, an Arnold AFB Honor Guard member.

The event occurred in Smith's East Tennessee hometown and was featured on the NBC broad-

cast affiliate WRCB, Chattanooga.

Lt. Col. Leland Davis, Arnold Engineering Development Complex's (AEDC) Propulsion Wind Tunnel Test Branch director, presented the medal to Smith whose actions earned him the third highest award of valor.

Arnold's Honor Guard provides color guard detail for events and ceremonies throughout the community and state such as official military functions, parades, sporting events, change of command and others.

As a matter of policy, military musical and cer-

emonial units will not be permitted to travel beyond their respective duty station's local area for any purpose, including support to another military installation, even if such travel could be conducted at no cost to DOD. Units may continue to perform locally both on and off military installations.

In addition, Military Funeral Honors Details are exempt from this restriction and will continue to be executed in accordance with Service Department policies.

Call the Honor Guard at 454-7139 or 454-7293 for more information.

Children and Families are in great need of donated food this summer.

Participate in the **Feds feed families** program by donating your non-perishable food items to the local food banks!

**Ends August 31**

Drop boxes located at:  
 A&E building (bldg. 100)  
 Carroll building (bldg. 1103)  
 ETF Test Support building (bldg. 1099)  
 ETF Office building (bldg. 877)  
 Model & Machine Shop (bldg. 451)  
 PWT Office building (bldg. 760)  
 J-Side building (bldg. 880)  
 Commissary



## KC-46 critical design review nearing completion

WASHINGTON (AFNS) – The Air Force and Boeing successfully conducted the KC-46 critical design review, or CDR, from July 8-10 at the Boeing facility in Mukilteo, Wash.

The KC-46 weapon system CDR was the culmination of nine months of component and sub-system design reviews, which blended the best practices of both the commercial and Department of Defense frameworks.

Currently, the CDR still has a few actions to finish, but the process is scheduled to be complete well in advance of the Sept. 24 contractual date.

“The efforts by the combined Boeing and Air Force team to get to this point in the program development have been tremendous,” said Maj. Gen. John Thompson, the program executive officer for tankers. “For the warfighter, completion of this milestone is a big step forward toward beginning the recapitalization of the Air Force’s legacy KC-135 fleet, delivering advanced and improved multi-mission capabilities to the fight on day one.”

Attendees at the meetings included the Government KC-46 Program Office, Boeing, Air Mobility Command, Air Force and Department of Defense test and acquisition leaders, and the Federal Aviation Administration.

Thompson said that the overall design maturity of the tanker is at a high level, grounded in the commercial-derivative nature of the design approach, which is based on the Boeing 767.

Once the CDR is complete, Boeing will proceed into the fabrication, hardware and software integration, and test phase of the KC-46 development program.

The Air Force contracted with Boeing in February 2011 to acquire 179 KC-46 Tankers to begin recapitalizing the



**The KC-46A is intended to replace the United States Air Force’s aging fleet of KC-135 Stratotankers and provides vital air refueling capability for the United States Air Force. (Courtesy Image)**

more than 50-year-old KC-135 fleet. The initial delivery target is for 18 tankers by 2017. Production will then ramp up to deliver all 179 tankers by 2028.

The first fully-equipped KC-46 is projected to fly in early 2015 in support of engineering and manufacturing development activities.

### Features

The KC-46A will be able to refuel any fixed-wing receiver capable aircraft on any mission. This aircraft is equipped with a modernized KC-10 refueling boom integrated with proven fly-by-wire control system and delivering a fuel offload rate required for large aircraft. In addition, the hose

and drogue system adds additional mission capability that is independently operable from the refueling boom system.

Two high-bypass turbofans, mounted under 34-degree swept wings, power the KC-46A to takeoff at gross weights up to 415,000 pounds. Nearly all internal fuel can be pumped through the boom, drogue and wing aerial refueling pods. The centerline drogue and wing aerial refueling pods are used to refuel aircraft fitted with probes. All aircraft will be configured for the installation of a multipoint refueling system.

MPRS configured aircraft will be capable of refueling

two receiver aircraft simultaneously from special “pods” mounted under the wing. One crewmember known as the boom operator controls the boom, centerline drogue, and wing refueling pods during refueling operations. This new tanker utilizes an advanced KC-10 boom, a center mounted drogue and wing aerial refueling pods allowing it to refuel multiple types of receiver aircraft as well as foreign national aircraft on the same mission.

