LIS POSTAGE PAID TULLAHOMATN June 9, 2014 Vol. 61, No. 11 Arnold AFB, Tenn.

### Large Model Wings Level Yaw capability to be available soon at AEDC

By Deidre Ortiz

ATA Public Affairs

AEDC engineers are presently working on a multimillion dollar fast-track design and build effort for the 16foot transonic wind tunnel Level Yaw (WLY).

It's likely that the new

ers by the end of 2014.

accelerated effort.

WLY capability will be avail- [generated by] some of the tor. By rolling the two roll able to AEDC's test custom- new aircraft being tested," mechanisms approximately he said. "We have used the the same amount in opposite Marvin Sellers, flight existing WLY for all of the directions and adjusting the systems senior engineer, ex- Global Hawk tests performed plained the reason behind this at AEDC with great success. The WLY system uses a sec-"The current WLY capa- ond roll mechanism offset called Large Model Wings bility, built in the mid-1980s, by a prebend from the pri- with larger load requirements does not have sufficient ca- mary roll mechanism, which pacity to handle the loads is installed on the pitch sec-

pitch sector, the model yaws while keeping the wings level to the floor."

Sellers noted that test articles

See WINGS, page 2

# Cmdr. Allen retires with 29 years of service in the U.S. Navy



ment ceremony recently held at the AEDC Arnold Lakeside Center. This tradition is performed during a Navy retirement ceremony. (Photo by Rick Goodfriend)

By Raquel March

ATA Public Affairs

Family, friends and coworkers recently gathered at a retirement ceremony for Cmdr. Brian Allen, with the U.S. Navy and the AEDC Test Support Division (TSD) director of operations, to wish him well in his future endeavors.

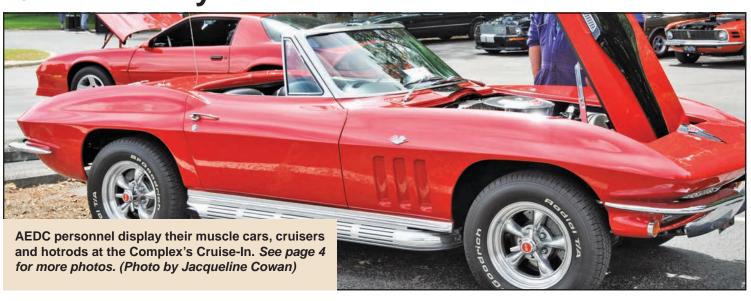
The ceremony was attended by his wife Sherri, son Brennan, daughter Kaisey, father Michael, mother Kathy, brother Mike and sister Lori Rausch.

The Ohio native shares his thoughts about the

See ALLEN, page 3

Cmdr. Brian Allen (right), with the U.S. Navy and the AEDC Test Support Division director of operations, receives a letter for best wishes from former President George W. Bush during his retirement ceremony presented by Capt. Sam "Pappy" Paparo, Allen's close personal friend and who served as the retiring officer. (Photo by Rick Good-

### 'Cruise-In' style



U.S. Air Force Chief Scientist set to speak at AEDC **Fellows** Banquet



Dr. Mica Endsley

By Raquel March ATA Public Affairs

The 2014 AEDC Fellows Banquet will be at the Arnold Lakeside Center on June 25 at 5:30 p.m. where U.S. Air Force Chief Scientist Dr. Mica Endsley will be the

The event is an opportunity to recognize AEDC individuals, past and present, who have made exceptional substantial contributions to the nation's aerospace ground testing capability at the Complex.

Endsley serves as the first female chief scientific adviser to the Chief of Staff and Secretary of the Air Force. She provides assessments on a wide range of scientific and technical issues affecting the Air Force mission.

In her role she identifies and analyzes technical issues bringing them to the attention of Air Force leaders. She also interacts with other Air Staff principals, operational commanders, combatant commands, acquisition and science and technology communities to address crossorganization technical issues and solutions.

Endsley's research focuses on the design, development and evaluation of systems to support human situation awareness and decision making in aviation, air traffic control, space, cyber, military command and control, medical and power systems opera-

AEDC Commander Col. Raymond Toth recognizes Dr. Heard Lowry III and Michael Mills as 2014 AEDC Fellows. Ross Roepke and John Sutton are recognized as 2014 **AEDC Lifetime Achievement** Fellows.





**American Red Cross Bloodmobile at AEDC**, **June 10-13** 

...Page 3

### 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

### **Critical Days of Summer Campaign begins**

start of the 2014 Critical Air Force personnel. Days of summer campaign, themed Double Checks, Not Second Thoughts.

The Memorial Day holi- of the Air Force James Cody day weekend was the official issued a memorandum to all

the mission when we com-This year's campaign is Integrity First, Service Be- your family and friends, a reminder of your respon- fore Self, and Excellence In use what you have learned and your wingmen this Air Force Leadership, sibility to be a good wing- All We Do. Taking respon- about risk management. summer to ensure our mis-Secretary of the Air Force man, on and off duty - take sibility for your safety is Plan for the unexpected Deborah James, Air Force care of yourself and your part of that commitment. and avoid unnecessary Chief of Staff Mark Welsh III teammates, and always be You must take pride in do-risks. Embrace safety as ber: Double Checks, Not and Chief Master Sergeant prepared to fly, fight and ing the job right. When you the foundation of our core Second Thoughts!

We safely accomplish do things the safe way.

As you participate in mit to our core values of summer activities with

do things the right way, you values. Enjoy the warm weather; get out and have fun, but always keep safety in mind.

> Take care of yourself sion success. Have fun while off duty, and remem-

#### **WINGS**

from page 1

needed to use the primary support system which includes the pitch sector and primary roll mechanism.

