



HIGH MACH

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Surge in engine testing at AEDC Concurrent testing to become standard operations

By Deidre Ortiz
AEDC Public Affairs

With the System Development and Demonstration Phase for the F135, engine for the F-35 Lightning II Joint Strike Fighter, coming to an end, there's been a surge in testing at the AEDC Engine Test Facility.

According to Mike Dent, deputy director of the Aeropropulsion Combined Test Force at AEDC, in preparation for the

move to the production phase, there have been three F135 engines in the ASTF test cells all within the same timeframe.

"This concurrent testing is due to the Joint Program Office working to achieve Milestone C, which means the F135 will be finished with its SDD phase and move on to production," he said.

Dent explained the engines were being put through different types of testing and develop-

ment in order to fulfill the necessary requirements.

"We tested the redesign of the augmentor, or afterburner, of the engine," he said. "This was done under the war on cost or WOC initiative. WOC initiatives are designed to save money by simplifying the manufacturing process.

AEDC engineers also tested the redesign of the first stage of the engine fan for the F135 and briefed the JPO on the findings.

Meanwhile, accelerated mis-

sion testing was being conducted on an F135 in the AEDC Sea Level 2 test cell.

"Additionally, we had other high priority testing taking place in the ETF [Engine Test Facility] J-1 test cell," Dent said. "This means continuous running of the plant for altitude testing."

Therefore, the Engine Test Facility needed to supply the test conditions for an altitude test while simultaneously supplying the test conditions for a sea level test at in-

creased Mach numbers.

The implementation of concurrent testing takes significant upfront coordination, but is advantageous in many ways, according to Aeropropulsion CTF leadership at AEDC.

"The major advantage is increase throughput while at the same time you save on both schedule and budget due to economies of scale," Dent said.

Testing of the F135 at AEDC was completed in June to meet the JPO deadline.

Coordination leads to safe and successful completion of maintenance projects



AEDC pipefitter Chris Shores, far left, and Wilbert Eppenger remove a manway to permit access into a 72-inch water line in the Engine Test Facility J-Cell area to repair a leak 100 feet down the buried pipeline. The repair was conducted during an 11-day electrical and water outage in early July. Two rescue personnel from Industrial Emergency Services, LLC, were present to provide emergency assistance if needed. (AEDC photo)

By Raquel March
AEDC Public Affairs

Coordination was a key factor in completing multiple maintenance projects safely at AEDC during a recent 11-day water and power outage.

The outages provided an opportunity to access, maintain and repair equipment that is used for daily test operations.

The base-wide water outage was scheduled to involve 19 corrective maintenance projects, while the electrical outage at the AEDC Propulsion Wind Tunnel test facility plant involved six preventive maintenance projects.

"The AEDC contractor team had an ultra-successful outage period from June 30 through July 10," said Brian Allen, an operations officer for the AEDC Test Support Division. "In this small window, craftsmen and technicians performed preventive maintenance on five large unit sub-transformers and circuit switchers including the PWT main drive switch gear and also tested filter capacitors. Additionally, they completed preventive maintenance on the 13.8kV (kilovolt) breakers and other critical electrical components."

See MAINTENANCE, page 5



AEDC Pipe Shop supervisor Kerry Abbott checks the dimensions of the fire protection line before fabricating a replacement pipe. The pipe failed after the start of a base wide water outage in early July and the job was worked into an ongoing heavy maintenance schedule. (AEDC photo)

Tunnel 9 director addresses hypersonic workforce development

By Deidre Ortiz
AEDC Public Affairs

Dan Marren, director of the AEDC White Oak site home of Hypervelocity Wind Tunnel 9, spoke to fellow AEDC teammates in a technical seminar July 21 at Arnold Air Force Base regarding the revitalization of the workforce at his test site.

"Several things came together over about a decade of time to have us end up where we are now," Marren said of the current workforce at White Oak/Tunnel 9.

He explained that in 2003, the National Aerospace Commission had foreseen the skills of the aerospace Research Development Test and Evaluation workforce rapidly decreasing.

"Then in 2010 the Test Resource Management Center went a step further and outlined how the niche area of hypersonic technology was in even worse shape while at the same time would be needed in the next decade to help programs get through the DoD acquisition process. This collided with the 2006 Tunnel 9 strategic plan that essentially told management that Tunnel 9, the facility partially responsible for fielding strategic systems and missile defense, would be obsolete within roughly five years."

This news resulted in charting a new course for Tunnel 9 with strategic components of technical excellence, capability improvement and building better relationships.

"We sought out not only to better know our customers but the S&T (science and technology) innovators that could help us re-invent Tunnel 9," Marren said.

He added that the results from this approach surprised even him.

"While we were reaching into the S&T world, and figuring out hard problems, we found that our technical staff grew in ways we still cannot hardly believe. Many of the existing team became subject matter experts and are now leading the community in theories, analysis and test. An additional benefit was we excited a whole new generation of young students who are now taking jobs at Tunnel 9, at AEDC and in the enterprise."

Marren made his presentation to a crowded room, and he thanked those who were in attendance.

"There's nothing like travelling 700 miles and feeling like people might like to hear what you have to say. I was equally excited to see both civilian leadership and many folks from our new contractor leadership present at the seminar."

Cynthia Rivera, general manager of National Aerospace Solutions, LLC, contractor of the AEDC Test Operations and Sustainment branch, took the opportunity to sit in on Marren's talk about the evolution of Tunnel 9.

"We appreciate that Dan took the time to give the presentation," she said. "He and the Tunnel 9 team have done a tremendous job establishing external support and university relationships that have benefited the AEDC mission. We will continue to learn from their model seeking new ways to prepare for future testing requirements, plus leverage Tunnel 9 talent and expertise at our other sites."

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HIGH MACH



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An Air Force Test Center Test Complex

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



Vision

"NAS will be integral to the success of AEDC, the U. S. Air Force's premier aerospace testing facilities, while applying the highest standards of ethics, innovation, safety, security, and quality to daily operations."

Values

- Ethics. We are uncompromising in our integrity, honesty, and fairness.
- Safety & Health. We are relentless in keeping people safe from harm, and we provide a safe and healthy work environment.
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- People. We have a mission-focused, inclusive workforce who have a diverse skill set, are committed to success, demonstrate innovation and have a can do attitude.
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- Relationships. We build positive, long-term business relationships through trust, respect, and collaboration.
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- Sustainability. We plan and act for the long term benefit of our communities and our environment.