A cargo deck above the refueling system can accommodate a mix load of passengers, patients and cargo. The KC-46A can carry up to 18

463L cargo pallets. Seat tracks and the onboard cargo handling system make it possible to simultaneously carry palletized cargo, seats, and patient support pallets in a variety of combinations. The new tanker aircraft offers significantly increased cargo and aeromedical evacuation capabilities.

The aircrew compartment includes 15 permanent seats for aircrew which includes permanent seating for the aerial refueling operator and an aerial refueling instructor. Panoramic displays giving the ARO wing-tip to wing-tip situational awareness.

*(Courtesy of Secretary of the Air Force Public Affairs)*

# Airman reflects on journey from maintainer to pilot

By Senior Airman Jaimi Upthegrove  
482<sup>nd</sup> Fighter Wing Public Affairs

**HOMESTEAD AIR RESERVE BASE, Fla. (AFNS)** – “I remember the first time I climbed into an F-16 (Fighting Falcon) and the canopy closed,” he said. “I had my mask on, and it was so quiet. I was amazed at how quiet and peaceful it was. At that moment, I knew the cockpit was where I was meant to be.”

To get into that cockpit, Maj. Robin Lytle had to navigate a long path.

Lytle, an F-16 pilot with the 93rd Fighter

Squadron here, was born in Laredo, Texas, and spent the better part of his youth moving around with his military family. His father was a pilot, but initially Lytle had no intentions of becoming a pilot.

However, he did have a calling to follow in his family’s long line of military service, which goes back three generations to his great grandfather. Lytle joined the Air Force Reserve as a weapons loader at Bergstrom Air Force Base, Texas, after he graduated high school in 1989.

#### Life on the flightline

“I spent a day shadowing the weapons loaders

at Bergstrom (AFB) and I knew it was the job for me,” Lytle said. “I just liked watching them load the bombs and move the missiles around. I knew it was a vital job in the Air Force, and I wanted to be a part of it.”

Lytle worked on the flightline at Bergstrom AFB while attending college. For four years he developed his skills.

“I loved taking something that needed repair, fixing it and being able to deliver a finished product to serve the mission,” Lytle said. “I received a great amount of satisfaction from the job.”

See AIRMAN, page 15



Maj. Robin Lytle assists Master Sgt. Carlos Arias, Tech. Sgt. Ricardo Bachelor and Tech. Sgt. Jonathan Edwards with loading a bomb onto an F-16 Fighting Falcon May 17th, 2013, at Homestead Air Reserve Base, Fla. Lytle began his career as a weapons loader in 1989 at Bergstrom Air Force Base, Texas. Lytle is a 93rd Fighter Squadron F-16 pilot and the chief of scheduling, Arias is a weapons loader from the 482nd Aircraft Maintenance Squadron, and Bachelor and Edwards are weapons loaders from the 495th Fighter Group. (U.S. Air Force photo/Senior Airman Jaimi Upthegrove)



## Arnold Golf Course 454-GOLF, 454-FOOD

Check us out on Facebook! Arnold AFB Services Golf Course

### 2013 Tournament Schedule

Aug. 24-25	Club Championship
Sept. 5	AEDC Golf League Awards Banquet
Sept. 19	Thursday Night Scramble Ends
Sept. 21	Member Member Tournament
Oct. 5	Season Ending Tournament

Arnold Golf Course will host two **Family Moonlight Golf** events, Aug. 3 and 24, from 8:30-11 p.m. Moonlight golf consists of playing after the sun goes down and using glow in the dark balls and other glow items to identify the holes, paths, and carts. Cost is \$20 per person or \$10 if you already pay annual fees at Arnold Golf Course. Cost includes green fee, cart, and two glow balls. The format for Aug. 3 will be 9-holes two person select shot scramble. Aug. 24 format will be 9-holes four person select shot scramble. Call 454-GOLF to sign up by the Wednesday prior.

A **Junior Golf Program** is being offered at Arnold Golf Course Aug. 5-9 from 5:30-7 p.m. Monday through Thursday and 5:30-8 p.m. Friday. This program makes learning the game easy and affordable, but most of all, fun. Junior Golf is designed to give children ages 6-17 years old the love of a game they'll play for a lifetime. Junior Golf provides participants with a solid foundation about the game of golf, including swing mechanics, etiquette, terminology, proper behavior, and how to maintain speed of play. For \$99 participants receive eight hours of small group instruction to include on the course experience. Equipment is provided for the class or participants may bring their own clubs. The Junior Golf Program provides a relaxed learning atmosphere without the intimidation factor, with emphasis on having fun. Deadline to sign up for this program is July 31. Parents of participants will receive a 15% off coupon for Arnold Lakeside Center (ALC) for Thursday and Friday night (Aug. 8-9). The ALC is open for dinner 5-8 p.m. Thursday and 5-9 p.m. Friday. For information on Arnold Lakeside Center or to place advance or to go orders call 454-3350. For more information about the Junior Golf Program and to sign up call 454-GOLF.

