

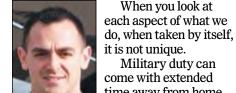
Veterans are heroes for Reserve officer

Commentaries

FORCE BASE, Miss. — From one veteran to another, I want to thank you for your service and the sacrifices vou have made for this great nation.

When I am thanked for my service, it reminds me of a recent conversation I had with my wife, who is also an Air Force Academy graduate. She served on active duty for six years as an astronautical engineer.

The question I asked was, "Why do military members get singled out and thanked for simply doing our job?"



Stuart Rubio 403RD WING PUBLIC AFFAIRS

come with extended time away from home on temporary duties and deployments. Some other professions have to spend time away, such as international business men and women.

When you look at

Military duty can

Military duty includes the possibility of being on-call at all times. And again other professions have on-call duties that they perform, medical professionals for one.

Military duty includes the possibility of being in life Commander's Commentary

threatening situations. But we aren't the only ones, police and fire fighters also put themselves in harm's way.

We finally concluded that what makes those who have served, and those still serving. so special is the combination of all of these sacrifices and many more unnamed by both the service members and their family.

Each have agreed to give up a portion of their individuality in order to join something so much bigger than themselves or their family. And it is that "Service before Self" mentality that has

me in awe of what all veterans have done for their country.

I truly understand that I am one of the lucky ones, because I have served in a time where my service is appreciated by the general public, and I know that not all veterans had that privilege during their service. That is why it is important to say to those veterans that our nation does appreciate everything you did and are thankful to you for your service.

I grew up in a suburb of Philadelphia, a city that has a reputation for being hesitant to welcome in outsiders, especially if you aren't an Eagles, Flyers, Phillies or 76ers fan. During the past few years I was given the opportunity to perform fly-bys

and after we landed, we would rush over to the stadium to attend the remainder of the game in uniform. It was during these times when I was more and more proud of how my hometown welcomed my fellow Airmen as one of their own, simply based on their decision to serve their country. But the most memorable ex-

of a few Phillies baseball games,

ample of appreciation that I have experienced was not in the United States, and it wasn't directed to me. This experience occurred during one of the D-Day memorial events in Normandy, France, where the 815th Airlift Squadron was

See RUBIO Page 23

ICBM recognizes 60 years since first time on alert

Commentary by Troy A. Hallsell

341ST MISSILE WING HISTORIAN

ALMSTROM AIR FORCE BASE, Mont. — On Oct. 31, 1959, the United States Air Force's first intercontinental ballistic missile, the SM-65D Atlas, went on alert at Vandenberg Air Force Base, California.

Assigned to the 576th Strategic Missile Squadron, the U.S. Air Force deployed Atlas ICBMs above ground in a 3-by-1 launch configuration. The missile was 82.5 feet in length, 10 feet in diameter and weighed 276,136 pounds when fueled.

Commentary

It had a range as far as 9.000 miles and was equipped with a W49 1.44-megaton warhead. Given the missile's size, its launch site resembled a small village.

The launch operations building, which housed the launch crew, was a reinforced concrete two-story structure measuring 73 feet by 78 feet.

The guidance operations building that sent course corrections to the missile in flight was a 75 foot by 212 foot one-story building with a reinforced concrete basement.

Finally, the power plant housed three large, diesel generators and water pumps in a 63 foot by 65 foot single-story concrete block building.

Despite the weapon system's short lifespan, it paved the way for the Minuteman ICBM. President Dwight Eisenhower be-

lieved the Atlas could plug the perceived missile gap between the United States and the United Soviet Socialist Republic.

Following the USSR's launch of the world's first artificial satellite, the Sputnik-I, on Oct. 4, 1957, the U.S. accelerated its ICBM program aboard an R-7 Semyorka ICBM.

"These scientific accomplishments of theirs have provided us all with renewed evidence of Soviet competence in science and techniques important to modern warfare," said President Eisenhower. "We must, and do, regard this as a time for another critical re-examination of our entire defense position."

From 1955 to 1957, Congress and the U.S. Air Force increased the ICBM research and devolvement budget from \$161 million to \$1.3 billion, with a \$1.3 billion supplement in 1959 to ramp up ICBM production.

The U.S. Air Force rushed to deploy

See HALLSELL Page 21

Tailwind

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Air Force

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On the cover

Senior Airman David De Alva, **60th Civil Engineer Squadron** pest management technician. sprays hornet's nests with insecticide Nov. 8 at Travis Air Force Base, California.

