

## HIGH-MACH



Arnold AFB, Tenn. Vol. 62, No. 3

US POSTAGE PAID TULLAHOMATN

**February 9, 2015** 

### F135 test demonstrates success of AEDC workshare initiative

By Deidre Ortiz

ATA Public Affairs

"The workshare initiative is an example of how AEDC consistently improves the test experience," said Dan Blaettler, Force Engine Component Improvement.

Blaettler's comment is in reference to the Accelerated Mission Testing (AMT) of the F135-PW-100 Conventional Take Off and Landing/Carrier Variant (CTOL/CV) occurring in the Sea Level 2 (SL-2) test cell at Arnold Air Force Base. The F135 engine, which Strike Fighter.

As part of the workshare efforts now being implemented at Arnold Air Force Base, AEDC test teams have taken on responsibilities that are usually held by the original equipment manufacturer. This new process was displayed during the F135 AMT when testing was performed for

a day without assistance from Pratt & Whitney personnel – a milestone event for AEDC.

John Kelly, AEDC F135 test manager, stated that in the past an F135 AMT in the sea level test cells SL-2 or SL-3 required program manager of U.S. Air at least two Pratt & Whitney test engineers, one mechanic, one instrumentation tech and one controls engineer from United Technology Corporation Aerospace Systems.

"Due to the workshare program we've initiated at AEDC, we've been increasing the role of AEDC in SL AMTs," he said. "When we ran on Nov. 26, we ran E116 with only AEDC and has been tested at AEDC since ATA personnel and the Hamilton 1999, powers the F-35 Joint Sundstrand controls engineer. No Pratt & Whitney personnel were on-site for the testing. We were able to prep the engine for the test, which includes a walk around inspection to ensure the engine is properly configured. We then accomplished the day's testing followed by completing

See TEST, page 3



ATA Test Engineer Darren Carroll, pictured in front, assists as Pratt & Whitney Test Engineer Ronnie Thomas does a borescope inspection of the fan on the F135 engine. (Photo by Jacqueline Cowan)

## **AEDC** committee announces **Black History luncheon**

Celebrating a century of African American life, history and culture

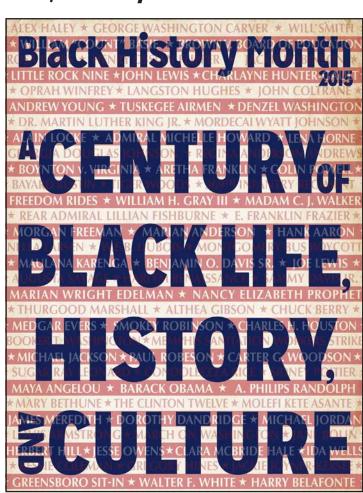
By Raquel March ATA Public Affairs

Lt. Col. Anthony Walker

The African American Heritage committee will hold a Black History luncheon Feb. 19, 11 a.m., at the Arnold Lakeside Center where they will celebrate African American contributions in history and culture.

The 2015 Black History theme, established by the Association for the Study of African American Life and History (AS-ALH), is "A Century of Black Life, History and Culture." The theme represents how African American lives have become major forces in the history of the United States and the world.

The luncheon speaker is Lt. Col. Anthony Walker, the director of the AEDC Aeropropulsion Ground Test Branch and the Aeropropulsion Combined Test Force. He leads a team of more than 500 Air Force and Navy government and contractor individuals. Additionally, he manages the \$4 billion facility requirements and resources supporting unique test capabilities including sea level, simulated altitude, high



Mach up to hypersonic speeds.

Walker received a bachelor degree in mechanical engineering from Tuskegee University in 1997. He is a 2002 graduate of Flight Test Engineer U.S. Air Force Test Pilot School, Edwards Air Force Base, Calif. He no later than Feb. 13. Tickhas held a variety of assignments in the Air Force specializing in air and space testing, foreign military sales, and various areas of systems acquisition and sustainment. Walker also served as an exchange officer with the Japan Air Self Defense Force in Japan and was selected for the

Department of State Immersion Program by the Air Force Chief of Staff Political Advisor. He has been assigned as officer aircrew in multiple aircraft systems accruing over 400 flying hours.

Reservations must be made ets may be purchased by non-Services members for \$11 and by Services members for \$10. AEDC personnel may make reservations at https://ata.arnold. af.mil/rsvp/. Cash purchases of tickets may be made by calling 454-4823, 454-6804, 454-6557 or 454-4949.

## **AEDC 2015 Fellows nominations** needed by March 25



By Raquel March

ATA Public Affairs

AEDC is currently accepting nominations for the 2015 Fellows Program with submissions due no later than March 25.

Established in 1989, the Fellows program recognizes AEDC individuals who have made substantial and exceptionally distinguished technical contributions to the nation's aerospace ground testing capability at AEDC.

Since the inception of the program, AEDC has bestowed the complex's highest honor to a total of 83 individuals (Fellows, Craftsmen Fellow, Lifetime Achievement Fellows and Honorary Fel-

AEDC Fellow nominations may be submitted by any present or former AEDC government or operating contractor/subcontractor employee. All current or retired military, civilian and operating contractor and subcontractor personnel assigned or previously assigned to AEDC can be considered candidates for selection as an AEDC Fellow. Candidates qualified for consideration as an AEDC

Fellow must personally have made sustained, notable and valuable contributions in aerospace

ground testing at AEDC. AEDC Craftsmen Fellow nominations may also be submitted in the same manner as the AEDC Fellow nominations. All current or retired military, civilian and operating contractor/subcontractor personnel assigned, or previously assigned, to AEDC can be considered candidates for selection as an AEDC Craftsmen Fellow. The Craftsmen Fellow category recognizes exceptional craftsmen who possess the ability to identify customer requirements and respond with sustained technical innovations, working effectively and efficiently as part of technical teams and have dedicated their careers to the success of AEDC's mission. They must have personally made notable and valuable lifetime contributions to AEDC in any area relevant to the AEDC mission.

**AEDC Lifetime Achievement** 

See FELLOWS, page 3



**Engineering students give** technical presentations at colloquium

...Page 3

**AEDC's economic impact** \$620.9 million in FY14

...Page 3

**AEDC** quarterly award winners announced ...Page 9

#### HIGH MACH

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

Command **Test Complex** 

Col. Raymond Toth 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 The Tullahoma News, 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 Materiel Command'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 B212, Arnold AFB, Tenn. 37389-2212. 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 The Tullahoma News 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.

The complex's vision: Be the nation's best value ground test and analysis source for aerospace and defense systems.



#### Core Values

· Integrity first · Service before self Excellence in all we do



Vision

"ATA will be a trusted partner in delivering best value warfighter to AEDC"

#### Core Values

- · Be accountable for our own actions
- · Ensure the safety of individuals and equipment Demonstrate 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

## Be prepared for winter storms and extreme cold

AEDC Safety, Health and Environmental

Major cities – including New York City, Boston and Philadelphia – were largely shutdown Jan. 26.

Rhode Island declared a travel ban, and airports in a large portion of the Northeast cancelled flights. So far, we've been spared, but extreme cold and ice or snow storms can happen here. Most of us have experienced at least one ice storm; many remember March 11-12, 1993, when two to four feet of snow blanketed Middle Tennessee overnight. And we can all remember the sub-freezing weather of a few weeks ago.

**AEDC** Emergency Management offers a few suggestions for taking care of ourselves before, during and after periods of extreme winter weather:

#### Before extreme cold arrives

• Ensure walls, attics,

crawl space and pipes are properly insulated.