Arnold Golf Course will host the **Club Championship** for annual green fee players only Aug. 24 and 25 with an 8 a.m. shotgun start both days. Play will be individual stroke for 36 holes. Entry fee is \$40 and includes lunch on Sunday. Cart is not included. Sign up in the Pro Shop by Aug. 17.

## Arnold Lakeside Center 454-3350

Check us out on Facebook! Arnold AFB Services Arnold Lakeside Center and Arnold AFB Services Information, Tickets and Travel

If you haven't been to Arnold Lakeside Center lately then we invite you

to stop by and try our **new menu**. There are a lot of new items with something to please everyone. From bruschetta to chicken and waffles to fish tacos and chicken lettuce wraps. There are even specialty burgers and chicken pot pie. Pizzas are still available in a variety of selections. The dining room is open Thursday from 5-8 p.m. during free movie night and open Friday and Saturday from 5-9 p.m. Call ahead, 454-3350, for advance or to go orders. In August, every Friday will feature a different menu item:

Aug. 2: Margerhita Pizza – House Special - tomato, fresh mozzarella, basil and garlic infused olive oil  
Aug. 9: Strawberry, Bacon and Blue Cheese Salad – spring mix, strawberries, bacon, blue cheese, walnuts and blush wine vinaigrette  
Aug. 16: Memphis Burger – 5 oz. hand formed fresh ground beef patty featuring bacon, slaw and tangy barbecue sauce  
Aug. 23: Apple and Goat Cheese Salad – spring mix, green apple, goat cheese, walnuts, grapes and lemon balsamic vinaigrette  
Aug. 30: Chicken and Waffles – three chicken tenders atop two Belgian waffles drizzled with maple syrup

### Movie Schedule

Movie nights are Thursdays with movie start time of 6:30 p.m. and dinner available from 5-8 p.m.

**Aug. 1** – “Jurassic Park,” rated PG-13 (2 hr. 7 min.) starring Sam Neill, Laura Dern and Jeff Goldblum.

During a preview tour, a theme park suffers a major power breakdown that allows its cloned dinosaur exhibits to run amok.

**Aug. 8** – “The Host,” rated PG-13 (2 hr. 5 min.) starring Saoirse Ronan, Diane Kruger and Max Irons.

When an unseen enemy threatens mankind by taking over their bodies and erasing their memories, Melanie will risk everything to protect the people she cares most about, proving that love can conquer all in a dangerous new world.

**Aug. 15** – “42,” rated PG-13 (2 hr. 8 min.) starring Chadwick Boseman, Harrison Ford, and Nicole Beharie.

The life story of Jackie Robinson and his history-making signing with the Brooklyn Dodgers under the guidance of team executive Branch Rickey.

**Aug. 22** – “After Earth,” rated PG-13 (1 hr. 40 min.) starring Jaden Smith, Will Smith and Sophie Okonedo.

A crash landing leaves Kitai Raige and his father Cypher stranded on Earth, a millennium after events forced humanity's escape. With Cypher injured, Kitai must embark on a perilous journey to signal for help.

**Aug. 29** – “Epic,” rated PG (1 hr. 42 min.) starring voices of Colin Farrell, Josh Hutcherson, and Beyonce Knowles.

A teenager finds herself transported to a deep forest setting where a battle between the forces of good and evil is taking place. She bands together with a rag-tag group of characters in order to save their world - and ours.

**First Friday Jam** will be held 6 p.m. Aug. 2. Come to play, listen, dance and enjoy. Join in with the band to play an instrument or sing. Or take over and

do your own performance. Dinner is available from 5-8 p.m.

Arnold Lakeside Center will host **Family Fun Daze** Aug. 3 and 31 for members, their families and guests only. Both events will be held from 10 a.m. to 2 p.m. for free as a member benefit. The events will include a kids' buffet which includes chicken tenders, macaroni and cheese, pizza, tater tots, jello, and pudding. The adults' buffet will include salad, fried chicken, barbecue, cole slaw, green beans, vegetable medley, and rolls with butter. Entertainment will include a bouncy castle, face painting, coloring, balloons, door prizes and a special magician performance from 12-1 p.m.