Women's History Month and Women's Equality Day Celebration

By Karen Steele
AEDC Federal Women's Program

As AEDC Special Emphasis Program manager for the Federal Women's Program, I would like to invite all AEDC em-

ployees to a very special Women's History Month and Women's Equality Day Celebration. We will be hosting a luncheon with a special guest speaker on Aug. 16 at the Arnold Lakeside Center. Our guest speaker

will be Kimberly K. Toney. She is a member of the Senior Executive Service and is the Director of Personnel Operations, Headquarters Air Force Personal Center, Joint Base San Antonio-Randolph, Texas.

Toney is responsible for effective and efficient delivery of A1 Human Resource Management programs impacting 69,000 officers, 260,000 enlisted and 180 Air Force civil service members across the Air Force. She served

at Arnold Air Force Base as Chief MWR and Services Division from August 1988 to March 1991. Mark your calendars and plan to attend this special event.

I hope to see you on Aug. 19.

Balancing work, life strengthens identity

By Maj. Naomi Henigin
60th Force Support Squadron

TRAVIS AIR FORCE BASE, Calif. (AFNS) – As the Air Force focuses on resiliency for our Airmen and their families, concepts like work-life balance are given renewed consideration.

The health benefits of maintaining a balance between our career identity and our "true self," the one typified by the activities we engage in outside of work, has led to special attention on finding the happy medium.

Members of the military have one of the strongest work identities forged

through shared experiences starting in basic military training and continuing through deployments, routine missions, daily life in a common uniform and speaking a common language.

For those who serve, our work identity is so closely tied to our "true self" that the lines between work and everything else become blurred. Our friends and our colleagues are one in the same; we live mere steps from the office and we devote so much of ourselves to the mission that its success becomes a singular driving force in our lives.

And we like it that way. We love our profession,

and we are what makes us the world's premier fighting force.

That love and that drive for the Air Force, however, can overtake our "true self." When we lose what makes each of us unique and strong individually in the pursuit of our common mission, the entire organization will suffer. We all must find a balance in how we pursue professional excellence, while remaining true to our other identities.

For many of us, that balance is in being a parent; for others, it's being a friend, a sibling, a child. It might be connected to a hobby. For some, it's all of those things -- and in the

end it doesn't matter. The "life" in work-life balance is whatever you do outside of work, and it's important.

If there is any question as to the weight the Air Force places on work-life balance, consider the Diversity and Inclusion and Force of the Future policy initiatives our Air Force leadership have implemented in the last year. Programs targeted at recruiting and retaining America's best and brightest are demonstrating that there is more to being an Airman than just work. The life part of that balance is critically important to ensuring that we achieve and maintain a margin of excellence.

We will never attain a perfect 50/50 balance between work and home life, but we as Airmen should strive to find an equilibrium that allows us to perform at our best. The Air Force is making room for it. As hard as it may be to slow our own personal ops tempo down, it's critical to the success of the mission.

For me personally, being a good mother, wife, friend, and athlete takes time away from my squadron, but that side of my identity is an important source of strength and resiliency. By spending some time on those aspects of my life, I am undoubtedly a better Airman at work.

Embracing diversity by leading from the front

By Col. Greg Cilmour
315th Airlift Wing commander

JOINT BASE CHARLESTON, S.C. (AFNS) – Often times when we hear terms like diversity and inclusion, we think of them more as buzz words or a way to hold someone accountable for not doing the right thing.

But what does diversity actually mean to us in the Air Force? To me, it's simple: place the right people in the right positions to execute our mission.

I recently had the opportunity to reflect on this after I selected the incoming 315th Maintenance Group commander, who just happens to be a woman. Looking over our organization I realized that in a male-dominated community, we are certainly unique. Soon, all three group commanders in the 315th Airlift Wing will be females as well as our vice wing commander and one O-6 squadron commander.

In the Air Force, women comprise 29 percent of the total force and, according to a recent study by Diversity Central, in the civilian sector women only hold 6 percent of chief executive roles in America.

So, this may leave a person to wonder, why do women hold two-thirds of

the senior leader positions in the 315th AW? I think that answer is also simple. We placed the right people in the right positions to move our mission, regardless of the visible or invisible attributes that contribute to diversity within our ranks. These attributes include things like gender, race, and age as well as education, religion or sexual orientation, just to name a few.

So, does this mean that the days of inequality are over and the glass ceiling has been shattered? Certainly not, and we have a long way to go. But, if we recognize that there are cultural and stereotypical biases in each one of us, and fight to overcome those biases, we will be well on our way to leveling the playing field for all Airmen.

As I think about how, as an Air Force, we can continue this trend of promoting the best and brightest by leveraging the best talent we have and capitalize on opportunities. I can tell you that the process does not start at the wing commander level; it starts with every Airman and every supervisor. I charge every one of you to personally evaluate your internal biases, regardless of how small, set them aside and

always continue to push our Air Force forward.

I would love to see a day when statistics are no longer needed and the best individual is always

pushed to the top, regardless of gender. We have the world's most powerful Air Force and the reason for that is not because of our weapon systems, it is be-

cause of our Airmen. So, take care of each other, embrace your core value of integrity first, and always recognize your best and brightest no matter what.

Shattering the silence

By Anonymous

ROBINS AIR FORCE BASE, Ga. (AFNS) – I'm tired of the sound of silence.

At a recent Green Dot leadership training session, I was asked to write down on a piece of paper an action that I would do as a leader to help implement culture change.

I wrote, "Write a commentary on domestic assault which I experienced."

Experiencing domestic abuse took my voice away, and during the thick of it, I didn't even recognize myself anymore. Well, I have my voice back and I'm breaking my silence.

According to the training, red dots represent an act of power-based personal violence or the choice to tolerate, justify or perpetuate violence. My whole life at one point was a red dot where my body and boundaries were abused, but I turned to my

green dots – family, colleagues and leadership – for help.

It's through programs, like Green Dot, that the Air Force is changing toxic red dots to green.

I clung to these green dots and they helped pull me out of the toxic fog of a life I had been living. A green dot is any behavior, choice, word or attitude that promotes safety for all of our citizens and communicates utter intolerance for violence.

Walking on eggshells just to keep the peace isn't living. Making excuses for explosive behavior in public isn't living. And neither is being called names that cut you to the core. There are people in this world who only feel good if they're causing someone else pain. That is not love, and that was the hell I lived in until I clawed my way out, re-establishing my boundaries and understanding that what I experienced was abuse.