"Yaw angles achieved by pitching and rolling the model to obtain the correct orientation relative to the wind," he said. "This requires more roll movement than when using the WLY mechanism and takes a small amount of additional time to set model attitudes. But our advanced control capabilities have allowed data to be acquired in a continuous sweep fashion for many years using this pitch/roll technique."

A discovery made during a study on the first Global Hawk test that high-aspect ratio wings (large wing span) experience flow variations as a model is rolled in the wind tunnel.

"Data acquired with WLY were compared with pitch/roll combination and indicated the wings were experiencing non-uniform flow in the corners of the tunnel as the model was rolled," Sellers said. "Although corrections could be applied to the pitch/roll data to minimize the efcould not be removed."

All of the Global Hawk test data was acquired with the WLY technique. New aircraft By Tech. Sgt. with large wing spans and high aerodynamic loads needed to use the WLY technique but haven't been able to because of limits with the (AFNS)-Have you set goals current mechanism.

"The new large model WLY capability will provide improvements in data quality and productivity for AEDC's customers," Sellers said.

In addition, the yaw range for WLY will be increased from 15 to 16 degrees, and the capacity of the new WLY will be doubled with the possibility to increase rollmoment capacity by almost three times.



### Driving

Buckle up... properly! Bottom strap across hips and shoulder strap across

www.christopherreeve.org

- Do not be distracted by other passengers, motorists, cell phones, radio, etc. Stay focused!
- Obey car and booster seat guidelines.

### Swimming and diving

- Do not dive in less than nine feet
- No board, no diving!

### Personal watercrafts

 Be watchful, defensive, obey speeds, and keep your distance.

### Body boarding Hold board so it extends past head.

General Water Safety

### No re-dos; do not combine alcohol

- and water-related activities!
- Be aware of sandbars.
- Feet-first entry.

### Bicycle Riding

- Wear a helmet... properly! A helmet should be worn snug, fitted, and level.
- Replace helmet after three to five years

and/or if cracked.

fect, the complete effect (Courtesy of Wingman Toolkit)

SOUTHWEST ASIA

### Goals: How many of us have them?

**DeErick Gray** 387th Air Expeditionary

for your future? According to dictionary.com, "a goal is the

result or achievement toward which effort is directed." Goals can be short or longterm, personal, professional, spiritual or physical, and are usually specific to a person or group. According to Dr. Gail Matthews, a psychology professor at Dominican University in California, you are 42 percent more likely to reach a goal by writing it down. In short, a goal that is not writ-

ten down is just a thought.

professional development, became debt free and most importantly, effectively managed my time. I achieved more on my third deploy-

specific, measurable, attainable, realistic and timely, or S.M.A.R.T. A specific goal On my first and second has a greater chance of be-

deployments I had no strat- ing accomplished and alegy for setting goals. For my lows for strategic planning. A third deployment, I bought measurable goal establishes a journal and wrote down concrete criteria for measurmy goals and plans to make ing progress toward the atthem a reality. As a result, I tainment of each goal set. completed three online col- You should set milestones lege courses and earned two to track progress and make Community College of the corrections as needed. To en-Air Force degrees. I also sure goals are attainable, you completed several hours of must figure out the best route to take to achieve your goals. The Professional Development Guide describes this as the planning phase. You are the best person to determine ment than my first two com- if a goal is realistic based on your abilities. For instance, When setting goals, you a goal of losing 50 pounds must make sure they are in 30 days is not realistic. To ensure your goal is timely, have a reasonable completion date and adhere to the checkpoints set. If these steps are skipped, you will easily get off track.

As the individual setting the goal, you should also make sure that it is known to people who can assist in achievement. For example, if your goal is to make senior airman below the zone, it is the finish line.

probably a good idea to let your supervisor know your intentions. Making your goal known shows your motivation to live the core value of excellence. Can you really be "excellent in all you do," if you do not set goals to become excellent? Also, setting and achieving goals gives you confidence to set greater milestones and achieve them.

Setting goals is an important aspect of life that has been proven time and time again. My current goal is to earn my bachelor's degree in accounting by 2016. One of the milestones I set was the completion of four classes during this deployment. I am well on the way to accomplishing that milestone. Knowing my strengths and weaknesses has made accomplishing this easier. It is never too late in life or on a deployment to set goals. So again I pose the question, "How many of you have goals?" We all have to start somewhere; I will see you at

### **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 AEDC web portal at https://papro.arnold. af.mil/PORTAL/images/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.

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 violations.

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**

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**

### **Red Cross** blood drive begins June 10-13 at AEDC

**By Raquel March** ATA Public Affairs

AEDC employees will have an opportunity to donate blood with the American Red Cross during a blood drive June 10-13 at 11 a.m. -4 p.m.

The Red Cross provides a convenient method for donating blood using a bloodmobile, a mobile blood collection lab.

The bloodmobile will move to a different location each day while stationed at AEDC.

The dates and corresponding locations are: June 10 - the Propulsion Wind Tunnel office, building 740; June 11 – the Administration and Engineering, building 100; June 12 – The von Karman Gas Dynamics Facility, building 676; June 13 - the Main Auditorium, building 452. Employees may donate at the multiple locations during work hours with approval from their supervisor.

To be eligible to donate, you must be at least 17 years old (16 years old with parental consent), weigh at least 110 pounds and be in good health. The process usually takes about 30 minutes and includes a complimentary snack and T-shirt. Donors are asked to drink plenty of fluids - avoiding caffeine - and eat a meal that is rich in iron prior to donating. Bring identification in the form of a donor card or driver's li-

The Red Cross Tennessee Valley Blood Services Region serves nearly 60 hospitals in Tennessee, Western Kentucky, Southern Illinois and parts of Missouri. They 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.