- Caulk and weatherstrip doors and windows.
- Install storm windows or cover windows with plastic from the inside.
- Acquire safe emergency heating equipment.
- Install check and smoke and carbon monoxide detectors.
- Prepare your vehicle. Install winter tires. Get an ice scraper and small broom or brush for ice and snow removal. Stash a blanket and unperishable food and water. Maintain a near-full tank of gas.

#### **During times of extreme** cold if indoors

- Stav indoors and dress warmly.
- Listen to local weather for the latest up-

dates.

- Conserve fuel. Close off unused rooms. Set the thermostat to 65 degrees Fahrenheit during the day and 55 degrees Fahrenheit at night.
- Let faucets drip to avoid freezing; know valves.

#### **If Outdoors**

- Dress warmly in loose-fitting, layered, light-weight clothing; wear gloves and appropriate footwear and headgear. Try to stay dry.
- Cover your mouth to protect your lungs from extremely cold air.
- If you go out to shovel snow, do a few stretching exercises to warm up your body.
- Watch for symptoms of frostbite or hypothermia.

 Avoid overexertion. Unaccustomed exercise and cold weather put added strain on the heart and can lead to heart attack or worsen other medical conditions. Break often during strenuous activities.

#### how to shut off water If stranded in a Vehicle

- Stay in the vehicle. Do not leave to search for assistance unless you see a building close by where you know you can take shelter.
- Display a trouble sign. Hang a brightly colored cloth on the antenna.
- Occasionally run the engine (about 10 minutes per hour) to keep warm. Avoid carbon monoxide poisoning by keeping the exhaust pipe clear of snow and opening a down-wind window slightly for ventila-

- Turn on the dome light at night.
- Try not to stay in one position too long. Do minor exercises to keep circulation flowing. Clap hands and move arms and legs occasionally.
- Huddle together for warmth. If blankets are unavailable, use newspapers, maps, and even removable vehicle mats for added protection.

#### After extreme cold passes

- Notify friends or family of your condition.
- Use phone service sparingly.
- Monitor local radio and television stations for the latest information.
- Help those who have special needs - the elderly, large families, children, and those with disabilities.

## My journey as a victim advocate

By Staff Sgt. Maria **Bowman** 

375th Air Mobility Wing Public Affairs

#### BASE, Ill. (AFNS) -

ty. I remember being sadbelieve her, because her time. rapist was loved by the her behavior that night.

years. I have wanted to difficult experiences to sexual assault for a long of anger and sadness time - I just wasn't sure arose within me. Words how.

vention and Response aloud. program. After learning

ual Assault Response Co- ease, knowing I would abilities grew. ordinator saying some- have someone to turn to the next day to fill out a tions came up. report. After hanging up

out this entire process.

The next day, I met my first client. My anxiety was up, and I was feeling **SCOTT AIR FORCE** very nervous because this was my first time doing When I was a teenager, this outside of a training I saw a movie about a environment. This person college student who was mattered, and I wanted raped by her brother's to show her empathy and fraternity brother at a par- compassion during this difficult time. Her trust in dened by what happened another person had been to her; not only by the violated, and I was tryact of sexual assault, but ing to show her that she ministrators and students that would not be an easy treated her when she detask to accomplish, but it cided to come forward. was important to be there The school didn't want to through this very scary

and thoughts flooded my Then, I learned about brain, but I was finding

of comfort and support with her alone. While we SARC or the Special Vic- Now, I knew she would through together.

she would need through- waited for the nurse to tims Council. The SVC be able to continue down know me – why should court martial. she possibly trust a comthing I tell her was that I would be her rock, and road to recovery.

> ence beside her was a way she could. blessing. I started to feel derstand how strong she get upset. was. I knew I needed to be strong for her too.

Last year, I received a ence and guidance helped that I would mess things not right. phone call from the Sex- put my mind and body at up, my confidence in my

struggled to find words when it came to anything survivor. that would begin to build concerning her victim

plete stranger? I tried to the SVC as resources come up with the right made it a lot easier to sucthings to say, but the only cessfully advocate for her getting what she needed. that I was here for what- Since the SVC was locatever she needed on her ed nearby, it was easy for me to talk with her and by how the school's ad- could trust me. I knew with the Office of Spe- to build trust in her, benext day, I was begin- really cared about help-

stared at her and judged nothing would have pre- spent advocating on her care of my client through courtroom. pared me for that first behalf would be success- a very stressful time in me for more than 15 survived one of the most tening to her talk about people's testimony, my

the stand to talk about When that was com- what had happened to ed to the relationship I came flooding in, but Fortunately, I wasn't would build with her. mostly, I felt proud. I about the victim advo- going through this alone. After hearing her talk knew her hard times over cacy program, I immedi- The SARC was there, be- about herself and the the past year had paid off, ately signed up because I ing my guide and mentor, struggles she was having, and she was standing up wanted to make a differ- walking us both through I began understanding for herself, saying what

come collect evidence, I was her legal advisor her path toward being a

Throughout my exher trust in me. She didn't rights or the upcoming perience this past year, I have felt thankful for Having the SARC and the people I have worked with. The SARC and the SVC were always available and willing to talk and make sure she was me through any questions I had. They always made sure my needs were being taken care of, too. The commanders and By the time we met get advice. It also helped first sergeants I met with took our concerns or cial Investigations the cause I could see that she needs very seriously and worked hard to make sure ning to feel like my presing my client in whatever they were met. The legal office always took time to Then the court martial discuss the case in great Even with all the hopeful, and I started began. I knew I had to be detail, so we would know school. Other students training I went through, to believe that my time emotionally ready to take what to expect in the

Because of what I That movie and its encounter. I was look- ful. Throughout that long her recovery. While I sat went through last year, message have stuck with ing at someone who had day of interviews and lis- in silence during other and knowing the people and resources available what had happened to mind was working hard to me and my client, I be able to help victims of live through. Feelings her, I began to fully un- to stay focused and not have faith in our SARC's office and the VA's who When my client took volunteer to make a difference in someone's life. They have changed me the Sexual Assault Pre- it difficult to speak them pleted, the focus shift- her, an array of emotion and given me confidence in my abilities, which helped me reach out when my client needed someone to be in her cor-

ner and believe her story. I know my client is a the process. Her pres- her. No longer nervous had happened to her was survivor, and I have faith that she will continue to When the trial con- thrive even after she is cluded, and I heard the standing on her own. I Over the next year, verdict, my only concern am proud to have been a one would be coming in when problems or ques- we would talk about how was for my client. This part of this organization. her case was progress- was another chapter in I feel good about helping When we went to the ing. Whenever she had a her life, and it was clos- someone during a diffithe phone, I began to pray hospital, it was the first question I didn't know, ing. The stress of the cult time in her life – we that I would be able to opportunity to sit with I felt really comfortable pretrial hearings and the are both stronger today provide the right amount my new client and talk talking it over with the court martial were over. because of what we went

## **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, 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 selaed 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.

- 2. Supervisors at every level will ensure this policy is followed. Disciplinary action is appropriate for repeated
  - 3. Updates to this policy will be made in the future to further align with Air Force guidelines. 4. 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. Raymond Toth **AEDC Commander**

## Engineering students give technical presentations at colloquium

By Deidre Ortiz

ATA Public Affairs

University students in the pilot workforce revitalization program at AEDC Hypervelocity Wind Tunnel 9 in White Oak, Md., recently participated in their yearly formal review colloquium in a conference focusing on hypersonic technology, analysis and test.