LLS Air Force photo/Airman 1st Class Cameron Otte

Hellhound innovation saves time, effort, money

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Tech. Sgt. David W. Carbajal

621ST CONTINGENCY RESPONSE WING PUBLIC AFFAIRS

NOVEMBER 22, 2019

shared democratically.'

"Knowledge is power and should be

This is the quote you will find at the desk of Staff Sgt. Timothy Miller, 821st Contingency Response Squadron tactics flight. And this isn't just a quote he appreciates; it's something he lives by.

Miller finished in the top five of 64 Airmen who submitted their innovation to the 2019 Air Mobility Command's Phoenix Spark Tank competition.

"Finding solutions to everyday problems should be everyone's goal," said Miller.

Over the last year, Miller and his team of problem solvers came up with a new way to power tactical airfield lights that are used to guide aircrews in low-light situations in austere airfields. These lights aren't just used by the 621st Contingency Response Wing, but by a number of units through the Air Force.

Historically, these airfield lights were powered by four AA batteries.

"When using the batteries, there was a lot of uncertainty," said Miller. "We never knew how long the batteries would last and the weather conditions wreaked havoc on them."

The AA battery approach gave the airfield lights enough power for a few hours at best, but in February, Miller was motivated by members of the 821st CRS to find a better solution.

"Just like in any brainstorming session, we began by just throwing ideas out there. Some ideas stuck, some didn't," said Miller.

During one of the sessions, Tech. Sgt. Miller. Stephen Stafford suggested the team try using a universal serial bus or USB to



821st CRS building Nov. 14 at Travis Air Force Base, California. As part of Air Mobility Command's Phoenix Spark Tank, Miller and a team of innovators came up with an idea to modify the lights to increase the effective battery life to use while in austere environments.

connector and positive and neutral wires. "That was our 'Eureka' moment," said

The team's next hurdle was to make an adaptor that would complete the cirpower the lights, said Miller. The team cuit the same way the batteries would. did a quick experiment with it and the They decided to experiment with the 3D lights worked, using an impromptu USB printers at the Travis Air Force Base

Phoenix Spark lab.

perience with 3D printers," said Miller.

Staff Sgt. Jared Perry and the rest of the team came up with a design that would replace the batteries in the lights. In June 2019, the team had a working version of the lights and tested them on

a TDY to Fort A.P. Hill, Virginia. Af-"Luckily, for us Sergeant Perry has ex- ter field testing, the team made more improvements to the design and tested them again in September 2019.

> "The lights worked well during our testing at Mobility Guardian," said Miller.

> > **See HELLHOUND Page 22**

TAILWIND 3

Senior Airman Andre Hamilton.

Unit:

Name:

60th Medical Support Squadron.

Duty title: Health services management

echnician. Hometown: Born in Jamaica, raised in Florida.

Family: Spouse, Kari; child, Liam.

What are your goals? Having six-pack abs, owning a mansion in the southern United

Time in service:

Five years.

States, earning a coin for "outstanding performance."

What are your hobbies?

Breakdancing, tumbling, videography, photography, traveling and spending time with family.

What is your greatest

Being the best father I can be and the father I never had to Liam.

4 TAILWIND TRAVIS/AIR FORCE November 22, 2019 **NOVEMBER 22. 2019** AIR FORCE TAILWIND 5

Travis hosts event for Gold Star mothers, families



Karen Meredith, Gold Star mother, gives a speech for the Gold Star Mother's and Family's Day Event Oct. 29 at Travis Air Force Base, California. Gold Star family members and base leaders gathered to honor fallen U.S. service members.

Altus leads first KC-46 landing gear strut removal

Airman 1st Class Breanna Klemm

97TH AIR MOBILITY WING PUBLIC AFFAIRS

ALTUS AIR FORCE BASE, Okla. — The KC-46A Pegasus will take off and land approximately 1,250 times a fore. year during mobility training at the 97th Air Mobility Wing. In turn, this creates strain and wear on the aircraft parts, something the Altus maintenance team constantly keeps close eyes on. The 97th AMW Maintenance Group KC-46 A-Team accomplished a milestone task for the KC-46 program Oct. 8, 2019, when removing a KC-46 landing gear strut for the first time at Altus cause of the scope of repair Air Force Base, Okla.