For more AEDC blood donation guidelines and information, call 454-5387.

# **Testing and Evaluation Course** valuable to AEDC, its customers

By Deidre Ortiz

ATA Public Affairs

The Aeropropulsion Test and Evaluation (T&E) Short Course that AEDC has been hosting since 2011 is beneficial to the Complex and its customers.

For one, Aeropropulsion Test Branch Deputy Director Mike Dent said the course has "paid great dividends" in helping AEDC to build customers.

program managers, engine model engineers and managers, Air Force Research Laboratory test engineers, Navy and Army testers and others.

Engineers and program managers with the System Tinker Air Force Base participated in the most recent T&E course held May 6-8.

The three-day strong partnerships with its course was developed in an a semiannual basis to the Air overview of the fundamental veys that they're grateful call 454-3826.

weapon systems.

During the course, par-Programs Office (SPO) and ticipants receive a mix of the experts and capabilities including the high bay, test or her course evaluation. cells and control rooms.

Force Life Cycle Manage- role and technical elements for the opportunity. Even ment Center engineers and of turbine engine ground test those without a background and evaluation. It's aimed in ground testing say they at educating the customer were able to comprehend the about the Complex's signifi- information provided and cant role in developing, sus- gain a better understanding taining and improving their of why ground testing is important.

> "The best part was seeing classroom training as well that AEDC possesses," one as worksite visits on base recent participant said in his

The next T&E Short Past participants of the Course is scheduled tentaeffort to provide AEDC's course have commented tively for November 2014. The course is offered on external customers with an through anonymous sur- For more course information

### AEDC's Stokes retires from U.S. Air Force



Tech. Sgt. Jennifer Stokes received her Certificate of Retirement from AEDC Commander Col. Raymond Toth at a recent retirement ceremony. Stokes retired early with 16 years of service in the U.S. Air Force. She was the AEDC noncommissioned officer in charge of out-patient services and an independent duty medical technician. (Photo by Jacqueline

# Eglin AFB F-35s surpass 5,000 combined sorties

By 1st Lt. Hope Cronin 33rd Fighter Wing Public Affairs

EGLIN AIR FORCE BASE, Fla. (AFNS) The 33rd Fighter Wing etched another mark on the F-35 Lightning II joint strike fighter program by logging its 5,000th combined sortie, May 28.

The F-35 Integrated Training Center, or ITC, flies a third of all the sorties in the Department of Defense program. More than 15,000 sorties have been flown across all variants of the fifth generation multirole stealth fighter.

"Our team knows they are leading the way in putting the F-35 through its paces and developing the cadre that will establish the F-35's role in air dominance," said Col. Todd Canterbury, the 33rd FW commander. "The men and women here advance the ball down the line every day, and we see that in the number of sorties generated and students trained.'

The maturity of the F-35 program at Eglin AFB was echoed this week, he said.

Also this week, the 58th Fighter Squadron welcomed its 26th and final F-35A delivery, scheduled in the current environmental impact study.

The F-35 ITC is responsible for F-35 A/B/C Lightning II pilot and maintainer training for the Marine Corps, the Navy, the Air Force and, in the future, at least eight international partners.



A Navy F-35C, a Marine Corps F-35B, and an Air Force F-35A Lightning II participate in a training sortie together May 21 near Eglin Air Force Base, Fla. The F-35 Integrated Training Center at Eglin AFB surpassed 5,000 combined training sorties May 28 contributing more than a third of all sorties in the Department of Defense's F-35 program. All three variants of the fifth generation multirole stealth fighter are hosted by the 33rd Fighter Wing here. The F-35 is designed with the stealth, electronic warfare, and multi-spectral fused sensor capabilities, which will increase lethality and survivability in a contested environment. (U.S. Air Force photo/Staff Sgt. Joely M. Santiago)

### ALLEN from page 1

a glimpse of his journey to AEDC and beyond.

*High Mach:* What were your thoughts about the area when you arrived here?

Cmdr. Brian Allen: am not from the area or even Tennessee. I am originally from Ohio. My

AEDC area and provides Executive Officer of the worked here for the last 4 the role of Director of Op-Vanderbilt NROTC Unit years. so I was already settled did not know a lot about did your mission involve? by the surrounding area of years. After that, I moved duty station prior to com- AEDC and especially the over to the Test Support Diing to AEDC was as the people I got to know as I vision and basically filled

in the Nashville area be- *HM*: When did you report fore reporting to AEDC. I to work at AEDC and what AEDC when I showed up, Allen: I reported to AEDC HM: How will you remembut [I] did have some idea on June 1, 2010 and was of where it was and what made the deputy of the Test type of work went on Division under Col. Jim there. I am very impressed Jolliffe and did that for two

erations. This role mainly involved advocating for the Test Support Division's scheduling needs.

ber the relationships you have developed here – business, personal, community? met so many outstanding government and contractor are many more quality peo-

side of the house. The leadership on the government side and the ATA leadership has been great and I have really made some dear friends in TSD whom I plan to keep in touch with as I go about the next stage of my life. People like Alan Fleenor, Jan Hollowell, Clark Allen: Very fondly! I have Brandon and Amanda Curbow are names that come to people here both on the mind right away. But there

ple I could mention; I just don't have enough room.

*HM:* What are your retirement plans?

Allen: I wish I could say fishing and watching sports but I will be looking for another challenge there somewhere and who knows, if the "Lord is willing and the creek don't rise" I may be back at AEDC in a civilian role.