Moving on from abuse, I keep a quote from Maya Angelou close to my heart as a baseline of my boundaries.

It reads, "When someone shows you who they are, believe them the first time."

I ignored the red flags, lost my voice and had my world shattered. Sharing this story, I am your green dot.

If you're experiencing life living around red dots, I hope these words reach you. I hope they empower you to reach out to the green, to an already established safety net that will catch you, help you and give you your voice back.

The momentum of the Green Dot program needs to not only propel its way through our service, but throughout our society, establishing healthy boundaries that banish toxic red dots.

Editor's note: The author's name was redacted to protect their identity.

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 selsaed 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

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 via the AEDC intranet home page and by calling 454-6000.

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

Col. Rodney Todaro
AEDC Commander

Team AEDC Spotlight

Dr. Bui first recorded AEDC female to receive Ph.D.

By Raquel March
AEDC Public Affairs

Dr. Them Bui is known as a Control Systems engineer at AEDC who provides support to operational, maintenance and sustainment at the Space Threat Assessment Testbed. She also has the unique role as the first recorded female at the Complex to receive a doctorate degree.

She earned her degree through an advanced degree program at AEDC and by the fall of 2015, Bui completed coursework and received her doctorate in industrial engineering from the University of Tennessee, Knoxville. She was recognized at the 2016 University of Tennessee Space Institute graduation ceremony in May.

When Teri Black, an AEDC contractor training supervisor, checked the training and human resources records, she found that there wasn't another female who had received a doctorate while at AEDC.

Bui admits that achieving her accomplishments were demanding.

"It has been one of the most significantly difficult and challenging efforts that I have undertaken," she said. "It has been a long journey with many obstacles and enormous pressures which I had to face to get where I am today."

"I started by learning English, took the high school GRE [Graduate Record Examination] test, and finally successfully defended my doctoral dissertation. I did all this while balancing the toughest challenging work tasks, home and my academia. Those years were very

tough. I never thought this day would happen and I am truly grateful to all who have been there for me and who believed that I could accomplish the wishes of success that my father had for me."

Bui was raised in a military family in Vietnam with her parents, four brothers and seven sisters. After the Vietnam War her family experienced some hardships but Bui's father emphasized obtaining a good education.

"In Vietnam, the girl has nothing and no chance for a higher education or a professional engineering career," she said. "I have always loved school and admired engineers. I graduated at the top of my high school class in Vietnam. My dad was so proud that he told me that even though he had to work the hardest job on this earth, he wished for me to be successful and wanted to support me in pursuing my higher education."

Bui said she didn't think it was possible to receive a higher education in Vietnam. She expressed however, that in the United States higher education is an opportunity for anyone, including women, as well as an engineering career.

Dr. Joe Sheeley, mentor and senior technology engineer at AEDC, believes that Bui's background was a major contributor to her drive to earn her doctorate.

"Dr. Bui has an inspiring story, having immigrated to the U.S. and then finding time to complete her education while usually working full time and taking care of a family," he said. "During her dissertation work she was using nights and weekends to complete the research and



Dr. Them Bui (right), a Space Threat Assessment Testbed Control Systems engineer at AEDC, discusses the settings and configurations of special gauges used in the STAT facility with colleague Mike Scott, an AEDC Space and Missiles scientist. Bui is the first recorded female at AEDC to receive a doctorate degree. She received the degree in industrial engineering from the University of Tennessee, Knoxville in the fall of 2015. The University of Tennessee Space Institute recognized Bui at a graduation ceremony May 9. (U.S. Air Force photo/Rick Goodfriend)

writing while supporting a very aggressive development schedule in STAT. She knew that education was important to her father and therefore took advantage of the opportunities she had."

Although Bui's doctorate is from UTK, she was able to take UTK classes at the UT Space Institute. The Institute was founded in 1964 and located next to AEDC to further the education of the engineers and scientists who work at the Complex. The leadership at AEDC, during the 1950s and early 60s, believed the knowledge obtained by personnel would be beneficial to the future testing capabilities at the Complex. Today, AEDC

team members continue to increase their knowledge by attending the institute.

Randy Sloan, an Information Assurance lead and former Control Systems Engineering manager at AEDC, sees a future use for Bui's doctoral research on prognostic algorithms at AEDC.

"I'm confident that Them's research has helped build a foundation on which AEDC can develop better prognostic algorithms capable of predicting industrial equipment and system failures

before they happen, helping to avoid costly repairs and extended mission down time," he said.

Bui presented her research at the 2015 Machinery Failure Prevention Technology Conference in Huntsville and published her findings.

Sheeley noted that she stepped outside of her comfort zone and Bui said she appreciated the frequent encouragement she received from Sheeley when he told her "don't give up."

Bui has 31 years of

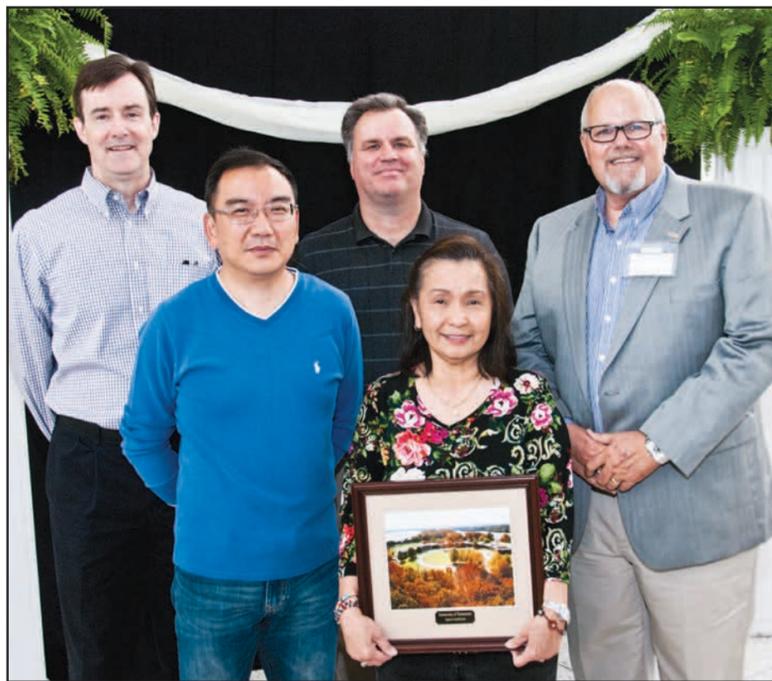
experience in engineering, seven of those years at AEDC. She also holds an Associate of Science degree in computer science and aerospace engineering, a bachelor's degree in industrial engineering technology and a master's degree in industrial and systems engineering management.