Arnold Lakeside Center's **Singles 8-Ball Pool Tournament** continues in The Landing for ages 18 and older. The tournament is double elimination played by United States Professional Pool players Association rules from 6-9 p.m. Regular tournament games will continue Aug. 3 and 31. Seeding in the regular tournaments will be by random draw. There will be a continuing points system with the point totals going toward the final seeding in the championship tournament. Points will be as follows: 1<sup>st</sup> place – 8 points, 2<sup>nd</sup> place – 7 points, 3<sup>rd</sup> – 6 points, 4<sup>th</sup> – 5 points, 5<sup>th</sup> – 4 points, 6<sup>th</sup> – 3 points, 7<sup>th</sup> – 2 points and 8<sup>th</sup> – 1 point. All players will be allowed to play in the championship tournament. Players are not required to be at every tournament. The championship games will be played Sept. 7. Players may bring their own pool cues. Regular games first and second place winners will receive Services Bucks. The championship winner will receive a new pool cue.

Welcome back Pretty Discoveries for a **jewelry fair** Aug. 9 in Café 100 from 8 a.m. to 2 p.m. All jewelry prices are below \$20 and there may be other merchandise available. The next jewelry fair is scheduled for Nov. 15.

**Brushes and Bottles** will be held 6-8 p.m. at the GLC Aug. 9. Bring your favorite beverage and get ready to get creative as an instructor will lead you through a canvas painting work of art step-by-step. By the end of the evening you will have your own masterpiece to take home. A different design will be done each month. These painting parties are for all skill levels ages 21 and over with a cost of only \$25 per person. All paint, brushes, aprons, easels, canvas and other necessary materials will be provided. All you have to bring is your beverage of choice. Light snacks will be provided and other beverages will be available for purchase. Deadline to sign up for this event is Aug. 6. Class size is a maximum of fifteen. Call 454-3350 to sign up or for more information.

Arnold Lakeside Center will host a **Members Only Texas Hold 'Em Tournament** every Saturday beginning Aug. 17 through Oct. 12, excluding Sept. 21 due to special function. Play will begin at 6 p.m. in The Landing bar. There is no cost to enter but all players must be age

## Hours of operation

**Arnold Lakeside Center:** Catering/Management offices by appointment. Operations Clerk Monday through Friday 7:30 a.m. – 4 p.m. Dinner: full menu available Thursday 5-8 p.m., Friday and Saturday 5-9 p.m.; Main Bar Thursday 5-8 p.m., Friday 4-10 p.m. and Saturday 5-9 p.m.; Social Hour Friday 4-6 p.m., Movie Night Thursday 6:30 p.m.

**Information, Tickets & Travel (ITT):** Tuesday through Friday 10 a.m. – 3 p.m.

**Café 100:** Monday through Friday 6:30 a.m. – 1 p.m.

**Barber Shop:** by appointment – Monday, Tuesday, Thursday & Friday 8 a.m. – 4 p.m.

**GLC (office located at Arnold Lakeside Center):** Monday through Friday 7:30 a.m. – 4 p.m. May vary depending on bookings.

**Outdoor Rec:** Tuesday through Sunday 8 a.m. – 6 p.m. FamCamp Store Friday through Sunday 12-4 p.m. Also open Monday when in conjunction with a holiday weekend.

**Fitness Center:** Monday-Friday 5 a.m.-7:30p.m.; Saturday 8 a.m.-1 p.m.; Sunday Closed.

**Arnold Golf Course:** Pro Shop & Driving Range 7 a.m. – 7:30 p.m. Closed during inclement weather. Driving Range open 24 hours with pre-purchased key card. Mulligan's Coffee Bar & Grill Monday through Friday 10:30 a.m. – 2 p.m., Saturday and Sunday 7 a.m. – 2 p.m.