# Cruise-In style



(Photos by Jacqueline Cowan)

By Deidre Ortiz

ATA Public Affairs

hotrods at the Complex's display allowed personnel to showcase their cars as well as participate in demonstrations and tours.

Though organizers Chevy. were concerned the threat

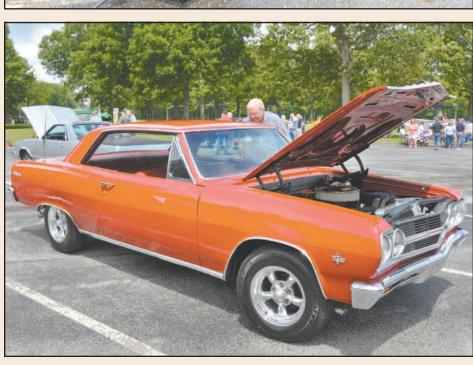
Hawkins with his 1957 play.

On behalf of those who of thunder storms would planned this year's Cruise-AEDC personnel and impact the event, fortu- In, Ralph Jones said he their families viewed nately it ended up being a appreciated everyone's muscle cars, cruisers and beautiful day for the event. participation and gave a Two participants tied special thanks to Ricky 2014 Cruise-In last month. for 2014 People's Choice Bobby's Hot Rod Shop The third annual lunch-time winners, they are AEDC and Hawks Hardware employee Mike Hodges Speed Shop, both located with his 1963 Ford F100 in Manchester, for bringand ATA retiree Wayne ing their 'Rat Rod' for dis-















# Eglin welcomes final F-35A

By 1st Lt. Hope Cronin 33rd Fighter Wing Public **Affairs** 

EGLIN AIR FORCE BASE, Fla. (AFNS) – The 58th Fighter Squadron became the Air Force's first complete F-35A Lightning II squadron after 14, 2011. they welcomed their 26th the 33rd Fighter Wing.

58th FS pilot, ferried the pilots swell to 100 since aircraft, AF-45, from Lockheed Martin's F-35 production center in Fort in October 2009. Half of Worth, Texas.

"We've been in a growth mindset for the last on refining our processes few years," said Lt. Col. and training, improving Matt Renbarger, the 58th our tactics, and really op-FS commander. "We've timizing our overall probeen focused on adaptthe availability of aircraft as a growing squadron. It's been exciting to see barger. this mission develop, but we're more excited to di- livered is more capable Initial Production blocks al-in all of our attention to than the first F-35A de- produced at Lockheed training our team."

to be stationed at the wing marked a shift in priorities for the 58th FS and 58th Aircraft Maintenance Unit. Both units experienced a series of transitions and accomplishments since the arrival of the first F-35A here July

Renbarger was trained and final F-35A May 28 at in the initial cadre of F-35 instructor pilots. He wit-Maj. Scott Charlton, nessed the number of JSF the F-35 training mission was first established here those pilots are Air Force.

"We are focusing now gram to meet the needs concurrency model exe- Block 2A software and bility in 2016," said Col. F-35 program at a faster

The arrival of the last as a result of the F-35 tory in Fort Worth. Air Force joint strike program's concurrency



An F-35A Lightning II taxis across the flightline on Eglin Air Force Base, May 28. The Air Force welcomed its first full F-35A joint strike fighter training squadron with the arrival of the 26th and final jet assigned to the 33rd Fighter Wing. (U.S. Air Force photo/Senior Airman Christopher Callaway)

The last F-35A de- into subsequent Low Rate

better than I expected I

mander took notice and

accident that should have

been fatal, is testament to

group com-

flying this soon, after an greatest Air Force."

her hard work, determina- an instructor once again.

would."

initiative.

Jones'

ing our training levels to of the Air Force as our cutes testing, training and upgrades, including the Todd Canterbury, 33rd rate than ever before." Airmen move out to other development simultane- use of simulated weap- FW commander. "The feedback from each area and Instrument Meteoro- establishing the foundalogical Conditions flight tion for all F-35A training capabilities.

livered three years ago Martin's mile-long fac- 45 is an incredible mile- our pilots and maintainstone for the Air Force as ers more flexibility in Renbarger highlighted we move closer to F-35A training, and that flexfighter variant scheduled development model. The that AF-45 arrived with Initial Operational Capa- ibility lets us advance the

Jones' next step is pre-

operations. Having our "The arrival of AF- full end-strength grants

The 33rd FW is home F-35 missions," said Ren- ously and incorporates ons, datalinks, and night men and women here are to the F-35 Integrated Training Center responsible for F-35 A/B/C Lightning II pilot and maintainer training for the Marine Corps, the Navy, the Air Force and, in the future, at least eight international partners.

# After high way crash, instructor pilot flies again



First Lt. Laura Jones poses for a photo after preparing for a flight April 21 at Laughlin Air Force Base, Texas. Jones was involved in an automobile accident Jan. 2 that kept her from flying for three months. Jones is a 85th Flying Training Squadron T-6A Texan II instructor pilot, (U.S. Air Force photo/ Airman 1st Class Jimmie D. Pike)

By Airman 1st Class

Jimmie Pike 47th Flying Training Wing

Public Affairs

**LAUGHLIN** FORCE BASE, Texas (AFNS) – Her career seemed ruined, her dreams lowed by 11 days in the grounded.

"At the beginning, I thought I'd never fly again," said 1st Lt. Laura Jones, when she recalled basic range of motion her Jan. 2 accident.

Antonio International Airport back to base, a car next to her had a tire blow out. The driver lost control and swerved into Jones's vehicle travelling at about 75 mph, she said.