Bui is married to Mike Mashburn, a test control engineer in the AEDC von Karman Gas Dynamics Facility, an aerodynamics hypersonics testing facility.

Rivera and Pearson visit NAS team members



NAS General Manager Cynthia Rivera (center) and NAS Deputy General Manager Doug Pearson (second from left) speak with NAS team members at the Aero propulsion Systems Test Facility Air Side Plant which provides air to the turbine engine testing facilities. Rivera and Pearson recently visited the facility as part of a "walk-through" which gave them a chance to see the work performed in that location. Also pictured (far left, clockwise) are team members Rod Cregier, Tim Layton and Mark Chappell. (U.S. Air Force photo/Rick Goodfriend)



Dr. Them Bui (front row, second from left), a Space Threat Assessment Testbed Control Systems engineer at AEDC, displays the commemorative photo she received during the University of Tennessee Space Institute graduation ceremony May 9. She was recognized at the ceremony for receiving her doctorate in industrial engineering from the University of Tennessee, Knoxville. Bui is the first recorded female at AEDC to receive a doctorate degree. Pictured with Bui on the front row is Dr. Andrew Yu, associate professor with UTSL. On the back row, left to right, is Dr. Rob McAmis, with AEDC; Dr. Joe Sheeley, with AEDC; and Dr. James Simonton, then interim executive director with UTSL. (Courtesy photo)

AS AN AIR FORCE CIVILIAN, WHERE CAN I FIND HELP?

We all face challenges, but we don't have to face them alone.

IF YOU NEED HELP WITH... TRY THESE AGENCIES & THEIR RESOURCES

ALL EMPLOYEES		
Suicide prevention	National Suicide Prevention Lifeline	(800) 273-8255
	American Association of Poison Control Centers	(800) 222-1222
Mental health & substance abuse	Centerstone	(931) 461-1300
Unplanned pregnancy	Crisis Pregnancy Assistance Center	(931) 728-6440
Health and Safety Education	American Red Cross	(615) 893-4272
MILITARY		
Virtual extension of installation services	Military One Source	www.militaryonesource.com
Health & wellness planning	AFMCC Wellness Support Center	www.afmccwellness.com
	Health and Wellness Center	(931) 454-6440
	Sexual Assault Response Coordinator	(931) 581-7494
	Airman and Family Readiness Center	(931) 454-4574
DOD CIVILIAN		
Health & wellness planning	AFMCC Wellness Support Center	www.afmccwellness.com
	Civilian Health Promotion Services	(931) 454-6440
	Employee Assistance Program	(800) 222-0364
Work, personal or family issues		www.fob4you.com
		(931) 581-7494
Sexual assault & victim advocacy	Sexual Assault Response Coordinator	(931) 581-7494
Crime victim advocacy	Victim Witness Assistance Program	(931) 454-4567

Author documents historic significance of Camp Forrest

By Deidre Ortiz
AEDC Public Affairs

Before the establishment of AEDC and its unique aerospace testing facilities, part of the land Arnold Air Force Base sits on was used as one of the Army's largest training bases during World War II.

The camp, named Camp Forrest after Civil War Cavalry Confederate General Nathan Bedford Forrest, was active between 1941 and 1946.

The area is rich in history, but not many publications exist chronicling the historic significance of Camp Forrest.

Elizabeth Taylor, an author from Georgia, wanted to change this and recently set out to research all she could about the camp. The end result is the book "Camp Forest," part of the Images of America series printed by Arcadia Publishing. It is a photographic history of the soldiers who were trained there, the civilians who worked there, and the prisoners of war housed there.

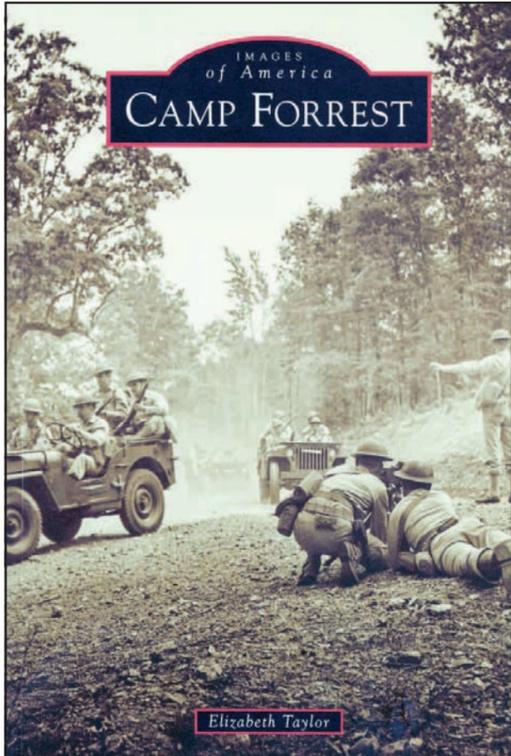
"There's so little available out there about it," she said. "Other than a few websites and the book, 'Reveille to Taps,' there's not much beyond that on Camp Forrest."

Taylor explained though her career has been in public administration, history has always been an interest of hers, and recently she learned a colleague's relative worked at Camp Forrest and became intrigued by the place.

"I found the stories and the campus in Tullahoma so interesting," she said.

One such story is that of Richard Weinert, an Army Private, who while at the camp wrote letters to his girlfriend, Evelyn York of Shelbyville.

"The letters had different drawings on the envelopes, and even though



"Camp Forrest," a book by Elizabeth Taylor, is a photographic history of Camp Forrest, a military training camp near Tullahoma, Tenn., that was used during World War II. What is left of the camp is now part of Arnold Air Force Base. The book is part of the Images of America series published by Arcadia Publishing. It is available at www.arcadiapublishing.com and local bookstores. (Courtesy photo)

Shelbyville isn't that far, they wrote to each other multiple times a week," Taylor said. "Each envelope is its own work of art."

Weinert was sent to fight overseas, but upon returning married York and together they moved to Wisconsin. Not so surprisingly, Weinert found work as an illustrator for magazines.

A few of the envelopes with Weinert's drawings can be found in Taylor's book.