Held at the Basic Research Innovation and Collaboration Center (BRICC) in Arlington, Va., the conference was part of a technical review for the University of Maryland Workforce Revitalization Program, a program meant to demonstrate and pilot several innovative strategies to strengthen our testing workforce for a future in hypersonic testing and evaluation (T&E).

tific Research (AFOSR) shocks, turbulence char- Tunnel at AEDC White

and the Department of acterization, Resource the program, were also inhosting of the event.

conference allows the enare getting hands-on experience at the wind tunon their particular areas of study in front of a diverse group of technical and in other places. managerial peers.

as well as their peers."

Defense's (DOD) Test modeling and validation. Management They also work in diag-Center (TRMC), which nostics such as temperahelp provide funding for ture sensitive paint (TSP) and background-oriented volved in the planning and Schlieren (BOS). He added that although the benefit to Tunnel 9 Site Direc- the students is alone worthtor Dan Marren stated the while, the increase in technical maturity of AEDC's gineering students, who employees resulting from their participation, mentoring and research is the nels, the chance to present real value to the Air Force T&E enterprise and what we would like to advance

Eight students present-"What a great oppor- ed technical papers and and AEDC Hypersonic tunity for these future en- five others presented on gineers," he said. "This technical posters they creprovides them a setting in ated. The topics covered which to discuss their re- included: Focusing Schliesearch activities with those ren Deflectometry Applied already working in the field to Isolator Shock Train Propagation; Preliminary According to Marren, LES of Hypersonic Shock/ while at Tunnel 9 the uni- Turbulent Boundary Layer Members of the Air versity students are able Interactions; Development Force Office of Scien- to learn about unsteady of PIV in Mach 2.7 Wind



Sammy Park, pictured left, receives the Best Paper Award for his work entitled, "Practical Active Combustion Control for Suppressing Augmentor Instability." Pictured right is Dr. Michael Kendra, program officer of Test and Evaluation for the Air Force Office of Scientific Research, presenting the award. (Photo by Glenn Liston)

Linear Theory; Design of Under Various Mode Op-Layout Using DNS Analy- acteristics Analysis of the Aeroshells.

Shock-Turbulence sis; Simulation of Dual- Internal Flowfield in RDE; Interaction: Lessons from Mode Scramjet Combustor and Optimal Aero-Assisted Spacecraft Missions Us-Flared Cylinder Sensor eration; Method of Char- ing Hypersonic Waverider

## **AEDC's economic impact** \$620.9 million in FY14

By Kathy Gattis

ATA Public Affairs

AEDC's economic impact which includes AEDC and its remote operating locations the Hypervelocity Tunnel 9 at White Oak in Silver Spring, Md., and the National Full-Scale Aerodynamics Complex at Moffett Field, Calif. - was \$620.9 million in Fiscal Year 2014.

Each location impacted the local areas through payroll, secondary jobs, created through local spending, and other expenditures for supplies, utilities, fuel and services and the spin-off impact of those purchases.

AEDC employed a mixture of active-duty military personnel from the Air Force and Navy; Department of Defense civilians; and contractor personnel, which totaled 2,310 personnel in fiscal 2014. Of the 2,310 personnel, 52 were active-duty military; two Air Force Reserve and National Guard; 291 appropriated fund civilian employees (includes general schedule, federal wage board and other military branches); 60 government non-appropriated fund employees; 30 other civilians (credit union, Base Exchange and commissary tenants); and 1,875 contractor and sub-contractor employees.

Additionally, using the Tennessee Valley Authority economic impact model methodology, AEDC estimated that more than 1,640 secondary jobs were created in the local area, for a total of 3,950 jobs directly related to AEDC. Examples of secondary jobs include those created by home construction and at local supermarkets, car dealerships and department stores.

During fiscal 2014, the payroll cost for AEDC government and contractor personnel was \$304.4million. AEDC's direct expenditures which include utility costs, service contracts with outside vendors and military health insurance paid to local doctors and hospitals - was \$117 million. Furthermore, the indirect spin-off impact of these direct expenditures is approximately \$198 million.

The overall economic impact figure does not include more than \$102 million paid to the approximately 4,554 retired military personnel living in the local area. In total, this retired pay group generates more than \$150 million, including the spin-off effect.

The economic impact data and secondary employment estimates represent AEDC's economic impact during fiscal 2014, which runs from Oct. 1, 2013 to Sept. 30, 2014.

AEDC operates the world's largest complex of ground test facilities with a replacement value of more than \$11.8 billion.

## **AFMC** promotes awareness of heart attack warning signs

By Air Force Materiel Command **Wellness Support Center** 

WRIGHT-PATTERSON **AIR** FORCE BASE, Ohio – February is American Heart Month. The National Institutes of Health reports that more than one million people in the United States have a heart attack each year. Of the people who die from heart attacks, about half die within an hour of their first symptoms and before they reach the hospital. When a heart attack happens, delay in treatment can be deadly. It is important to learn the warning signs and symptoms of a heart attack and know the single most important thing you can do to save a life: call 911 immediately for emergency medical care.

According to the American Heart Association, warning signs of a heart attack may include:

- Chest discomfort that feels like pressure, fullness or a squeezing pain in the center of the chest
- Upper body discomfort that extends beyond the chest to one or both arms, back, shoulders, neck
- Unexplained shortness of breath, with or without chest discomfort
- Other symptoms include: feeling of extreme fatigue, cold sweats, lightheadedness or sudden dizziness, nausea and vomiting

Chest pain and discomfort are the most common heart attack symptoms for both men and women. But women may experience other common symptoms. These include shortness of breath, nausea or vomiting, and back and jaw

Quick action can save a life. If you can help stop a heart attack.

**Learn What a Heart Attack Feels Like-**It Could Save Your Life.

This fact sheet tells you about heart attack signs. It also tells you what to do if you are having any of these signs

#### Take these steps. They could save your life.

- 1. Know the signs of a heart attack.
- 2. Understand that heart attacks are not all the same
- 3. Act fast.

#### **Know the heart attack warning signs.**



Your chest hurts or feels



You may feel light-headed or break out in a cold sweat.



One or both arms, your back, shoulders, neck, or jaw may hurt.







You may feel sick to your stomach, or your stomach



You may feel really really tired.



or someone you are with experiences symptoms, call 911 immediately. Do not wait more than five minutes to make the call. Contacting Emergency Medical Services as soon as possible will allow for the administration of clot-busting and artery-opening medications that

During the month of February, chest discomfort or other heart attack Civilian Health Promotion Services (CHPS) will be conducting educational briefings on heart disease prevention and the warning signs of a heart attack. For more information regarding CHPS activities for American Heart Month, visit www.AFMCwellness.com or contact your local CHPS team.

#### TEST from page 1

everything required to safely it gained the customer an exengine."

saving customers time and the [Thanksgiving] holiday." money is top priority.

expenses," Kelly said. "Also, remains innovative and is al-

shutdown both the facility and tra day of testing because this would normally have been a

Jeff Albro, Joint Strike "This is a cost savings to Fighter Program Office test the customer, because none of and evaluation manager for the our AEDC people are on travel F135 engine, noted that AEDC

tomer the most for its money.

"The workshare initia-Though perhaps more work travel day for the Pratt & Whit- tive is another way in which on the AEDC test team's part, ney personnel to get home for AEDC continues to think out agreement that the AEDC of the box," he said. "What challenged in terms of traditional manning profiles. When change to 24-hour operations

ways looking to give the cus- for AMT testing, the result is tangible savings to their cus-

tomers." Blaettler stated he's in "workshare decreases cost, inused to be the norms are being creases flexibility and achieves customer satisfaction."

The F135 AMT in SL-2 we combine this with AEDC's is ongoing and is expected to wrap up sometime this spring.