"Shortly after, a passing National Guardsman and bones." arrived, held my neck to immobilize and keep me from damaging my cervical spine and talked to me until the paramedics arrived," said Jones, a T-6 Texan instructor pilot from the 85th Flying Training Squadron. "It all happened pretty quickly, from getting hit to the helicopter taking me to San Antonio Military Medical Center, only a couple of it would take so long. Afhours had passed. I maintained consciousness the quickly I knew I could fly entire time."

Jones suffered multiple breaks and injuries during dedication in physical the collision – injuries that grounded her flying career.

"The accident left me with a shattered left femur, lacerations on my kidney and spleen, my right wrist was broken in four places, I knocked off a lot of rust

two places, and my lungs were bruised, among other scrapes," Jones said. "After I heard there were no neck, spine or eye injuries, **AIR** I knew I would be flying soon enough."

The accident was folhospital and several grueling months of physical therapy and rehabilitation.

"We started her with exercises to work up to On her way from San light weights and ensure she didn't overwork herself," said Kira Pie, a local physical therapy assistant. "We now have her going through impact workouts, like skipping, to get her body adjusted to the feel of pressure on the joints

> Even though her body was aching and her workouts were strenuous, she worked through the difficulties with a single goal: to return to flying.

> "My main concern was when I would be able fly again," Jones said. "When I talked to the flight doctors, they said I'd be shooting to fly again in June. I was bummed that ter I started progressing so sooner."

> Jones' hard work and therapy paid off when she had her first flight since the accident, April 21, and felt as if things had gone

"The flight went great, my jaw was broken in and have my confidence

back," Jones said. "I felt tion and desire to fly," said "I'm hoping to be back worked so hard in the first Col. Timothy MacGregor, flying with students in the the 47th Operations Group next week," Jones said. commander. "She belongs "The only obstacle at this who always knew they here as a first assignment point is coming off a four commended Jones for her instructor pilot to teach the month break and getting students what it means to proficient in every maneu-"The fact that she is be a pilot in the world's ver so I can be the best in-

> structor possible." As Jones works toward paring to take the reins as instructing again, she remembers why she has

place.

"I was one of the kids wanted to be a pilot," said Jones. "I grew up around Air Force jets, I knew that's where I belonged. Now I'm looking forward to being one of the Tigers again. This is the best squadron I could ask for."

# Morris Ferry Dock receives hydrant: Fire Departments join in activation

By Deidre Ortiz

ATA Public Affairs

Members of the AEDC Fire Department and the Capitol Hill Fire Department joined their efforts in activating a new dry hydrant at the Morris Ferry

James Evans, assistant Fire Department, stated acquiring this hydrant at Morris Ferry Dock has been a work in progress and both departments are proud that it's now installed.

"About a year ago Capitol Hill's fire chief and Arnold AFB Fire Inspector Steve Macon saw a need for a dry hydrant to supply water to the Morris Ferry Dock area in the event of a fire," Evans said. "After working with several base officials, the hydrant was installed [a few months] ago."

Though the dry hydrant at Morris Ferry Dock has been set up and ready to go, the weather had not allowed the fire departments to test the hydrant until recently.

On May 16 members of the Capitol Hill and Arnold fire departments met to, according to Evans, "put [the hydrant] through its maiden voyage."

And while they don't work together daily, this occasion is far from the first time that the Arnold Fire Department has teamed up with Capitol Hill's firefighters.

Arnold Deputy Fire Chief Daryl Vancise explained Capitol Hill Fire

Department is one of the base's valued and trusted Mutual Aid (MA) partners.

"Our MA agreement with Capitol Hill allows us to support their emergency responses when necessary and provides an avenue of additional resources for us as well," he said.

Vancise added that the fire chief of the Arnold AFB dry hydrant they worked to get will be greatly beneficial to the area and to fire personnel in the event of a fire there.

> "This hydrant will allow fire apparatus to refill their water tanks during emergencies," he said. "Hydrants are scarce in that area so having access to water from the lake will increase the chance for successful fire operations."

> The dry hydrant itself is a unique type of hydrant which pulls water from an existing water source. Dry hydrant systems are generally non-pressurized and are designed for use in a drafting application. The installation of these systems on alternate water supplies can provide year-round water sources for fire suppression. Installed in strategic areas, five or more dry hydrants often become a main water supply system for rural fire departments where pressurized systems are not available or where lines are too small to support needed fire flows. However, they can also be used to supplement pressurized systems in municipal areas where low water pressure exists or where back-up systems are desirable for emergency preparedness.



Members of the Capitol Hill and Arnold Air Force Base fire departments work together to perform a first draft of the dry hydrant installed at Morris Ferry Dock. Pictured in the first photo are Capitol Hill fire personnel hooking the fire truck up to the dry hydrant. As seen in the second photo, the fire hose successfully sprays water from the lake. Pictured in the last photo are AEDC fire personnel Odell Crutchfield (left) and Billy King (right) assisting in detaching equipment from the truck. (Photos by Jacqueline Cowan)





# Wounded warrior finds new place in the AF family



Retired Staff Sgt. Daniel Crane draws an arrow back using a mouthpiece during the Air Force Trials April 10 at Nellis Air Force Base, Nev. After a gunshot wound left his right forearm and hand immobile, Crane immersed himself in adaptive sports, where he has learned new ways to overcome his limitations. (U.S. Air Force photo/Senior Airman Jette Carr)

By Senior Airman Jette Carr

Air Force News Service

FORT GEORGE G. MEADE, Md. (AFNS) – Faith and trust in what we cannot see.

Those words are etched into his skin, right above a scar that, by itself, embodies the journey he has undertaken. The spider web of never met, a stranger up the inside of his right arm and continues nearly to his wrist, following the path doctors took as they rushed to save his life and limb.