However, this work of nonfiction begins at Camp Peay, the precursor to Camp Forrest, in 1926 and takes the reader on a journey through the life of the camp, which spanned 85,000 acres and served a training area for infantry, artillery, engineer and signal organizations.

She notes in the intro-

duction of the book the sheer size of the camp, "It cost approximately \$36 million to build the 1,300 buildings, 55 miles of roads and 5 miles of railroad tracks the camp contained. The 1,300 buildings consisted of 408 barracks, 158 mess halls, 14 officer mess buildings, 19 guardhouses, 35 warehouses, 20 administration buildings, 30 officer quarters buildings, a bakery, an ice plant, an incinerator, a cold storage building, a laundry, a water and sewage treatment facility, a dental clinic, and a 2,000-patient hospital."

The book also illustrates how the town of Tullahoma as a whole was affected by the installation of Camp Forrest. In 1940 Tullahoma's population was 4,500. By the end of the war, the population increased to 75,000.



These are some of the photos, posters and letters on display during Elizabeth Taylor's recent book signing in Tullahoma. The memorabilia displayed shows the history of the area and of Camp Forrest, the Army training base used for training troops during World War II. The camp lies on what is now part of Arnold Air Force Base. Taylor's book is a photographic history of Camp Forrest and its day to day happenings while in operation. (U.S. Air Force photo/Mike Walton)



Cars pass through the entrance to what was Camp Forrest. The gate was located at what is now William Northern Boulevard in Tullahoma. (Courtesy photo)

Then in 1946 after the war's end, Camp Forrest and William Northern Field, its air training base, were declared surplus property. Buildings were sold at auction, torn down and carted away. Water and sewage systems and elec-

trical systems were sold as salvage. All that remained were roads, brick chimneys and concrete foundations.

Since not a lot is left of Camp Forrest, the book helps bring the camp back to life for readers through photos of the day to day events during its existence. Taylor invites everyone the opportunity to learn about this historically significant place through her book. "Camp Forrest" is available now at www.arcadiapublishing.com and local stores.

MY STRENGTH IS FOR DEFENDING
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Nature's hazards: Poisonous plants

By Air Force Materiel Command Health and Wellness Team

WRIGHT-PATERSON AIR FORCE BASE, Ohio – State parks and woodlands are favorite places for many people who enjoy outdoor activities. Unfortunately, contact with poisonous plants can make these outings a miserable experience.

Poison ivy, poison oak and poison sumac all contain the plant oil urushiol, which can cause severe skin rash when any part of the leaves, stem or root is touched. Allergic reaction can occur directly by touching the plant, or indirectly by coming into contact with the oil on animals, tools, clothes or other items. Even the smoke from the burning of these poisonous plants contains oil particles that can be inhaled and cause lung irritation.

Interaction with these plants is preventable. This article is designed to help individuals learn how to identify poisonous plants in order to avoid exposure.

Plant Identification

Poison Ivy – The old saying “Leaves of three, let it be” is a reminder of the consistent leaf characteristic of this plant. Leaflets can be 2-6 inches long and may be toothed or have smooth edges. Leaves emerge with a shiny reddish tinge in the spring and turn a dull green as they age, eventually turning shades of red, yellow or orange in the fall before



dropping off the plant.

There are different types of poison ivy found throughout the United States. Eastern poison ivy is typically a hairy, ropelike vine with three shiny green (or red in the fall) leaves budding from one small stem. Eastern poison ivy is the one of the most common poisonous plant species in the United States, and is found throughout the Midwest to the east coast. It can grow as a shrub or as a vine that climbs high on trees, walls and fences or trails along the ground. Western poison ivy is typically a low shrub with three leaves that does not form a climbing vine.

Poison Oak – Similar to poison ivy, poison oak

consists of three leaflets. One distinguishing feature of poison oak is its lobed leaves, which gives it the appearance of an oak leaf. Leaflets emerge with a reddish tinge in the spring, turn green and then assume varying shades of yellow and red in the fall. Atlantic poison oak can be found as ground vine and shrub, while Pacific poison oak grows as a ground vine, a shrub and a climbing vine.

Poison Sumac – More allergenic than poison ivy and poison oak, poison sumac is a tall shrub or small tree that has a stem that contains seven leaves that does not form a climbing vine. Distinctive features include leaflets that are elongated, oval and

have smooth margins. The leaflets are 2-4 inches long, 1-2 inches wide, and have a smooth, velvety texture. Leaves are orange in early spring, and later become dark green and glossy. In the early fall, the leaves turn yellow, red or orange. Poison sumac prefers to grow in very wet areas such as bogs or swamps.

Symptoms of Skin Contact

Signs or symptoms associated with dermal contact with poisonous plants may include:

- Red rash within a few days of contact that can last two to three weeks;
- Itching;
- Swelling;

- Possible bumps or weeping blisters; and,
- Difficulty breathing, if you've inhaled the smoke from the burning of these poisonous plants

First Aid

Individuals who have come in contact with poisonous plants should:

- Immediately rinse with rubbing alcohol, specialized poison plant washes, degreasing soap (such as dishwashing soap) or detergent, and lots of water
- Apply wet compresses, calamine lotion or over-the-counter hydrocortisone cream to the skin to reduce itching and blistering;
- Use an antihis-

tamine such as diphenhydramine (Benadryl) to help relieve itching; and,

- Seek professional medical attention if the rash is widespread, on the face or genitals, does not improve within a few weeks, or if you have difficulty breathing from inhaling the smoke from burning poisonous plants.

Civilian Health Promotion Services will be offering educational briefings on summertime safety during July. For more information, visit www.AFMCAWellness.com. Comprehensive information on poisonous plants can be found on the Center for Disease Control and Prevention website at www.cdc.gov.

MAINTENANCE from page 1

Allen said during the water outage, workers safely repaired seven known leaks in the cooling water system and conducted nine repairs of valves and other components. Concrete repairs were also performed on the Complex secondary reservoir which supplies cooling water to the test facilities.

According to Ronnie Skipworth, a National Aerospace Solutions, LLC, Utilities manager with the Test, Operations and Support contract, 18 scheduled jobs and three unscheduled jobs were completed with the water outage. During the electrical outage, all scheduled jobs were completed, as well as four that were unscheduled.

Due to the number of projects, many AEDC team members were involved in safety, scheduling and work.

“Coordination with the different areas was required to ensure the safety of the maintenance workers and to allow for access to the equipment during a non-operational period,” Skipworth said.