**Recycling:** Monday through Friday 6 a.m. – 2:30 p.m.

**Wingo Inn:** Monday through Friday 7 a.m. – 6 p.m., Saturday and Sunday 8 a.m. – 4 p.m.

**Nonappropriated Funds Human Resources:** Monday through Friday 7:30 a.m. – 4 p.m.

18 or older. Players will be divided evenly among tables in random draw placement each week. The number of tables will be determined by the number of participants each week. Tables will be responsible for the deal at each table. A dedicated dealer will be provided for the championship table. As players are eliminated, the number of remaining players will be redistributed throughout the night to make as many even-number tables of players per game until the final eight. Placement points will be determined by finishing ranking each week once the player pool gets down to the final eight players of the night. Players eliminated before final eight will not receive points. Point placement is as follows: eighth place: 1 point, seventh place: 2 points, sixth place: 3 points, fifth place: 4 points, fourth place: 5 points, third place: 6 points, second place: 7 points, first place: 8 points. A running seven-week tally of total weekly points will determine the ranking order to decide who plays

in the final championship round. The Championship Table will be made up of the top 8 players plus any ties from the seven-week standings. Winning a single week does not guarantee a seat at the Championship Table. Seats are decided by point ranking only. Play will be single elimination. Prizes will be given to top two winners each week. Grand prizes will be given to the top three finishers in the championship. There will also be a perfect attendance finals table for anyone who did not get into the championship table but attended each of the seven week events. Prizes will be awarded to the top three finishers at the perfect attendance finals. Dinner is available every Saturday from 5-9 p.m.

Arnold Lakeside Center **Dart Tournament** continues in The Landing consisting of 301 and Cricket ending Oct. 18 with a championship finale. There will be two single elimination tournaments from 6-9 p.m. each night – Aug. 23 and Sept. 20 – following

American Darts Organization rules. Players may enter both the 301 and Cricket tournaments. There will be a continuing points system with point totals going toward the final seeding for the championship tournament to be held Oct. 18. Points will be as follows: 1<sup>st</sup> place – 8 points, 2<sup>nd</sup> place – 7 points, 3<sup>rd</sup> – 6 points, 4<sup>th</sup> – 5 points, 5<sup>th</sup> – 4 points, 6<sup>th</sup> – 3 points, 7<sup>th</sup> – 2 points and 8<sup>th</sup> – 1 point. Services Bucks will be awarded to 1<sup>st</sup> and 2<sup>nd</sup> place finishers in each monthly tournament. The championship winners will receive a set of darts. If the same person wins both championships then the two second place finishers will have a play-off to determine the other champion. This event is for ages 18 and up. Darts will be provided or players may bring their own ADO regulations darts.

The ever-popular **Casino Night** returns to Arnold Lakeside Center Aug. 24 for ages 18 and older. Gaming will be from 7-10 p.m. and includes craps, roulette,

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# B-1 test squadron demonstrates anti-ship missile

By Senior Airman  
Charles V. Rivezzo  
7th Bomb Wing Public  
Affairs

**DYESS AIR FORCE BASE, Texas** – The 337th Test and Evaluation Squadron recently successfully completed their first captive carry test of a Long Range Anti-Ship Missile on-board a B-1 Bomber, marking a significant step forward toward the B-1's role in the maritime environment.

Designed and developed by the Defense Advanced Research Projects Agency and the Office of Naval Research, the LRASM is based off the Joint Air to Surface Standoff Missile Extended Range and was constructed as part of an effort to overcome challenges faced by current anti-ship missiles penetrating sophisticated enemy air defense systems.

"This is a big stepping stone toward fielding an anti-surface warfare cruise missile," said Maj. Shane Garner, 337th TES. "However, at the end of this program, this particular missile is not going to be a fielded weapon; it's what we call a technology demonstrator. The point of this program isn't to field a missile, but to demonstrate the new technologies they want to put

into an anti-surface warfare JASSM variant."

Because the LRASM leverages the state-of-the-art JASSM-ER airframe, it proved to be a seamless transition for the B-1 in terms of compatibility, significantly reducing the time and costs associated with traditional weapons testing.

"When the B-1 looks at this missile it just reads it as a JASSM-ER," said Capt. Alicia Datzman, 337th TES. "In turn, DARPA was able to exploit that capability and simply add on the new technology to expedite the cost. Currently, JASSM officials are doing everything they can to take this missile's technology and move it into a program that would eventually become operational."

However, while the LRASM does utilize the airframe of the JASSM-ER, it incorporates additional sensors and systems to achieve a stealthy and survivable subsonic cruise missile as well as a weapon data link and an enhanced digital anti-jam GPS to detect and destroy specific targets within a group of ships.