Retired Staff Sgt. Daniel Crane, a former security forces Airman stationed at Andersen Air Force Base, Guam, said he saw the phrase after his injury and it just stuck with him. In July 2013, one year after he had been shot in a random act of violence, he made those words a permanent expression on his body.

"I got this quote because of my whole incident and what I'm going through now," Crane said. "The path I was given might not be the path I wanted or saw myself doing, but I try not to question it. I've got to believe that it's for the greater good and just have faith that in time I'll understand what the that it was actually real, damaged limb, his curpurpose is."

Currently participating in the Air Force Wounded Warrior program as an athlete and mentor, Crane hopes that telling his story will help others who are strug- yell for help, and that's this point," Crane said. gling through similar tri- probably the most help-

"I just want them to I've ever been." keep pushing forward; stopped me."

pink lines starts midway who happened to be the gate unable to move and me right. I just knew Through the adapwas visiting off base in said he thought that was once I joined, I realized by the program, Crane's Guam. Though he was it, that no one was going I wanted to do so much eyes have been opened later told the man had a to come and he was gohistory of run-ins with ing to die. Luckily, his erhood. I love the cama- to overcome his limitamilitary members, at the friend heard the commotime of his attack, Crane tion and ran out to help. said he was unaware of the grudge that had been throughout the

house next door. down his windows. He ing down. glanced to the right and watched as a car passed saw the blast and heard the crack of a gun being

"At the time when he shot me, I didn't real- through a total of eight will also be furthering his ize he'd done it," Crane surgeries,

I tried to get out of my rent prognosis is comcar and to my buddy's plete nerve damage, house," he said. "But I paralyzing his hand and got to the gate and from forearm. the amount of blood I'd lost, I just couldn't move very slowly, so it's still Air Force Wounded War-

The anti-military lodon't let whatever hap- cal used either a shotgun pened to them stop them or high caliber rifle in his regulations, but said he basically as a link befrom being who they drive-by shooting. The still feels a connection tween athletes and coachare," he said. "It hasn't blast impacted Crane's with the Air Force. right arm, struck the The night of July 28, brachial artery, severed ed in the Air Force for riences and help others 2012, Crane was ac- the nerves, shredded the 30 years," Crane said. to realize their potential,

Awake and aware entire to the hospital, Crane Ready to head home remembers telling his after his visit, Crane said buddy to tie a tourniquet goodbye to his buddy around his arm. He said around midnight and he couldn't see much walked to his car. After because of the darkness, his two dogs got settled but recalls the smell of rity forces Airman start- and feeling the sensation ed the engine and rolled that the world was slow-

The injured staff sergeant underwent initial by. That's when Crane surgery at the naval hospital in Guam and, once stabilized, was medically evacuated to Hawaii.

Though he went including "So, when I realized some function in his

"Nerves

due to his injury. He now sports a beard and his hair is no longer within

As he stood by the I knew, and he raised being active." more. I loved the broth- to methods of adapting raderie, and what I was a tions, something he said part of. It was the biggest he hopes others are able thing to me. It still is."

When telling the story and matter-of-fact manner, but when he delves into having to hang up his combat boots, his voice begins to waver.

For Crane, a career in the back seat, the secu- gun powder and blood, in the Air Force was his dream, and it's one he hopes to continue in the future, he said.

Until then, he plans to go to school for animal psychology, with the goal of rehabilitating and training dogs – perhaps even training dogs for wounded warriors. He participation in the Air nerve grafting to restore Force Wounded Warrior program and he was recently selected as one of the athletes to compete in the Warrior and Invictus Games this fall.

Recently, Crane regenerate joined the newly formed anymore. So I tried to just a waiting game at rior Recovering Airmen

Mentorship Program, Airmen.

"As a veteran to the program, you are there es," he said. "You relate "My dad was enlist- through your own expe-

to experience.

Being surrounded by steadily building in the ordeal, from the shot of his shooting, Crane is other wounded warriors able to speak in a calm has helped him in this

"They have inspired Crane retired from which encourages the me not to give up," he less and the most scared the military in February, idea of Airmen helping said. "There was definitely a time where I didn't want to do anything, but after meeting these guys who are pushing through and they have worse injuries than me -- it has motivated me to get out of my comfort zone and back to my love costed by someone he'd muscle and struck bone. "That's definitely what along with the benefits of of competition and being athletic."

neighbor of a friend he shouting for help, Crane that was my calling, and tive sports camps hosted his side, Crane continues to break his boundaries as he trains to represent his Air Force teams in the two upcoming competitions. He said he looks forward to competing against and supporting his fellow wounded warriors as they all push each other toward the next level of recovery.

# Milestones



**Phil Medley** 



Bob Schwer ATA Test Assets and Support, Section Manager, 35 years

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

"While at the Gossick Leadership Center on

Sept. 11, 2001, we got word that planes crashed into the New York Trade Center towers. I immediately reported to what was known as the "battle staff" in the A&E building. All my prior battle staff experiences were training exercises and preparation. This was a real world event. I was able to play a small part and witness the AF leadership engage. We stayed late into the night and when released, it was eerily calm and quiet outside. Most activities were shut down, and flights were grounded. I was anxious to get home to my family since we were still uncertain about what else may happen."