Following a routine flight,

searching for a solution. The A-Team would have to repack task that had not been done be-

In order to detach the landing gear from the airframe, the KC-46 must be lifted approximately 13 feet off the ground, giving the aircraft enough room for the strut to slide away. Although it flies almost every day, it is a rare sight to see a KC-46 in the air held solely by jack stands.

"This is a huge event for the maintenance group beand the amount of people that get to participate and learn,"

landing gear strut was leak- KC-46A maintenance flight were on site to learn and assist ing hydraulic fluid. The main- chief. "What this crew is do- with the process. tainers got straight to work ing here today is going to set the stage for many generations of maintainers in the futhe strut to repair the leak, a ture which could be doing this same task.

> tunity and training tool for process. maintainers across the Air Force for first task verifications. It additionally facilitated an environment focused on mission-ready and stay at the improvement for maintainers across the Air Force, ensuring all KC-46 supporting units remain mission ready.

Though the A-Team led the repair, they were not alone in the strut removal. Maintainers from Pease Air National Guard Base, New Hampshire, the A-Team noticed a main said Donnie Obreiter, the and McConnell AFB, Kansas, are all on the same page."

KC-46 subject matter experts from local and national Boeing facilities additionally provided their insights highlighting the importance of col-The maintenance repair laboration, allowing the repair served as a learning opporto be a smooth and successful "Training like this is good

for everyone here in maintenance. It helps us remain forefront of the KC-46 enterprise," said Obreiter, "It is really important for something at this magnitude to involve all the other Airmen across the Air Force who could face this problem as well. It is better to work through these types of problems as a team where we

Commissary schedule set for holidays

Defense Commissary Agency Corporate Communications

FORT LEE, Va. — More commissaries will be open on the Mondays before Thanksgiving and Christmas, the Defense Commissary Agency an-

The expanded schedule means patrons at many commissaries will have added days to shop, especially at a number of stores that are normally closed on Mondays:

- Thanksgiving open Nov. 25-27, closed Nov. 28 (Thanks-
- Christmas open Dec. 23-24, closed Dec. 25 (Christmas).
- New Year's Day Open Dec. 31, closed Jan. 1 (New Year's Day).

There are exceptions to the holiday schedule, so patrons are reminded to check the "Store Information & Holiday Hours" box on their store's webpage to confirm their store's operating days.

"DeCA has added extra operating days to its holiday schedule to help patrons maximize their commissary benefit," said Army Command Sgt. Maj. Tomeka N. O'Neal, senior enlisted adviser to the DeCA director. "The money you save on groceries can go elsewhere. Don't forget about the savings on that frozen turkey for just 48 cents a pound."

O'Neal reminds patrons that the following special promotions and online programs are available to help them maximize their benefit over the holidays:

- Make a list and stick to it. The commissary website has lots of holiday recipes. Use these recipes to help make your grocery list. While you're on commissaries.com, check out the Savings Center for the best deals for coupons, sales flyers and featured items.
- The commissary and its industry partners have teamed up to offer a special promotion: a turkey coupon booklet that allows you to save more than \$21 off a turkey with qualifying holiday meal purchases. A limited

See SCHEDULE Page 22

DeCA adds meat alternatives

Kevin L. Robinson

DEFENSE COMMISSARY AGENCY PUBLIC AFFAIRS SPECIALIST

FORT LEE, Va. — Commissaries worldwide are offering plant-based meat options for burgers, ground beef and sausages that are trending well with patrons, said the Defense Commissary Agency's director of sales.

"Many commissaries have long sold vegetarian and plantbased meat products in keeping with consumer demand," said Tracie Russ. DeCA's sales director. "But demand has grown for more of these options, and so we've expanded our offerings in our worldwide network of stores."

There are four new alternative meat options from Beyond Meat that have been added to DeCA's worldwide stock assortment: Beyond Burger, Brat Sausage, Hot Italian Sausage and Plant-Based Ground. As these items have grown in popularity, many commissaries are cross-merchandising wherever possible to give them more exposure.

Plant-based options in commissaries fall in line with what's offered in the grocery/ retail industry at large, where alternative meats are trending high, especially with Millennials (born 1981-1996) and Gen. Xers (born 1965-1980), according to a Nov. 1 Progressive Grocer article.

As the popularity of these new products began to soar, DeCA's sales category management team recognized the trend and added Beyond Meat to the commissary stock assortment, said Darrell Clary, the agency's category manager for meat and seafood.