"One of the biggest improvements of this weapon is its ability to receive target or coordinate updates in-flight," Garner said. "Unlike the JASSMs 'fire and

forget' mentality, this new technology gives you the chance to 'fire and change your mind.' Because of the standoff feature these weapons possess, they tend to be in-flight for some time. For us to be able to change its coordinates on the fly provides us with a large range of flexibility."

The overarching concept behind the B-1's rise in the maritime environment can be attributed to the Department of Defense's much discussed Air-Sea Battle concept, in which long range bombers serve as a key tenet.

ASB is designed to guide the four branches of the armed forces as they work together to maintain a continued U.S. advantage against the global proliferation of advanced military technologies and anti-access/area denial capabilities.

Furthermore, should the LRASM technology be fielded into a variant of the JASSM-ER, the B-1 presents itself as a premier platform to carry the weapon, as it is currently capable of carrying 24 of the long range missiles, tops across all Air Force platforms.

The 337th TES is scheduled to complete its first live-fire test of the missile in the coming months.



U.S. Air Force Master Sgt. Troy Drasher (left) and Tech. Sgt. Alfred Agee both from the 7th Maintenance Group load a Long Range Anti-Ship Missile (LRASM) into the bomb bay of a B-1 Bomber June 12, 2013, at Dyess Air Force Base, Texas. Unlike current anti-ship missiles the LRASM will be capable of conducting autonomous targeting, relying on on-board targeting systems to independently acquire the target without the presence of prior, precision intelligence, or supporting services like Global Positioning Satellite navigation and data-links. These capabilities will enable positive target identification, precision engagement of moving ships and establishing of initial target cueing in extremely hostile environment. (U.S. Air Force photo by Airman 1st Class Damon Kasberg/Released)

## BRIEF from page 13

blackjack and wheel of fortune. Participants are given play money to try their hand at these games to increase their dollars which will then be used at a prize auction beginning at 10:15 p.m. The dining room will be open from 5-9 p.m. with full menu available.

**Last Friday Trivia Contest** will be Aug. 30. Trivia starts at 6:30 p.m.

with questions in random categories. Teams may have up to four people. No cell phones are permitted during the event. Anyone using a phone while a question is underway will be disqualified. There are eight rounds with three questions per round. For rounds 1-4 teams have two, four and six points to wager per round. Rounds 5-8 teams will have four, eight and twelve

points to wager per round. Only one points value may be used per question. For example, if you wager four points on the first question then you must choose either two or six points for the next question. Whichever value is left must be used for the final question in that round. After the eighth round, teams may wager up to their total points earned for the final question. Prizes are

awarded for top finishers.

### Fitness Center 454-6440

Check us out on Facebook! Arnold AFB Services Fitness Center

**Introduction to High Intensity Interval Training** will be held Aug. 13 and 15 from 11:15 am. – 12 p.m. High intensity interval training describes any workout that alternates between intense bursts of activity and fixed periods of less-intense activity or even complete rest. These sessions are designed to introduce fitness enthusiasts to the varieties and benefits of High Intensity Interval Training.

**Battlefield Day** is set for Aug. 14 beginning at 11 a.m. This event will be a field day at the running track behind the A&E building consisting of a four person 400 meter relay (1 lap each), 60 meter sprint, tire hammer and toss and tug of war. The tire hammer and toss consists of hitting a tractor tire twenty full swings then flipping it as many times as possible in thirty seconds. Services prizes will be given to the winners in each event. T-shirts will be given to the first 30 to sign up. Call 454-6440 for more details or to sign up.

The Health and Wellness Center (HAWC) will host a **Dog Day Challenge** event Aug. 28 at 11 a.m. in front of the Fitness Center. This event will consist of timed circuits of tire flips, weighted sled push, weighted sled pull, two-handed medicine ball chest pass for distance. First, second and third place overall time in all events will receive prize. The first twenty-five to sign up will receive an event t-shirt. Call 454-6440 to sign up.

### Outdoor Rec (ODR) 454-6084

Check us out on Facebook! Arnold AFB Services Outdoor Recreation

**Did you know ODR now has disc golf?** Disc golf is a flying disc game in which individual players throw a flying disc at a target. Much like golf, the object of the game is to traverse a course from beginning to end in the fewest number of throws of the disc. The ODR course targets are portable so course location may change. Initial plans are to begin in the softball outfield behind the ODR building. Players may play for free with their own discs or rent discs from ODR for \$1 each. There are different sizes and weights of discs much like different clubs in golf to better serve the needs of the target desired. For more information on disc golf call ODR at 454-6084.