#### FELLOWS from page 1

Fellow nominations may retired military, civilian and operating contractor/subcontractor

sidered candidates for selection be submitted by any present or as an AEDC Lifetime Achieveformer AEDC government or ment Fellow. Candidates quali-

Only AEDC Fellows may personnel assigned or previously submit a nomination for an assigned to AEDC can be con- AEDC Honorary Fellow. AEDC lows are honored annually on Arnold AFB, TN 37389-1327.

Honorary Fellows are reserved for exceptional candidates and are not necessarily selected each operating contractor/subcon- fied for consideration as an year. Candidates qualified for tractor employee. AEDC Life- AEDC Lifetime Achievement consideration as an AEDC Hon- cluding the format for AEDC time Achievement Fellows are Fellow must personally have orary Fellow must have made Fellows nomination submisreserved for exceptional can- made notable and valuable life- sustained, notable, valuable didates and are not necessarily time contributions to AEDC in and significant contributions to selected each year. All current or any area relevant to the AEDC AEDC. These eminent individuals need not have worked at Arnold AFB.

Newly selected AEDC Fel-

or about June 25, the birthday of General of the Air Force Gen. Henry "Hap" Arnold.

For more information insions, contact the AEDC Chief Technologist office at (931) 454-6505. Nominations must be submitted in written form with supporting materials to: AEDC/CZ, 100 Kindel Drive, Suite A327,



#### ATA makes donation to Huntland Interact Club

The ATA Employee and Community Activities Committee (E&CAC) recently made a donation of \$250 to the Interact Club at Huntland High School. The donation was made in support of the club's community service projects. Interact stands for International Action, and as part of the organization, students participate in projects to make a difference within their community. Pictured left to right: Rachel Collins, Alanna Morrow, Savannah Davis, E&CAC representative Andrea Stephens, Mikayla Roland, Saede Stinnett and J.C. Stephens. (Photo by William K. Bishop)



Have 401(k) Questions?

Let's Talk

Deta Cunningham
Financial Advisor

931-728-8398 www.edwardjones.com

**Edward Jones** 

MAKING SENSE OF INVESTING

# AF, small business developing critical processors for satellites

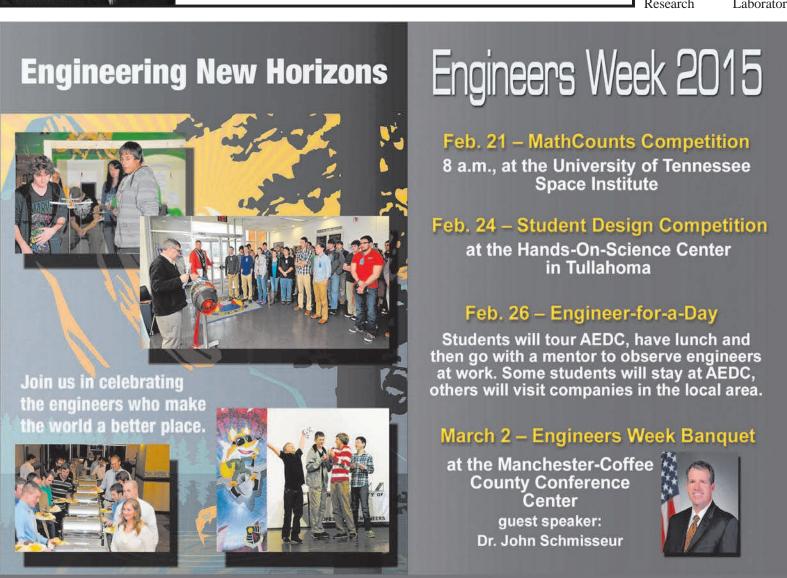
By 88th Air Base Wing Public Affairs

WRIGHT-PATTER-SON AIR FORCE BASE (AFNS) – The Air Force Research Laboratory (AFRL) and a small business partner are developing technologies that they expect will enable successful use of high-power processors that operate on satellites with funding from the Air Force Small Business Innovation Research (SBIR) program.

next-generation, micro-chip carrier is currently in development by ThermAvant Technologies LLC, located in Columbia, Missouri, and is already being tested by manufacturers of several major commercial and military satellite and aerospace systems. This innovative cooling solution will reduce the temperature of high-power satellite components to levels manageable by the spacecraft's thermal control system. This is advantageous, because it improves processor reliability while providing the opportunity to increase on-board processing.

"If successful, this technology solution could be headed for every major DOD space system, where it will replace the current, state-of-the-art technology developed during SBIR programs 10 years ago," said Dr. Greg Spanjers, the chief scientist of AFRL's Space Vehicles Directorate.

See **SATELLITES**, page 5



For more information or to volunteer, call 454-6316.

Banquet Tickets: 454-4335, 454-4495, 454-6093, 454-6542, 393-6632 or 454-4345

## F-35 arrival begins new era at weapons school

By Staff Sgt. Siuta B. Ika 99th Air Base Wing Public Affairs

NELLIS AIR FORCE BASE, Nev. (AFNS) – A new era began at the U.S. Air Force Weapons School when its first F-35A Lightning II toucheddown on the flightline Jan. 15, flown straight from the Lockheed Martin plant in Fort Worth, Texas.

Working in conjunction with the U.S. Air Force Warfare Center and 422nd Test and Evaluation Squadron, Col. Adrian Spain, the USAFWS commandant, said the weapons school's first F-35 will be used to drive tactics development with the immediate goal of creating a curriculum for the first F-35 course.

"That's going to be the initial focus over the next year," Spain said. "Certainly in the next yearand-a-half or so, we will be far enough along in continuing (tactics development) to develop a weapons school syllabus for the F-35. ...In the next two years, we'll be transitioning pilots in the short term to get F-35 experience, but we'll also be developing the (combat air forces) syllabus."

The arrival and integration natural evolution toward the Air and will have far-reaching effects, explained Spain.

"The addition of the F-35 is something that is unquestionable in terms of its impact on the rest of the Air Force and our ability to wage war in a modern battle space," Spain said. "Behave in our inventory, those capabilities need to be integrated as quickly as possible and as efficiently as possible, so the rest of the field knows how to go to war with it, if it's ever called upon."

While the first and subsewill initially operate under the block approach" with the F-35. umbrella of the 16th Weapimportant not to template any of the current legacy aircraft, onto the F-35, said Lt. Col. Dacommander.



The U.S. Air Force Weapons School's first assigned F-35A Lightning II sits under a sun shade on the flightline Jan. 15, at Nellis Air Force Base, Nev. Working in conjunction with the U.S. Air Force Warfare Center and 422nd Test and Evaluation Squadron, the USAFWS' first F-35 will be used to drive tactics development. (U.S. Air Force photo/Airman 1st Class Mikaley Towle)

of the F-35 into the school is a of people from every MDS, integrate as part of those, even (or) mission design series," Force's desired force mixture Epperson said. "We're going to continue to take instructors and experts from all the MDSs and combine them together, so that we can leverage all of their knowledge from their own MDS as we move forward to the mission sets of the F-35. ... So it's going to be incumbent upon cause it's the latest fighter we the (weapons instructor course) instructors, along with all the operational test and evaluation cadre that develop the tactics, to think outside of the container, and to look into the future and develop brand new tactics using their expertise."