Team members including pipefitters, welders, equipment operators, electricians, laborers, carpenters, safety personnel, an emergency response team and others, were involved in performing tasks.

The AEDC Tactical Integration Group, an Air Force and contrac-

tor scheduling group, reviewed the maintenance schedule to minimize the impact to testing and limit impacts to the facilities.

“Executing this work will reduce the probability of downtime impacts and provide better reliability for our test customers,” Skipworth said.



Students get excited about science

The students in the AEDC Science, Technology, Engineering and Mathematics Camp hold their certificates showing they completed three days of fun, hands-on science activities at AEDC. This year's STEM Summer Camp was held July 12-14 for children of AEDC employees. Funded through the Air Force Educational Outreach Office, the camp is at no cost to those who attend. A graduation was held at the end of the camp to celebrate the group's accomplishments. Pictured left to right are the participants in this year's camp at AEDC; in front: Cora Fulks, Amber May, Zaylan Spinner, Natalie Aquirre, Cole Fowler, Bradley Escue, Samuel Mansfield, Jacob Slabaugh, Alex Halliburton. Second row: Kimberly Coleman, Nico Pangeliman, Noah Klepper, Kathryn Brown, Alyson Newsom, Joseph Duncan, Zane Hopf, Benji Spratlin, Emma Fulks, Ellianna Masters and Steven Mehalic with STEM Camp assistants Carlene Guerin and Laura Burke. In back left is Jere Matty, AEDC STEM outreach specialist. (U.S. Air Force photo/Holly Peterson)

Two missions, one fight

By Master Sgt.
Anika K. Jones
386th Air Expeditionary
Wing Public Affairs

SOUTHWEST ASIA (AFNS) – The 737th Expeditionary Airlift Squadron and the 386th Expeditionary Aircraft Maintenance Squadron have two different missions, yet work together every day to ensure the single mission of the C-130 Hercules can equip and prepare our forces to stay in the fight another day.

“The professionalism of total force Airmen,” said Maj. Kenneth Jensen, 386th EAMXS maintenance operations officer. “It’s amazing to watch members of many Air National Guard units, the active duty, Reserve and contractors come together to seamlessly achieve the mission every day.”

This rotation, the Alaska and Ohio Air National Guard have been filling the task for the 737th EAS. This could possibly be Alaska ANG’s last C-130 deploy-

ment as they transition to the C-17 Globemaster III, while this is Ohio’s first deployment back with the C-130H after transitioning to the C-27J Spartan for a short stint.

“They have represented their states and the Air National Guard wonderfully. It is difficult for guard members to leave their full-time civilian jobs to deploy, but they always do their duty with no complaints,” said Lt. Col. Michael Cummings, the 737th EAS commander. “Their dedication to the mission, their professionalism and their sacrifice has made me extremely proud of these people.”

Members of the 737th EAS and 386th EAMXS are faced with challenges such as older aircraft, extreme environmental conditions with temperatures reaching up to 140 degrees, and being separated from their loved ones.

“I’m most proud of our team for enduring the challenges that come with oper-

ating in a deployed location,” Jensen said.

The maintenance crews overcome these challenges to make sure the aircrews have safe and working aircraft to carry out the air tasking orders. Whether it’s an all-weather airdrop that has an accuracy of 15 yards within target from an altitude of 18,000 feet, a tactical assault landing on unimproved fields or an endurance of enemy fire to get the equipment and supplies to ground forces, these two units work together to get the mission accomplished.

Cummings said they would see severe degradation to the mission of defeating Islamic State of Iraq and the Levant terrorists without C-130H operations, maintenance and support personnel.

Support from the 737th EAS and 386th EAMXS has and will continue to play a crucial part in delivering decisive airpower and securing basic freedoms.

Pool Safely: Simple water safety steps can save lives

By AEDC Safety

Pool Safely is a national public education campaign to reduce child drownings, non-fatal submersions and entrapments in swimming pools and spas. The campaign was developed by the U.S. Consumer Product Safety Commission (CPSC) to carry out the requirements of the Virginia Graeme Baker Pool and Spa Safety Act (P&SS Act), federal legislation mandating new requirements for public pools and spas.

CPSC is working to ensure drowning and entrapment prevention are important public safety priorities by raising awareness, promoting industry compliance and improving safety at pools and spas. The Pool Safely campaign emphasizes an important and simple message: adding an extra safety step in and around the water can make all the

difference.

CPSC estimates that each year nearly 300 children younger than five drown in swimming pools and spas and an additional 4,000 children that age go to hospital emergency rooms due to submersion injuries in pools and spas.

You can Pool Safely by adopting extra safety steps:

Stay Close, Be Alert and Watch

- Always watch children and never leave them unattended

- Keep children away from pool drains, pipes and other openings

- Have a charged phone close by at all times

- If a child is missing, check the pool first

- Share safety instructions with family, friends and neighbors

Learn and Practice Water Safety Skills

- Learn to swim and make sure kids do,

too

- Know how to perform CPR on children and adults

- Understand the basics of life saving so that you can assist in a pool emergency

Have the Appropriate Equipment

- Install a fence of at least four feet in height around the perimeter of the pool or spa

- Use self-closing and self-latching gates

- Ensure all pools and spas have compliant drain covers

- Install an alarm on the door leading from the house to the pool

- Keep pool and spa covers in working order

- Have life-saving equipment such as life rings or reaching poles available for use

For more information and resources for pool and spa safety and the Pool and Spa Safety Act, visit: www.PoolSafely.gov



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AF declares the F-35A 'combat ready'



F-35A Lightning II aircraft receive fuel from a KC-10 Extender from Travis Air Force Base, Calif., July 13 during a flight from England to the U.S. The fighters were returning to Luke AFB, Ariz., after participating in the world's largest air show, the Royal International Air Tattoo. (U.S. Air Force photo/Staff Sgt. Madelyn Brown)

Air Combat Command Public Affairs

JOINT BASE LANGLEY-EUSTIS, Va. (AFNS) – The F-35A Lightning II fifth-generation fighter aircraft was declared 'combat ready' by Gen. Hawk Carlisle, the commander of Air Combat Command, Aug. 2.

AEDC has conducted multiple tests to help prepare the F-35A. Testing ranged from aerodynamic flows for the body of the aircraft and store separation to the F135 engine that powers the fighter.