"The demand for these products is through the roof," Clary said. "Whether it's for health, convenience or taste, our patrons have demonstrated that they want plant-based meat. We are definitely looking at

See ALTERNATIVES Page 21



An Airman from the 19th Civil Engineer emergency management uses Alpha Probe-100 to monitor aircrew members for the presence of alpha radiation contamination as part of a simulated decontamination effort during phase II-B of ROCKI 20-01 Nov. 16 at Little Rock Air Force Base, Arkansas. Phase II-B marked the first time the radiological domain was tested as a portion of the exercise.

Bioenvironmental paves way for radiological operations

Airman 1st Cass Jayden Ford 19TH AIRLIFT WING PUBLIC AFFAIRS

LITTLE ROCK AIR FORCE BASE, Ark. — The 19th Operational Medical Readiness Squadron Bioenvironmental Flight led the way during November's ROCKI 20-01, a multiplephase full spectrum readiness exercise, by providing essential information to commanders about the effects chemical and radiological hazards have on Air-

of the exercise. Phase engineer. II-A consisted of simulated chemical threats and phase II-B involved operating in a simulated radiological environment. Bioenvironmental Airmen had to make determinations on what protective measures should be taken in order for Airmen to safely continue operations.

"As bioenvironmental engineers, our ultimate goal is to optimize the performance of Airmen through their health," said The team's efforts were 1st Lt. Santino Cozza, 19th chemicals and radiation,

tested during phase II OMRS bioenvironmental

Radiological and chemical hazards are potential threats to Airmen in contingency operations. While protecting assets during such threats is vital to mission success, the 19th OMRS Bioenvironmental Engineer Flight protects road." the Air Force's most important assets – Airmen.

"We care about the human aspect and what happens to the body when it taining the mission in any is exposed to things like

said Staff Sgt. Crystal Przybylski, 19th OMRS bioenvironmental engineer. "We determine how long it will take for your body to start degrading in any aspect, whether it's acute radiation sickness, burns or long term chronic effects that you might feel down the

The dangers of radiation exposure makes the push for radiological readiness essential for sus-

See PAVES Page 23

6 TAILWIND November 22, 2019 AIR FORCE

Women's Leadership Symposium inspires growth

Marisa Alia-Novobilski

AIR FORCE MATERIEL COMMAND PUBLIC AFFAIRS

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — The Air Force Materiel Command hosted its inaugural Women's Leadership Symposium Nov. 13-14 with the theme of "Empower, Encourage and Embrace" to focus on women leadership and diversity in the workplace.

The two-day event drew more than 250 attendees from across the command. The symposium featured keynote speakers, issue-focused panels and collaborative networking discussions designed to empower women to help foster workplace environments that embrace diversity Maj. Julie Glover, symposium and promote leadership growth throughout the organization.

"We are the most diverse command in the United States

Air Force, and the make-up of females in the military is much higher now than when I entered in 1984," said Gen. Arnold W. Bunch Jr., AFMC commander, during opening remarks Nov. 13. "We need to make sure we give you opportunities to grow and develop, and we need to foster an environment where you can thrive in the workplace each and every day."

While the Air Force is working diligently to address a number of initiatives focused on the needs of female warfighters, to include uniform fit, childcare. maternity issues and more, there is still a need to address those "hard" issues that often get overlooked in the workplace, said

"There are so many



U.S. Air Force photo/Scott M. Ash

Lt. Gen. Jacqueline Van Ovost, Headquarters Air Force director of staff, provides remarks during the inaugural Air See SYMPOSIUM Page 21 Force Materiel Command Women's Leadership Symposium Nov. 13 at Wright-Patterson Air Force Base, Ohio.

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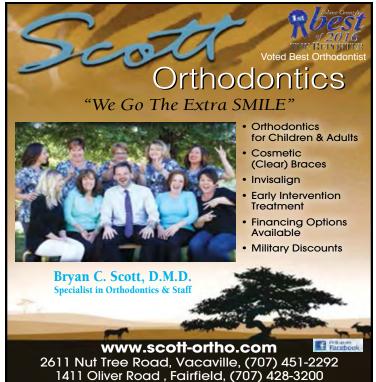
US, Norwegian student pilots train in F-35 course



U.S. Air Force photo/Airman Brooke Moeder

Capt. Roland Neal. 62nd Fighter Squadron fighter pilot student. prepares for his first flight in the F-35A Lightning II, Oct. 1 at Luke Air Force Base, Arizona.