Epperson also said the quent USAFWS-assigned F-35s school will take a "building-

"U.S. Air Force Weapons ons Squadron - the weapons School programs, as they are developing the tactics and testschool's F-16 squadron – it is currently set up, leverage all of the capabilities that the Air Force has to offer; especially and how they execute missions, as we get into more of the integrated scenarios toward the end vid Epperson, the 16th WPS of the course," he said. "The last three weeks of the course "We're going to build the we do different types of integra-F-35 weapons school cadre out tion and the F-35 will start to

before it stands up as a weapons school course. ... As we learn more through the tactics development of the F-35, we'll see where it will blend into the current capabilities of the assets we have at the weapons school and we will make that part of the syllabus, so we (can) expose the weapons school graduate to the capabilities that the F-35 has."

Maj. Gen. Jay Silveria, the USAFWC commander, said the future of the F-35 at the school and at Nellis Air Force Base is

'We take our role in preparing the F-35 for its initial operational capability seriously," Silveria said. "Nellis is out in front of this - Nellis is leading the way in preparing the F-35 and ing it operationally. (Flying the F-35) is like getting a glimpse into the future. It's pretty amazing to see what the Air Force is going to be like in the future and that future is pretty incredible."

The first F-35A USAFWS student course is tentatively scheduled for January 2018.



Monique Purdon, Lockheed Martin's wind-tunnel lead on the F-35 Lightning II store separation team, examines a GBU-39 Small Diameter Bomb (SDB) in the AEDC four-foot transonic wind tunnel. (Photos by Rick Goodfriend)

#### SATELLITES from page 4

began researching the application of this technology as a result of an Air Force rise across the heat spread-SBIR solicitation. The project called for reliable, highconductivity heat spreaders; ThermAvant demonstrated the improved heat transfer properties of different structural materials including aluminum, titanium, copper and copper molybdenum composite embedded with the Oscillating Heat Pipe (OHP) technology. OHPembedded chip carriers and heat spreaders will be used to transport heat dissipated by micro-chips to the spacecraft's larger thermal control systems.

This is a critical technology for space-based systems that will enable the deployment of higher temperature and power processors aboard satellite payloads. It can be used in both commercial and military satellite applications, as well as any highperformance land-based electronics. ThermAvant successfully investigated the thermal performance tradeoffs of different fabrication processes for making OHP heat spreaders under a range of simulated realworld operating conditions.

During the testing, ThermAvant's prototype OHP- of this Phase II SBIR, mercial use.

provided an 84 percent reduction in the temperature er, when compared to current state-of-the-art technologies. This reduction in temperature provides many benefits for the Air Force, but the most striking is the ability to increase the onboard computing power.

Current satellite processors are running at 10 percent of their operating capability as a result of insufficient thermal management. Reducing the junction temperature allows for increased processing capability, up to 10 times more, and increases the expected lifetime of the on-board chips.

Additionally, the admanufacturing techniques developed under this effort will allow 1982 to fund research and this higher performing technology solution to be manufactured at a lower price point than competing technologies.

The company's improved methods for making OHP-based products has already demonstrated commercial promise to both space- and groundbased thermal management the early stages of concept applications for electronics. During the first year sitions to military or com-

AFRL and ThermAvant embedded heat spreaders ThermAvant transitioned OHP-based thermal management solutions to four major defense contractors for six applications on platforms ranging from Army tanks to Navy ships and Air Force aircraft and spacecraft. In these applications, the OHP-based thermal management solution performs 5 to 50 percent better than the status quo and is, on average, approximately 20 percent less expensive.

The Air Force SBIR and Small Business Technology Transfer (STTR) programs are mission-oriented programs that integrate the needs and requirements of the Air Force through research and development topics that have military and commercial potential. The SBIR program was established by Congress in development through small businesses of 500 or fewer employees.

The Air Force SBIR and STTR programs provide more than \$300 million in funding for research and development activities by small businesses annually. With this budget, the Air Force funds research from development until it tran-

## A dream born from chaos

By Senior Airman **Aubrey White** 

633rd Air Base Wing Public **Affairs** 

#### JOINT BASE LANG-LEY-EUSTIS, Va.

(AFNS) – In the early hours of Dec. 20, 1989, when most of Panama City was sleeping, a 10-yearold boy and his family were awakened by explosions and helicopters overhead. The family exited their home, only to witness pandemonium: buildings burning down, people running and screaming.

War was reality for Arjune Haynes and many other Panamanian citizens during Operation Just Cause - the U.S. invasion of Panama to overthrow military dictator Manuel Noriega.

"My mom woke me up and I could hear the firefights," Haynes recalled. "All I could see were buildings burning and falling apart. I was scared."

the confusion, Haynes said all he could spoke to his father, a Pando was cry.

After sleeping at a family friend's home, Haynes said he remembers witpatrolling the streets as criminals looted nearby stores.

A couple days later, Haynes and his family returned to see what was left of their home. He recalled peering at the smoldering rubble of what used to be his neighborhood. His mom left for a moment to visit the families of loved ones they'd lost in the midst of the chaos.

alone and upset, Haynes out middle and high said he noticed an unlikely school. He

companion walking toward him.

"I was crying and scared, and that's when one of the (U.S.) Soldiers came up to me and said, 'Are you all right?'

"I was just looking at him and I didn't say anything," Haynes said. "He gave me a Baby Ruth, I'll never forget. He said, 'Everything's going to be all right. Don't worry; it's going to be all right."

Haynes said the small gesture of the sweet, snacksize candy bar – something most would consider insignificant – was just enough to ease the young boy's nervous tension and leave a lasting impression.

"(The soldier) impacted my life in such a great way," Haynes said. "After that instance, I knew I just wanted to wear the uniform; I didn't know if it was Air Force or Army, I just knew it was the United States armed forces and that's all I wanted to be."

Days later, Haynes ama Canal worker, about his interest in the U.S. military.

"As I got older, I renessing troops and tanks alized I wanted to join the Air Force – mostly because of the planes," Haynes said. "After a little more research, I told my dad my dreams and he immediately enrolled me in a bilingual (elementary) school. At the time I didn't know what was going on, but he was setting me up for (a career in the U.S. military)."

Havnes continued attending bilingual schools, Standing on a curb learning English througheventually



Staff Sgt. Arjune Haynes (left) directs Senior Airman Robert Hart through a pulmonary function test Jan. 16, at Langley Air Force Base, Va. After multiple failed attempts at the Armed Services Vocational Aptitude Battery and being disqualified during his physical, Haynes, a native of Panama, thought his dream of becoming an American Airman were out of reach. Now an Airman of eight years, Haynes said he tells the younger Airmen he comes in contact with to never take no for an answer. Haynes is the 633rd Medical Operations Squadron cardiopulmonary services assistant NCO in charge and Hart is an 633rd MDOS cardiopulmonary technician. (U.S. Air Force photo/Senior Airman Aubrey White)

join the Air Force.

One day in 2000, Haynes' father returned from a long day's work at the Panama Canal with an opportunity Haynes couldn't pass up. His father, who had worked for the United States for more than 20 years before the canal's control was transferred to Panama, was offered the opportunity to move to the United States. I had wanted this for so This move meant Haynes could finally fulfill his dream of joining the Air Force, and although his parents denied the offer, Haynes left with no hesitation.

"Though I knew I

enrolled in college, still would miss my family and gether, and before he knew more obstacle." hopeful for a chance to go friends, I couldn't let the it, six years had passed. to the United States and opportunity slip through my fingers," he said. "I thing of myself; make my family proud, and change better, just as mine was."

recruiter's office in hopes Air Force. of being accepted into the Air Force.

long, the nervousness was overpowered by anticipation," he said. "This was it; this was my chance to accomplish my dream."

expect of the Armed Services Vocational Aptitude Battery pretest, the Air Force-hopeful failed the successfully attempted the use more time to study.

"I wasn't as prepared as I had first thought walking into the recruiter's office," he recalled. "I tried not to allow the failed attempts to deter me from trying again, so I took a few more months to study."