Carlisle lauded the aircraft's performance, noting that the aircraft had met all key criteria for reaching initial operational capability: Airmen trained, manned and equipped to conduct basic close air support, interdiction and limited suppression/destruction of enemy air defenses in a contested environment with an operational squadron of 12-24 aircraft; the ability to deploy and conduct

operational missions using program of record weapons and missions systems; and having all necessary logistics and operational elements in place.

"I am proud to announce this powerful new weapons system has achieved initial combat capability," Carlisle said. "The F-35A will be the most dominant aircraft in our inventory because it can go where our legacy aircraft cannot and provide the capabilities our commanders need on the modern battlefield."

The F-35A is the latest addition to ACC's fleet of deployable and fifth-generation aircraft. It provides air superiority, interdiction, suppression of enemy air defenses and close air support as well as great command and control functions through fused sensors, and it will provide pilots with unprecedented situational awareness of the battlespace that will be more extensive than any single-seat platform in existence.

"Bringing the F-35A

to initial combat readiness is a testament to our phenomenal Airmen and the outstanding support of the Joint Program Office and our enterprise

partners. This important milestone for our fighter force ensures the United States, along with our allies and international partners, remains prepared to

deter, deny, and defeat the full spectrum of growing threats around the globe," added Air Force Secretary Deborah Lee James.

Chief of Staff of the

Air Force Gen. David L. Goldfein, said that dynamic new capability will benefit the joint warfighter.

See F-35A, page 9

AEDC quarterly award winners announced



Capt. Brett Johnson
Company Grade Officer
of the Quarter



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



Master Sgt. Matthew Krueger
Senior Non-Commissioned
Officer of the Quarter



2nd Lt. Benjamin Sinemus
Honor Guard of the Quarter



Amanda Stroop
Civilian of the Quarter
Administrative



Tyler Neale
Civilian of the Quarter
Scientist/Engineer



Geneva Hurley
Civilian of the Quarter
Clerical/Technical Support



Rebecca Gardner
Air Force Test Center, Category
III Civilian of the Quarter



Robert May
Non-Appropriated Fund
employee of the Quarter

Project Management Institute presents "Conflict Resolution Training"

By Douglas Brown
*AEDC Test, Operations
and Sustainment*

The Project Management Institute Southern Middle Tennessee Branch is hosting a luncheon meeting at the University of Tennessee Space Institute on Aug. 18.

Join local project management professionals for a time of networking and learning from 11 a.m. - 12:30 p.m. The guest speakers will be Alicia Page and Dave Masters of Same Page

Mediation, LLC. During this session, Page and Masters will discuss common causes of conflict in the workplace, share some steps to take to reduce conflict and provide some skills to resolve conflict when it occurs. The information is meant to help organizations concentrate on running their business.

The Project Management Institute is the world's leading not-for-profit professional membership association for the project, program and

portfolio management profession. PMI advances careers, improves organizational success and further matures the profession of project management through its globally recognized standards, certifications, resources, tools, academic research, publications, professional development courses and networking opportunities.

Call 454-5407 for additional information about joining the local branch or to make a reservation for the luncheon.



AEDC Safety Award
Services Recycling – (l-r), Jerry Rice, Brandon Berridge and Greg Burns.

F-35A from page 8

"The combat ready F-35A is the latest fifth-generation fighter aircraft in the Air Force's inventory and provides our nation air dominance in any environment. The F-35A brings an unprecedented combination of lethality, survivability, and adaptability to joint and combined operations, and is ready to deploy and strike well-defended targets anywhere on Earth," Goldfein said. "Today's declaration of IOC is an important milestone on the road to achieving full warfighting capability for the F-35A."

The 34th Fighter Squadron of the 388th Fighter Wing, based at Hill Air Force Base, Utah, is the service's first operational F-35A squadron, having met all the established criteria for initial operational capability including a successful June deployment to Mountain Home AFB, Idaho, and a series of eight-aircraft sorties held in mid-July. 34th FS Airmen will fly and maintain the F-35A alongside Air Force Reservists from Hill's 419th Fighter Wing.

"Our Airmen have worked tirelessly to make sure our aircraft are combat ready: meeting challenges head-on and completing all the required milestones," said Col.



Monique Purdon, Lockheed Martin's wind-tunnel lead on the F-35 Lightning II store separation team, examines a GBU-31 Joint Direct Attack Munition (JDAM) in the four-foot transonic wind tunnel at AEDC in 2007. The F-35A was recently declared combat ready. (U.S. Air Force photo/Rick Goodfriend)

David Lyons, the 388th Fighter Wing commander. "We're very proud that the Air Force has declared us combat ready and we're prepared to take this aircraft wherever it's needed in support of our national defense."

Those sentiments were echoed by Col. David Smith, the 419th FW commander. "It's an honor to fly and maintain the F-35 with our active-duty counterparts here at Hill," Smith said. "Our units

were the first to fly combat-ready F-16s nearly 40 years ago, and we're very proud to have made history once again in bringing the Air Force's newest fighter jet to IOC."

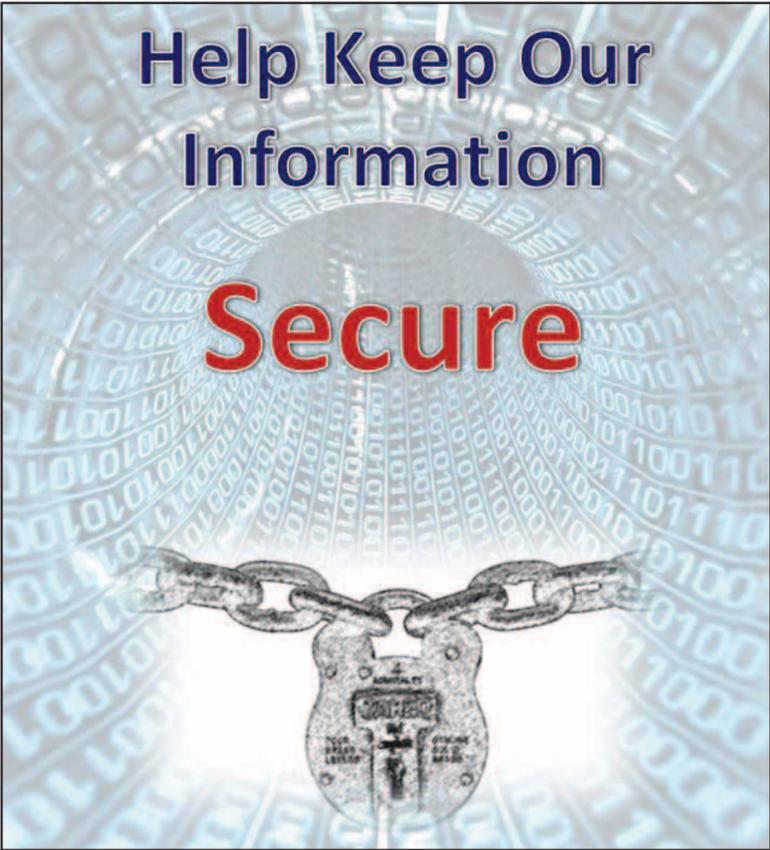
For more information visit this link: <http://www.acc.af.mil/AirCombat-CommandsF-35AProgram.aspx>.