**Basics of Canoeing** is a beginners' introduction course to canoeing. Come join us Aug. 17 as we have a day on the water exploring canoeing. Meet at the Crockett Cove pavilion at 9 a.m. where guests will learn about the canoe, equipment, emergencies, and wet exits. Following the class room time, participants will pair up (2 people per canoe) and load equipment to go to the beach and practice entering, maneuvering, paddling and turning. A wet exit, basic self-rescue, and additional strokes will also be practiced. Participants will then take a tour of the lake to practice their new skills. The class will be approximately 5 hours in length. Cost is \$10 and the class is for ages ten and older. There must be at least four to take the course and no more than ten. Sign up by Aug. 16.

**FamCamp outdoor movie nights** will be Aug. 3 and 31. If you are camping over these weekends you can enjoy an outdoor movie for free on Saturday beginning at 7:30 p.m. Bring your chairs or blankets to the open grass area behind the upper bathhouse. Free caramel popcorn will be provided. The movies are as follows:

Aug. 3 – "G. I. Joe: Retaliation," PG-13, 1 hr. 50 min. The G. I. Joes are not only fighting their

mortal enemy Cobra; they are forced to contend with threats from within the government that jeopardize their existence.

Aug. 31 – "Jack the Giant Slayer," PG-13, 1 hr. 54 min. The ancient war between humans and a race of giants is reignited when Jack, a young farmhand fighting for a kingdom and the love of a princess, opens a gateway between the two worlds.

**Camping Guests Lake Tour** is scheduled for 12-2 p.m. Aug. 4 and 18. ODR will be hitting the open lake in the SS Stewart to explore the history of Woods Reservoir. Learn about the islands, buildings, and other sites that make this area unique. The lake tour is \$5 and open to guests staying in FamCamp, Crockett Cove and Dogwood Ridge. The lake tour will depart from the docks of FamCamp at noon.

**Kayaking for Beginners Class** will be held at Crockett Cove Aug. 10 and 24 from 9 a.m. to 1 p.m. This is a beginners' introduction to learn about the kayak, equipment, emergencies and wet exits. Following the classroom time, participants will load up equipment and go down to the beach to practice entering, maneuvering, paddling and turning. A wet exit, basic self-rescue and additional strokes will also be practiced. Participants will then take a tour of the lake to practice their newfound skills. The class will be approximately four hours. Make sure you wear appropriate clothing and bring sunblock. This class is for ages ten and up and cost is \$10 per person. There must be at least three to hold the class and maximum class size is six.

### Wingo Inn 454-3051

Check us out on Facebook! Wingo Inn

**Reservations for Wingo Inn** may be made 120 days in advance. Room rates start at \$53.25 per night. Please call 454-3051 for reservations.

## Close quarters



Senior Airman Nate Hall conducts a post-flight inspection on an F-16 Fighting Falcon, at Kandahar Airfield, Afghanistan. Maintainers inspect aircraft for leaks, cracks or anything that may jeopardize the integrity of the aircraft. Hall is an aircraft maintainer deployed to the 451<sup>st</sup> Expeditionary Aircraft Maintenance Squadron. (U.S. Air Force photo/Senior Airman Scott Saldukas)

### AIRMAN from page 11

In college, Lytle majored in aeronautics, and during his Reserve career he aspired to become a maintenance officer. He said he earned a name for himself as a dedicated Airman.

"I learned early on to let my work ethic speak for me," Lytle said. "The most important thing I learned from my time on the (flightline) is that a good work ethic is essential to earning the respect of others."

Lytle graduated with his bachelor's degree in 1995 from the University of Oklahoma.

One day, his director of operations asked him what he intended to do with his degree. Lytle told him he wanted to become a maintenance officer.

But one day on the

flightline, Lytle's career trajectory took a turn.

#### Transition to the cockpit

"One morning I was sitting on an F-16 fixing a gun issue that had been giving us trouble for a few days," Lytle said. "I watched the pilots walk out, get into their jets and take off. As I sat there, knee deep in a gun belt, I thought to myself that I wanted to do that."

Lytle went back to his director of operations, let him know he wanted to apply for pilot training and started building his package to submit to the selection board.

"I was sweating waiting for an answer," Lytle said. "There was a lot on the line. I really wanted it."

While waiting to hear from the board, Lytle was

offered a weapons loader position as an Air Reserve Technician at Homestead Air Reserve Base, Fla. It was an opportunity, at the time, he said he couldn't pass up. He accepted and began moving.