**45 YEARS**Phillip Medley, ATA

### 35 YEARS

Rick Gamble, ATA
Douglas Hodges, ATA
Thomas McCoy, ATA
Joseph Migliaccio, ATA
Terry Riddle, ATA
Robert Schwer, ATA
Gary Storey, ATA
Teresa Wilhite, ATA
Curtis Winstead, ATA
Aaron Yates, ATA

### 30 YEARS

Ricky Burger, ATA Deborah Davenport, ATA Mark Duke, ATA David Ehemann, ATA Martha Leeser, ATA Robert McAmis, ATA James Waggoner Sr., ATA



Rick Gamble
ATA Integrated Test
and Evaluation, Space
and Missile Product
Branch, 35 years

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

"The most heart-pounding is experiencing an APTU run for a scramjet test article at Mach 6. You can feel the facility as much as see and hear it. Butane, LOX [liquid oxygen], hydrogen, superheated JP-7 fuel and lots of high pressure air all come together to generate an extreme test environment."

#### 25 YEARS

Charles Bryant, ATA Ricky Bush, ATA James Janssen, ATA Gary Johnson, ATA Bruce Lewis, ATA Roy Thompson, ATA Leisa West, ATA Robert Weiten, ATA

#### 20 YEARS

Hunter Beavers, ATA Loraine McElroy, ATA

### 15 YEARS Bradley Panter ATA

Bradley Panter, ATA

#### 10 YEARS

Tracey Akpan, AF
Patricia Lynch, ATA
Donald Miller Jr., ATA
Patty Nunley, Premiere
Patti Prater, Premiere
Scott Prince, ATA
Joseph Wehrmeyer,
ATA

#### **5 YEARS**

Quitman Alexander, ATA Trenton Bussell, ATA Charles Cook, ATA Lauana Konyndyk. ATA

#### INBOUND MILI-TARY

Capt. Michael Saltzman, AF

### OUTBOUND MILITARY

Capt. Sarah Kress, AF Capt. Brett Ramnarine,

### RETIREMENTS

Thaddeusz Kaczorek, ATA

### NEW HIRES

Justin Anchanattu, ATA Jonathan Carroll, AF Keith Crosier, ATA Jonathon Duke, ATA Adam Fanning, AF Kendall Hampton, ATA Gary Horn Jr., ATA William Keith Jr., ATA Joshua Lankford, ATA Keri McBee, ATA Brian Meverden, AF Richard Roberts, AF Lee Smith, AF Angela Teesdale, AF Jon Paul Wallace, AF Isaac Welch Jr., ATA

#### PROMOTIONS

1st Lt. Joseph Achenbach Andrew Alexander, ATA Belinda Alexander, ATA Quitman Alexander, ATA Lester Bates, ATA William Burt, ATA

Peter Cento, ATA David Claudio, ATA 1st Lt. Stuart Coston Sarah Cothran, ATA Derick Daniel, ATA Valerie Davenport, ATA James Dotson, ATA Michael Eppinger, ATA Marcus Golden, ATA Muriel Harter, ATA 1<sup>st</sup> Lt. Benjamin Hoff James King, ATA Jason Klepper. ATA Phyllis Lafferty, ATA James Link II, ATA Capt. Paul Malone James Masters, ATA Alan Milhoan, ATA Shelby Moorman, ATA 1<sup>st</sup> Lt. Michael Parmen-

Tony Pederson, ATA Cindy Prebola, ATA Sherry Ramanathan, ATA Orlan Richards, ATA

ATA
Orlan Richards, ATA
Christopher Robinson
ATA

Christopher Robinson, ATA Charles Rose, ATA Marvin Sellers, ATA Robert Smith, ATA Debra Stacey, ATA 1st Lt. Julie Sung Shannon Tibbals, ATA Kimberly Vanzant, ATA Jerry Washington, ATA Leisa West, ATA Scott Wieland, ATA Jared Wrather, ATA Jacky Young, ATA

### Phil Medley reflects on his past 45 years at AEDC

By Deidre Ortiz

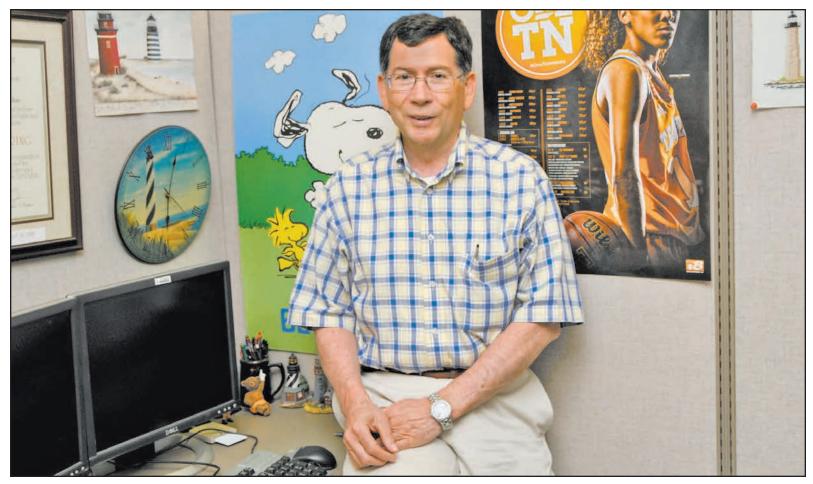
ATA Public Affairs

Phillip Medley started his career at AEDC right after graduating from Tennessee Tech University in

Forty-five years later, Medley, who now works as the Test Measurement and Diagnostic Equipment (TMDE) technical lead, remembers his interview like it was yesterday, commenting on the kindness he was shown that day.

"I spent most of the morning in the Engine Testing Facility (ETF) talking with the instrumentation folks," he said. "When it came lunchtime Mr. Will George offered to take me to the A&E Cafeteria for lunch. I panicked for a few seconds. I was so excited about [my] interview that I didn't make sure I had lunch money when I left home that morning. I secretly counted the change in my pocket as we went through the line and figured out I had enough change for a hot dog and a glass of water. I was very relieved when Mr. George bought my lunch for me."