For questions, contact Air Combat Command Public Affairs at (757) 764-5007 or via e-mail cpa.operations@us.af.mil.



Dias and Doe promoted to Captain

1st Lt. Jonathan Dias and 1st Lt. Hedison Doe take the oath during their promotion ceremony July 8 at AEDC. Both are being promoted to rank of Captain. The ceremony was led by Col. Timothy West, AEDC Test Operations Division chief, and the families and several friends of Dias and Doe were in attendance. (U.S. Air Force photo/Holly Peterson)



AEDC Milestones will be posted in the August 22 High Mach issue.

B-1s to replace B-52s during routine bomber presence rotation



For the first time in 10 years, B-1B Lancers will replace the B-52 Stratofortresses in support of U.S. Pacific Command's continuous bomber presence mission. This forward deployed presence demonstrates continuing U.S. commitment to stability and security in the Indo-Asia-Pacific region. (U.S. Air Force courtesy photo)

By Headquarters Pacific Air Forces Public Affairs

JOINT BASE PEARL HARBOR-HICKAM, Hawaii (AFNS) – The B-1B Lancers are scheduled to deploy to Andersen Air Force Base, Guam, Aug. 6 for the first time since April 2006 in support of U.S. Pacific Command's continuous bomber presence mission.

The B-1B's will replace the B-52 Stratofortresses currently deployed

from Minot AFB, North Dakota. This is not the first deployment of B-1Bs in the PACOM area of responsibility; however, it is the first time in 10 years.

With a large weapon capacity and exceptional standoff strike capability, the B-1 will provide PACOM and its regional allies and partners with a credible, strategic power projection platform.

This forward deployed presence demonstrates the continuing U.S. commit-

ment to stability and security in the Indo-Asia-Pacific region. The bombers will be accompanied by approximately 300 Airmen from Ellsworth AFB, South Dakota.

Air Force Global Strike Command continues to routinely deploy bombers to Andersen AFB, which provides opportunities for Airmen to advance and strengthen regional alliances and long-standing military-to-military partnerships throughout the Indo-Asia-Pacific.

A honey of a mission: Airmen help save, relocate 25,000 bees

By Airman 1st Class Magen M. Reeves
341st Missile Wing
Public Affairs

MALMSTROM AIR FORCE BASE, Mont. (AFNS) – Earlier this month, Malmstrom Air Force Base encountered a wildlife phenomenon, and through perseverance and understanding, handled what could have been a sticky situation in the most natural way possible.

Airmen utilized quick thinking and humane treatment to save the lives of approximately 25,000 honeybees discovered near the combat arms training and maintenance range.

The bees were discovered in close proximity to an outdoor picnic area at the CATM range by Tech. Sgt. Rayce Schneider and Senior Airman Billy Hunt, both assigned to the 341st Security Forces Support Squadron.

“Sergeant Schneider heard the buzzing,” Hunt said. “It sounded like a bee buzzing by your ear, but multiply the buzzing by one thousand. At first, we thought it was just a few hundred bees, but it actually turned out to be a lot more.”

The Airmen then contacted Tech. Sgt. Freddie Belton, a member of the 341st Civil Engineer Squadron pest management.

“We called Sergeant Belton and he was able to help us out,” Hunt said.

According to Belton, he considered the option of exterminating the bees.

However, according to Dr. Elin Pierce, a 341st CES Fish and Wildlife biologist, exterminating



Retired Maj. Brian Rogers, a master beekeeper with the Great Falls Wanna-Bee Beekeeping Club, shows the progress of 25,000 relocated honey bees July 26 at Great Falls, Mont. The bees were discovered at Malmstrom Air Force Base, Mont., where they were humanely relocated to a more suitable home on Rogers’ honey bee compound. (U.S. Air Force photo/Airman 1st Class Magen M. Reeves)

such a large number of insects can be costly, and often involves using chemicals in the removal process and could also pose a risk to crop production.

When bees gather nectar from flowers, they move pollen from one plant to another, helping to pollinate approximately 80 percent of all fruit, vegetable and seed crops in the U.S., she said.

After assessing the situation, Belton then made the decision to contact Pierce to seek advice from a professional on how to best handle an unusual situation.

According to Pierce, the bees were clustered in

a 3-foot-long “ball” hanging from a shrub that she estimated to be 10,000 bees in total.

“The bee swarm was on the move from a previous home to find a new one,” Pierce said after examining the situation with Belton. “During this phase they often stop to rest somewhere but they are not territorial, nor aggressive. It was possible to get within a foot or two without disturbing the bee swarm.”

Pierce recognized that the bees were in transit and considered her options.

“The swarm would have (to travel) a tremendous distance to find a new

home,” Pierce said. “The fields east of Malmstrom Air Force Base have nothing but wheat (fields) with no structures for bees to build a hive in.”

According to Pierce, the honeybee population has been declining for several decades.

Pierce then reached out to retired Maj. Brian Rogers, a master beekeeper with the Great Falls Wanna-Bee Beekeeping Club, to see if a humane transportation of the bees to a

suitable home were possible.

According to Pierce, Rogers was interested in relocating the swarm.

Rogers concluded that there were in fact more bees nestled further within the shrub, bringing the total estimated number to 25,000.

Being a master beekeeper, Rogers was able to remove the bees using a cardboard box with slatted interior and a lid. Rogers removed the branches the

swarms were attached to and gently shook the bees off into the box.

Rogers was able to give the bees a new home where they could colonize in a suitable environment and continue to produce honey.

According to Pierce, it was all over in a short time and not one person was stung.

“I definitely consider it a win,” Hunt said. “Most people’s first instinct is to kill bees.”

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