Haynes took the ASpassed. He was another and physical and passed. step closer.

So he thought.

physical, I got disqualified because apparently I had a heart murmur," Haynes said, remembering heartbreak he felt being Staten Island, New York."

of working to provide for years of trying to get into himself seemed to make the Air Force, I knew I days and nights blur to- could make it over one

friend came to visit from was going to make some- Panama, he gave Haynes the awakening he needed to try his hand again someone else's life for the at bringing greater significance to not only his The day Haynes first set own life, but now, with a foot in the United States, 2-year-old daughter, his Dec. 20, 2000, he visited a family's life through the

friend asked, The "What are you doing?" "I was nervous but Haynes said. "Your entire life you've said you wanted to join the Air Force. You left your family. You left your friends because you were seeking your dream and you're sit-Not knowing what to ting here doing something that's not what you wanted. Go back and take the physical again."

"He was right," Haynes exam. After retaking it said. "I couldn't let my and passing, Haynes un- father's hard work in getting me here be in vain. I ASVAB, realizing he could wanted to make my family proud. I wanted to do for someone else what that soldier had done for me, and the only way I was going to accomplish that was by getting back up and trying again."

With his renewed drive, Airfield, Haynes re-entered the enlistment process. This VAB for a second time and time, he took the ASVAB

The words he said he had been longing to say fi-"When I was doing my nally flowed from his lips as he recited the Oath of Enlistment Sept. 19, 2006.

"The moment I swore to support and defend the Constitution of the Unitdenied again. "My dreams ed States, I let out a sigh were shut down, so I put of relief," Haynes said. that on hold and found a "Now, all I had to do was civilian job at a hospital in make it through (Air Force Basic Military Training). Haynes said the hustle If I could make it through

After graduating from When Haynes' best BMT, Haynes returned home to Panama to visit family, friends and his old high school.

"Everyone was super proud. I can't find the words to describe how good it felt," Haynes said. "That was a way of life telling me to never take no for an answer. I was shut down so many times. This was the best decision I've made in my life for so many reasons."

Haynes said he was reassured that fulfilling his dream proved he truly had made the right choice.

Now, Staff Sgt. Haynes, the 633rd Medical Operations Squadron cardiopulmonary assistant NCO in charge, often reminisces on the eight years he has spent in the Air Force and how a childhood dream had flourished into dream come true. When he deployed in 2009, Haynes said he felt he fulfilled the second half of his goal impacting lives with one small act of kindness at a time, just as his was.

"I deployed to Bagram (Afghanistan,) in 2009, and had an extraordinary experience," he recalled. "This was the best experience, knowing that I was taking care of those who are wearing the uniform outside the wire. I had no problem working 12-hour shifts every single day, just knowing I was going to take care of someone and do my best to make sure that person returned home safely."

In an effort to continue his work of positively impacting lives through his military service, Haynes said he always makes sure to give the Airmen around him one specific piece of advice.

"Find your 'why," he said. "There's a (reason) for whatever you want to become or whatever you want to do. If you focus yourself on the 'why,' you'll get there no matter what. My 'why' was to impact someone's life and the only way I was going to do that was to wear the uniform and do the same thing that soldier did for me."

Sometimes a dream can form from a grand revelation or epiphany, but other times a dream can begin as a snack-sized candy bar insignificant to most, but a source of hope and reassurance to those who need it the most.



#### 4th FW Strike Eagles head to Nellis in support of Red Flag 15-1

Two F-15E Strike Eagles wait to receive fuel from a KC-135R Stratotanker Jan. 23, on their way to Nellis Air Force Base, Nev., in support of Red Flag 15-1. The exercise, featuring aircraft from 21 different Air Force squadrons, offers realistic combat training involving the air, space and cyber forces of the U.S. and its allies. The F-15s are assigned to the 4th Fighter Wing and the KC-135R is assigned to the 916th Air Refueling Wing. (U.S. Air Force photo/Airman 1st Class Aaron J. Jenne)

## 341st MMXS missile communications train for field



Bob Fick explains the functions of communications equipment in a launch control center trainer Jan. 20, at Malmstrom Air Force Base, Mont. Fick uses the trainer to familiarize 341st Missile Maintenance Squadron Airmen with how they will work in the missile field. Fick is a 341st Missile Maintenance Squad-Johnston)

The launch control center trainer at the 341st Missile Maintenance Squadron is

used to familiarize 341st MMXS Airmen with how they will work in the missile field. Working equipment procured from the decommissioned 564th Missile Squadron enables the trainer to be a close replica of a real LCC. (U.S. Air Force photo/Airman 1st Class Dillon Johnston)

By Airman 1st Class **Dillon Johnston** 

341st Missile Wing Public **Affairs** 

to ensuring the U.S.'s inter-

MALMSTROM AIR continental ballistic missiles **FORCE BASE, Mont.** are ready at a moment's (AFNS) - When it comes notice, an essential piece to the puzzle is proper maintenance on its communications network.

This is where the 341st Maintenance Missile Squadron Missile Communications training section comes into play.

Using a one-of-a-kind training vault, they are able to provide a realistic training environment to better prepare missile maintenance Airmen for what they will experience in an actual launch control center (LCC), as well as the wires and conduits stretching across the 13,000 square

miles of Montana real estate the missile fields cover.

own trainers, but periodically we have hosted folks systems operational in our from Vandenberg Air Force Base (California) here for some special training," said Bernie Marinaccio, a 341st MMXS missile radio instructor. "They'll come here (missile) bases."

The training facility left over from the decomcommunications found in ter. the field.

"It's still a work in prog- io," he added. ress and there's still a lot our five communications

trainer," Marinaccio said.

By using an on-base trainer, it reduces trips to the field, thus limiting the time missions are put on hold. This keeps LCCs active because we have the better for longer periods of time, trainer over the other two while still providing critical training.

"The more we can do was made possible by uti- on base, the better quallizing parts and equipment ity training we can give (missile communications missioned 564th Missile members)," said Bob Fick, Squadron. The result is a a 341st MMXS missile satnear-replica of an LCC, ellite instructor. "We don't complete with almost all have a time limit; we're not of the functioning commu- interrupting an operational nications systems ranging mission, so we can take our from radio to hardwired time and explain things bet-

"It's just a better scenar-

Because of new de-"Each base has their to do, but we have four of mands on the maintenance personnel, training days for new members of the squadron have jumped from 80 to 120 days, cramming in extra proficiencies and combining jobs done previously by other shops, making each technician a more vital as-

> "We have taken on about another 100 (training) tasks within the last six months," Fick said. "They determined that it would be better for us to do the whole mission, much like the old communications squadron did."

> Where before it would have required lengthy trips to the missile field, having an on-base trainer allows Fick and Marinaccio to rapidly educate 341st MMXS members on the new tasks, reducing training time significantly, and improving and bulking up the force of ready maintainers.

The trainer is constantly being improved and added to, with a major addition expected to be completed later this year.

"There's another big piece to the puzzle, which hopefully we're going to get completed in the spring," Fick said. "There is one task that we cannot do on base - a periodic servicing of an antenna. If we get that set up here as a trainer, all the guys that weren't able to be involved in the training last year out in the field we'll be able to train them all on base."