Shortly after moving to Homestead, Fla., Lytle received word he'd been accepted into pilot training.

"I was so excited when I found out I had been accepted into pilot training," Lytle said. "Then the gravity of it all hit me, and I knew I couldn't mess up."

But before pilot training, Lytle had to first find a base that needed a new fighter pilot. He was planning on filling a pilot slot back at Bergstrom AFB, but the base was on the verge of closing so he had to search for a new place to begin his life in the skies.

"I remember calling around to every fighter base, but I couldn't find a base that would take me," Lytle said. "The director of operations at my base spoke with the commander about my situation."

As luck would have it, the commander at his previous base was about to become the new wing commander at Homestead ARB. Because of Lytle's reputation for his dedication and work ethic, the commander said he'd make sure Lytle would have a spot at Homestead ARB.

"I was meant to be at Homestead," Lytle said.

#### Life in the cockpit

"I kid you not, pilot training was the most intense thing I have ever been through because they're throwing so much

information at you all at once," Lytle said. "All my free time went to studying. Being a pilot is hard work, but it's highly rewarding knowing you're keeping the guys on the ground safe."

According to Lt. Col. Timothy Rusch, the 93rd FS director of operations, due to his diverse experience, Lytle truly understands what the maintainers go through, which gives him a unique perspective as a pilot.

"My heart is on the (flightline)," Lytle said. "I really enjoy the chief of scheduling role because I get to interact with the maintainers and it brings me one step closer to the (flightline)."

During a recent operational readiness inspection, Lytle was key in the

93rd FS's communications with maintenance, Rusch said.

"He efficiently and effectively gets the job done and considers his people while he does it," Rusch said.

Lytle said he still loves being out on the flightline and finds every possible opportunity to get out there. He still looks back on his time as a weapons loader as a vital asset in his career experience.

"I know about the long hours that are involved in keeping this jet armed and mission ready," he said. "This experience helps me be a better pilot because when there's an issue, I have unique insight as to what might have gone wrong. I've definitely been involved in situations where I drew from knowledge I acquired as a weapons loader."



## Check out what the Air Force is doing on social media!

The Air Force Social Media Program includes key social networking websites where the Air Force engages with Airmen, families and the general public. Here are a few links to official Air Force social media pages:

**Social Media Directory**  
<http://www.af.mil/socialmedia.asp>

**Air Force Live Blog**  
<http://airforcelive.dodlive.mil>

**Facebook**  
<http://www.facebook.com/usairforce>

**Flickr**  
<http://www.flickr.com/usairforce>

**Twitter**  
<http://www.twitter.com/usairforce>

**YouTube**  
<http://www.youtube.com/afbluetube>

**Vine (for mobile iOS, Android devices)**  
[@usairforce](http://vine.co/usairforce)

**Instagram**  
<http://instagram.com/officialusairforce>



Air Force Social Media Guide

Download this social media guide online!



<http://1.usa.gov/Y79V9c>

## Social Media for Airmen

In general, the Air Force views social media sites positively and respects your rights as Americans to use them to express yourself. However, by the nature of your profession, you are always on the record and must represent our core values. Air Force Instruction 1-1, *Air Force Standards*, outlines how Airmen should conduct themselves on social networking websites. Here are a few things to remember when communicating online via social media as an Airman:

- 1 You are personally responsible for what you say and post on social networking services and any other medium.
- 2 Consider how a post can be interpreted by the public. Be cautious about crossing the line between funny and distasteful. If you have doubts about whether you should post something, err on the side of caution. If the post in question concerns the Air Force, discuss the proposed post with your supervisor or your local public affairs office.
- 3 Maintain appropriate communication and conduct with officer and enlisted personnel, peers, superiors and subordinates (to include civilian superiors and subordinates).



## Hashtags

When posting on social media platforms like Twitter, Facebook, Instagram, Flickr, etc., you can use hashtags to help tell your story to a wider audience.

### What's a hashtag?

A hashtag categorizes topics in social media. The hashtag symbol "#" is used before a keyword or phrase (no spaces). You can follow specific hashtag topics to see a consolidated list of relevant posts by other social media users.



How can Airmen use hashtags?  
You can use a hashtag to mark keywords or topics.

What Air Force hashtags should I use?  
The Air Force uses #AirForce, #Airmen and #USAF.

Visit the Air Force's Twitter page:  
<http://www.twitter.com/usairforce>