Medley officially started at the base June 10, 1969, in the ESF Instrument Calibration Laboratory under Shirley Williams, supervisor of the



Phillip Medley has had several different career opportunities during his 45 years at AEDC. He is currently working as the Test Measurement and Diagnostic Equipment technical lead. (Photo by Jacqueline Cowan)

Laboratory at the time.

looked to Williams as a technicians,

"Shirley was one of the best supervisors I've had in my career at AEDC - he gave me from measurements near the 10,000 chances Thom- absolute zero, to working as Edison referred to in with the metallic freezing one of his quotes, 'I have point standards." not failed, I've just found

Temperature Calibration the lab learning all about 1974. calibration, metrology and especially Calvin Rieben who taught [Williams] me just about everything there is to know about temperature metrology

Medley stated his most spent 12 great years in in the lab occurred April 1, flaw in the voltmeter he

He explained that he such from the instrument cians, Gene Smith, was calibrating the alternate current voltage standard in our multimeter calibration station and accidently came in contact with about ter of recognition from 2,200 volts," he said. "I hit the circuit breaker to for doing his part in what turn off the power and those nearby took care of Gene. He made it through 10,000 ways that won't memorable, and perhaps the ordeal, and an inveswork," Medley said. "I the most stressful, moment tigation revealed a design

was using. Gene was fol-"One of the techni- lowing the correct safety procedures, but the 'holes in the Swiss cheese' just happened to line up to give is also still working at him the electrical shock."

Medley received a let-AEDC's general manager could have been a life threatening accident.

Medley moved to ETF in 1982 and had the opportunity to gain some testing experience by spending the summer in the Solid Rocket Motor Test Facility J5.

"J5 was one of the ETF production test cells at the time," Medley explained. "Not only did I gain test experience, I gained new friends, including General Lee Gossick."

Maj. Gen. Gossick, now deceased, served as AEDC commander from turned to AEDC in 1980 to serve first as director of quality and safety, then as deputy general manager of the AEDC aeropropulsion testing contractor for nine years.

management philosophy with me – manage by walking around," Medley said. "That's one thing we all need to do, whether a big project at work. Stay involved with the 'team.'"

A noteworthy event came about in 1990, when Medley met the woman who would later become his wife.

"One of my job duinvolved tracking down new instrument purchases to ensure the new items were correctly entered in the Instrument Management Information System," he said. "We received a monthly report of new items, but it didn't have all the information items. A colleague told me all the purchase requests went through material control and if I called [extension] 3930 the lady who answered the phone could tell me who bought each item. I tried it and it worked."

Medley began a friendship with the woman on the other end of the phone, and the calls became more frequent until he eventually went to visit her in person.

"Finally in 1995 I inand the rest is history," he at AEDC."

said. "The 'voice at 3930' has been my wife for a happy 18 years."

Medley's wife, Karen, AEDC in the contracts of-

Another inspirational individual Medley speaks fondly of is Bill Earheart.

"Bill was always an engineer at heart and thinking of better ways to do things," Medley said.

Medley noted that over the years he's witnessed firsthand how much technology has advanced. For example, in the early 1990s, a systems engineer in the Central Computer Facility (CCF) introduced him to a computer program that extracted data from a database on the mainframe and allowed you to transfer that data to the PC, which was exciting news.

"At that time, it took 1964-67. After retiring a letter from your branch from the Air Force, he re- manager and director to get a report created by the CCF programming staff, and it took a long time to get the report. This program made the reports practically instantly."

Though he's look-"Gossick shared his ing towards retiring soon, Medley believes TMDE program is in good hands and will continue to be successful.

"We (AEDC) now managing our home life or have a TMDE program we can be proud of," he said. "Our test data quality is the best it's ever been and we are meeting the Air Force customer's expectations for compliance with TMDE related technical orders. As we begin another page of TMDE history this fall as we welcome the new PMEL contractor to AEDC, I'm sure the TMDE community will do what needs to be done to make the new contractor feel at home at AEDC and get the job done."

Medley said he's enneeded to track down the joyed his career and appreciates those who've been supportive along the way.

"I'm very happy to have had the opportunity to work with the great people that made up the ARO/Sverdrup Instrument Branch, as well as many others from the other departments who gave me a good foundation. And there's the ATA generation - we have a great, highly performing workforce who knows how to use technology to keep AEDC at the forefront of the ground test vited the young lady to go community. Thanks to all to the National Engineers of you for allowing me to Week Banquet with me share a wonderful 45 years

# **AEDC** military personnel receive promotions



Capt. Paul Malone (right) takes his Oath of Office during his promotion ceremony where he was promoted to captain in the U.S. Air Force. The oath was presented by Lt. Col. Jay Orson. (*Photo provided*)



First Lt. Joseph Achenbach (center) is pinned by 1<sup>st</sup> Lt. Benjamin Hoff (left) and 1<sup>st</sup> Lt. Chance Johnson at a recent promotion ceremony where he was promoted to first lieutenant in the U.S. Air Force. *(Photo by Jacqueline Cowan)* 



First Lt. Benjamin Hoff (right) takes his Oath of Office during a promotion ceremony where he was promoted to first lieutenant in the U.S. Air Force. The oath was presented by Hoff's father, Gregory. (*Photo by Jacqueline Cowan*)



First Lt. Julie Sung (center) is pinned by U.S. Air Force Lt. Col. Jay Orson (left) and U.S. Navy Lt. Cmdr. Jessica Herman during a recent promotion ceremony where she was promoted to first lieutenant in the U.S. Air Force. (Photo by Jacqueline Cowan)