## **AEDC** quarterly award winners announced



Capt. Michael Saltzman Company Grade Officer of the Quarter



Staff Sgt. Jared Vanwey Senior Non-Commissioned Officer of the Quarter



2<sup>nd</sup> Lt. Kyle Monsma Honor Guard of the Quar-



**Peggy Proffitt** Civilian of the Quarter Clerical/Technical Support



Kandi Pearson Civilian of the Quarter Administrative

John Garner

Mulligan's Grill

Category II

Quarter

NAF Employee of the



Civilian of the Quarter Scientist/Engineer



**Colin Hennessy** NAF Employee of the Quarter Mulligan's Grill Category I

## Claybrook receives People's Choice Award

John Claybrook, an aerospace Space and Missile Test Branch. engineer with the AEDC Test Opof 2014.

Claybrook, who is a Manches- ting [test] time by 25 percent." ter, Tenn. resident, was recognized testing capabilities for the AEDC ment support for test customers.

The award nomination cited that erations Division, recently received he contributed "flawless test exthe William M. Dunne People's ecution of \$2 million in all space Choice Award for the fourth quarter areas," and "developed a cost estimate tool for space chambers cut-

His abilities were recognized in for his excellent contributions in test planning as well as develop-



## Sexual Assault Prevention Summit offers multiple tactics to prevent sexual assault

By 2<sup>nd</sup> Lt. Esther Willett

Air Force District of Washington Public Affairs

WASHINGTON (AFNS) -Leaders in academia, government, and industry presented cutting-edge research related to sexual violence at the Sexual Assault Prevention Summit on Jan. 13-15 at Joint Base Andrews, Md.

bert Botvin, and Dr. Dorothy Edwards spoke to 150 Airmen about sexual assault prevention models, as well as strategies to overcome prevention barriers and risk factors through life skills and effective bystander intervention and training.

The speakers represent the many leaders and experts who presented current research and perspectives to participants during the five-day summit designed to engage Airmen of varying ranks and career fields in a conversation about sexual assault in the Air Force.

"Sexual violence is a significant public health problem," said Tharp, a health scientist in the Centers for Disease Control and Prevention's Division of Violence Prevention. "It really does have a ripple effect through individual lives and through an entire community."

According to Tharp, a public health approach to sexual teaching self-management, and assault prevention includes de- increasing resilience. fining the problem, identifying

developing effective strategies stress and anxiety, and we proto stop sexual violence before vide them with specific skills," it starts.

Sexual violence and related problem behaviors are the result of the complex interaction of risk factors, such as alcohol and drug use, poor decision making, peer pressure and media influ-Weill Cornell Medical College.

"There is no single cause of Dr. Andra Tharp, Dr. Gil-violence," Tharp emphasized. "It's the confluence of risk factors that causes violence."

> Edwards, the executive di- if Airmen own the process. rector of Green Dot Etcetera are compounded by individual barriers to taking action. Every person has their own personal barriers to overcome, such as shyness or fear.

Successful prevention strat- intrinsic motivation." egies will leverage protective measures, such as emotional health, empathy and connectedness to offset risk factors, Tharp said. Comprehensive approaches will impact individuals to communities for a "surround sound effect."

these external and internal risks taking on too much at once. should be developed to impact by bolstering social skills, those to get things started."

risk and protective factors, and people know how to cope with Assault Prevention Summit.)

Botvin said. "The skills I'm talking about are not taught in any systematic way. All of us kind of blunder through life, learning some of these things if we're lucky."

All the speakers agreed that ence, said Botvin, a Ph.D. at an effective sexual violence prevention strategy will be multi-faceted. There is no single magic bullet that will work. Consequently, each of these strategies will only be effective

"There is no policy, order or said the external risk factors directive that can force an Airman to find some way to step in and do something," Edwards said. "Prevention only works, we're only going to get where we want to be, if we can engage

> Throughout the summit, Airmen took the information from each session and applied it in working groups designed to create tools to help the Air Force prevent sexual assault.

As they tackled the significant issue with lots of new in-Botvin expressed that each formation, Airmen were warned intervention designed to offset against falling into the trap of

"Don't sacrifice depth for attitudes, knowledge and be- breadth," Tharp said. "Choose a haviors. The life skills approach few key risk factors or a few key decreases vulnerability to risks approaches and really invest in

(Editor's Note: This is the final story in a series of three in "We do not assume that recognition of the 2015 Sexual

### **Milestones**



**Dwane Bailey** 

#### 35 YEARS

Dwayne Bailey, ATA William Irby, ATA Ronald McFarlane, ATA Mitch Nolen, ATA Patricia Reynolds, ATA

#### **30 YEARS**

Larry Cunningham, ATA Clement Holt, ATA George Myers, ATA

#### 25 YEARS

Kimberly Luther, ATA Kimberly Marshall, ATA Robin Roberson, ATA Rhonda Uselton, ATA Vicki Vertrees, ATA

#### 20 YEARS

Danny Owens, ATA Timothy Wilson, ATA

#### 15 YEARS

Ronald Eads, ATA Christopher Davis, ATA Christy Melton, Premiere Randy Prince, ATA

#### 10 YEARS

Steven Ardry, ATA Dan Blaylock Jr., ATA William Coppeans, ATA Thomas Dimon, ATA Mark Downs, ATA Michael Farris, ATA



Mitch Nolan

Michaele Hartman, ATA Jacob Holloway, ATA James Landon, ATA Suzanne Luthi, ATA Edward D. Mickle, ATA Melissa Minter, ATA Randall Moon, ATA Dean Mukai, ATA Karen Nicholson, ATA Gerald Norton Jr., ATA Teddy Perry, ATA Adam Plondke, ATA Timothy Scott, ATA James Sweeton, ATA William Tucker, ATA Dusty Vaughn, ATA Ray Warren, ATA

#### **5 YEARS**

Crethton Caldwell, ATA James Grav. ATA Anthony Jimcoily, ATA

#### INBOUND MILITARY

Master Sgt. Matthew Krueger, AF

#### **RETIREMENTS**

Stanley Coppinger, ATA Peggy Glass, ATA Scott Glass, ATA Robert Hall, ATA Carolyn Hill, ATA Dennis Huprich, ATA Leldon Kelley, ATA Danny Patterson, ATA Willie Jo Taylor, AF Richard Zimmerman, ATA John Wohleber III, ATA



**Ron McFarlane** 

#### **NEW HIRES**

Sylvia Armer, ATA Gary Bise, ATA Ryan Bond, ATA Austin Bonds, ATA Clint Bryant, ATA April Candelaria, ATA Chad Cantrell, ATA Casey Culver, ATA Yeshiemebet Dohrmann,

Brett Fetherlin, ATA Bradford Freeze, ATA Jason Hoge, ATA Ethan Jobe, ATA Eddie Lee. ATA Jonathan Lister, AF Michael Malloy, AF Jeffrey Matteson, ATA Tyler McKelvey, NAF Jeremy Miller, ATA Melissa Minter, AF William Nelson, ATA Kristyn Nivins, ATA Nathan Payne, AF Wallace Pruitt, ATA Bobby Rodgers, ATA James Rogers, ATA Rebecca Rought, ATA April Samol, ATA Gregory Smartt, ATA Danny Smartt, ATA David Smith, ATA Matthew Smith, ATA Nathan Tendick, ATA Jonathan Thompson, ATA Albert Velazquez Jr., ATA Matt Witt, ATA



William Irby 35 years, Controls Engineer **ATA Information Tech**nology and Systems Department

What is your most memorable AEDC moment during your years of service?

"I have had opportunities to work in many different areas. The one most memorable was in the mid-1980s. I worked on the activation of the new test facility ASTF. Our team had the challenge of getting the instrumentation system known as the TIS (Test Instrumentation System) up and operational. To give you an idea as to the computer technology in the mid-1980s, each disk drive was about the size of a washing machine. We spent many long hours and late nights troubleshooting problems. This was a challenging but fun and rewarding time."

## AFMC exceeds Air Force small business goals for FY 2014

By Stacey Geiger Air Force Materiel

Command Public Affairs

WRIGHT-PAT-TERSON AIR FORCE Small Business Senior BASE, Ohio – In 2014, Leader and for the first time since Expectation for each 2005, Air Force Materiel Command exceeded its goal for awarding contracts to small businesses. The Fiscal Year of the Air Force small 2014 small business goal was 10.41 percent of contracts awarded, and AFMC achieved 12.03 with budget cuts, and percent, with \$3.7 billion total obligations across awarded to small busi- AFMC were also down nesses.

efforts of senior leaders, small business specialists, and contracting offices in the field, nesses," she said. have contributed to this Business E. Jean Smith.

The AFMC Small Business program ensures that the command

nesses can obtain a fair share of federal contract dollars. Each year, the Air Force Small Business office establishes a Performance command. AFMC managed approximately 65 percent of the Air Force contracts and 46 percent

"Fiscal 2014 started from the previous year. "The hard work and Although total obligations were decreased, we obligated more of that

"Initiatives AFMC success," said out that were signed by January 2014 to ensure

Smith also increased communication industry by providing no-cost outreach events throughout the These events gave the opportunity for the small business program and industry to have candid and open discussions about challenges and what can be done to improve relationships with business prime awards in one another. The events allowed AFMC small business offices to inform industry about requirements and the importance of responding to Requests for Information and Draft Request for Proposals.

"We want to ensure portion to small busi- small businesses are given a fair opportunity," Smith said.

AFMC won the 2012 AFMC Director of Small AFMC Commander Gen. and 2013 Secretary of the Janet Wolfenbarger in Air Force Annual Small Business Award, as well we were maximizing as the 2013 Secretary competition and increas- of the Air Force Small maintains a competitive ing small business op- Business Director's Top edge and that small busi- portunities," Smith said. Major Command award.

#### **Tuskegee Airmen visit** Barksdale AFB



Calvin Spann, a Tuskegee Airman, speaks with Maj. Matthew Millard, right, inside the bomb bay of a B-52H Stratofortress Dec. 27, 2014, during a visit to Barksdale Air Force Base, La. Spann, a former lieutenant in the Army Air Corps, served in Italy during World War II. He was a P-51 Mustang pilot and flew in 26 combat missions. Millard is from the 11th Bomb Squadron. (U.S. Air Force photo/Senior Airman Benjamin Gonsier)

> MY STRENGTH IS FOR DEFENDING **AEDC Victim Advocates Hotline:** (931) 581-7494

Preventing Sexual Assault is part of our duty

Visit: MyDuty.mil





#### South Middle School cheerleaders receive donation from ATA



The cheerleading team at South Middle School receives a donation from the ATA Employee and Community Activities Committee (E&CAC) to help with uniform and equipment costs. Pictured back row, standing: Trinity Lewis, Carly Bean, Aleigh Sherril, Cheerleading Coach Tara Brewer, Brandon Landis (mascot), E&CAC representative Andrea Stevens, Madison Bagget, Alexis Mosley and LK Whitsett. Second row: Madyson Damron, Maddie Cunningham, Jenna Graves, Alexia Finch, Grace Palmertree and Kayleigh Hogan. Third row, seated: Hannah Daniel, Emma Elliott, Jada Graves and Kayla Henley. (Photo by Tina Lindsey)

## **USAF** Marathon to increase price in February

SON AIR FORCE BASE,

**Ohio** – If you're planning on running in the Air Force half are currently \$90 and takes place on the campus Marathon this September, time is running out to take advantage of current pricing. The Marathon staff rise by \$5 on February 2. notes that prices will increase on February 2, 2015.

"We traditionally experience a huge surge in registrations prior to a price increase," said Robert Aguiar, Marathon director. "This year, we've added an additional pricing tier so prices are going up sooner. Previ-

the same until April"

\$80 respectively, while of Wright State University the 10K is 40 and the 5K is \$30. All race prices will

All registered runners receive a tech shirt, towel, patch and goodie bag. Everyone who finishes a race also gets a medal celebrating the featured aircraft, the U-2 Dragon Lady. Medals are presented at the finish line by a senior Air Force

um of the United States Air Prices for the full and Force except the 5K which

> The Air Force Marathon is a Boston Marathon qualifying event and the course goes past a number of historic landmarks including Huffman Prairie, where the Wright Brothers perfected manned flight.

The Air Force Marathon, presented by Northrop Grumman, USAA and Boeing, will be Saturday, Sepofficer. All races begins and tember 19, 2015. The Sports

WRIGHT-PATTER- ously prices have remained end at the National Muse- & Fitness Expo is held at Wright State University's Nutter Center and will be Thursday, September 17, and Friday, September 18. The event will also feature a Gourmet Pasta Dinner and Breakfast of Champions on Friday, September 18. Get more information about the race at www.usafmarathon.

## Practice caution when using social media;

#### Twitter DOs and DONT's

Twitter is a social networking microblogging site whose send and users text-based read posts online.



The site surged to worldwide pop-

ularity with more than 300 million active users as of 2011, generating 300 million tweets and 1.6 billion search queries daily.

"Tweets" are short text-based messages – up to 140 characters - that users post to Twitter. "Tweet" can refer to a post as well or to the act of posting to Twitter. Tweets are public, indexed and searchable unless protected by the user. Many users never Tweet, choosing only to follow persons or topics of interest.

"Hashtags" (#topic) are used to mark a keyword or topic in a Tweet. Posts with hastags are categorized by topics in the Twitter search engine. Hastagged words that become popular become Trending Topics (ex. #jan25, #3gypt, #sxsw).

"Mentions" (@username) are used to tag a user in a Twitter update. When a public user mentions a private Twitter account, the link to the private account profile becomes public.

Twitter best practices include:

- Avoid using hastags (#) in updates to avoid being indexed and associated with a topic by Twitter Search.
- Tweet responsibly. Do not provide personal details regarding your whereabouts and activities in your post.
- Do not upload links to personal photos or websites on Twitter.
- Do not allow Twitter to use your location on mobile devices.
- Change your Twitter username periodically to limit account exposure.

## Lessons learned in protecting social media accounts

By Brig. Gen. Kathleen

Cook Office of the Secretary of

the Air Force

WASHINGTON (AFNS) – On a Saturday afternoon in late November, I was informed about a political remark that appeared on my Director of Public Affairs Twitter feed. A staff member called to ask if I was aware of the retweet. At the time, I was on leave, out of the state, tending to my daughter who had had surgery the day before. I was unaware of the retweet and when told of its substance. I arranged for a member of my staff to

As far as how a tweet was unknowingly re-tweeted from my organizational

remove the tweet from the

account, we do not have a definitive answer. I realize this response may be unfulfilling to some, but it's the truth. That said, as the owner of the account, I accept responsibility for its content.

What is clear is we've learned several lessons about protecting the security of social media accounts. Granted the lessons aren't new, but it's my hope that by highlighting them just one more time, others might avoid similar inci-

• If you assume an organizational/positional account from a pretrators are necessary.

- Make sure your password is difficult and not predictable.
- If others post on your behalf, consider having them include their initials behind their input.
- Never store passwords on a shared drive.
- Always log out and lock your device before walking away, putting it down, or tossing it in your pocket or purse.

In the end, what I know to be true is that the account belongs to me and I accept responsibility for it. I've decessor, change the applied the lessons above password. Also, find to safeguard both my perout who else has/had sonal and professional acaccess and determine counts and encourage evif additional adminis- ery Airman reading this to do the same.