Airman Brooke Moeder 56TH FIGHTER WING PUBLIC AFFAIRS

Editor's note: Due to foreign partner sensitivities, the names of the Royal Norwegian Air Force members are undisclosed.

LUKE AIR FORCE BASE, Ariz. — In a span of eight demanding months, four 62nd Fighter Squadron student pilots – two U.S. and two Norwegian will learn the ins-and-outs of the F-35A Lightning II as they train through the first-ever allied F-35 basic flight course, or B-course, beginning as novices and developing into proficient and lethal fighter pilots.

The 62nd FS activated in

January 2015 at Luke Air Force Base as a joint international effort between Italy, generation fighter on varying Norway and the United States for F-35 training. Student pilots from each of the three na- with the F-35 and its compotions fly Italian, Norwegian nents. and American F-35s under the guidance of American and Norwegian instructor pilots.

"This is the first allied basic course ever in the F-35," said Lt. Col. Christopher Hubbard, 62nd FS squadron commander. "Previously, only U.S. pilots learned to fly the get a feel for what it's like to F-35 as their first fighter jet have 40,000 pounds of thrust straight out of pilot training. Now, for the first time ever, Norwegian pilots are training right alongside American pilots in the F-35 B-course."

The student pilots took their first flights in the fifthdates in September and October, familiarizing themselves

"The first flight was awesome," said U.S. Air Force 1st Lt. Nathanael Zilllweger, 62nd FS fighter student pilot. "It's interesting because in the simulator you can't feel the jet at all. On your first flight the jet rumbles a little bit so vou at your back. That was probably the best thing for me."

The students employed their training as they taxied See F-35 Page 20





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Vacaville Church of Christ 401 Fir St., Vacaville, CA 95688

(707) 448-5085 Minister: Ryan Brewer Sunday Morning Bible Study 9:30 AM

Sunday Morning Worship 10:30 AM

Sunday Evening Worship 6:00 PM Wed. Evening Bible Study

7:00 PM www.vacavillecofc.com

Saturdays

6:00 pm

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8:00, 9:30, 11:30 am,

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NON-DENOMINATIONAL

TAILWIND 9



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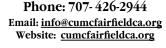
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10 TAILWIND **NOVEMBER 22, 2019** November 22, 2019 AIR FORCE



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GRAND OPENING



National Guard cyber teams asset in cyber defense

Sgt. 1st Class Jon Soucy

NATIONAL GUARD BUREAU PUBLIC AFFAIRS

ARLINGTON, Va. — National Guard members continue to be an integral element in cyber defense, the Guard's top general said during a recent roundtable discussion at the Pentagon on the cyber mis-

"When I first joined the National Guard, cyber was not part of our vocabulary," said Air Force Gen. Joseph Lengyel, National Guard Bureau chief. "Now, it's one of our daily battlegrounds."

More than 3,900 troops make up the Guard's cyber element, Lengvel said, adding that includes traditional part-time units as well as full-time units ber Command.

ways provides two (cyber protection teams), and on the that are continuously mobilized Command and the cyber mission force," Lengvel said.

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Texas and Louisiana.

"In May, one county - Jackson County - got hit with ransomware," said Army Maj. Gen. Tracy Norris, Texas National Guard adjutant general. "It disrupted county services. People weren't able to transfer property, the police doing a background check weren't able to pull up that information."

sistance, Norris said.

"We had people out there within 12 hours to do an assessment on what had happened and to get that county back online," Norris said. "We helped them get to a recovery point that work directly for U.S. Cy- where their IT professionals "The Air National Guard alty back to where it could deliver services."

called out.

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County officials realized that a response to the attack was beyond the scope of their information technology staff and looked to the Guard for as-

could come in and get the coun-

That, it turned out, was just Army side, the Army (Nation- a dress rehearsal. A month latal Guard) always provides one, er, 22 Texas counties were hit with ransomware attacks, and and doing duty for U.S. Cyber again the Texas Guard was

"Immediately the (Tex-Guard cyber teams have as) Department of Emergency also responded in support of management called over to us local and state authorities, in- and we got people on the phone cluding earlier this year in to assess and figure out where

to go to start (responding to the attack)." Norris said.

From there, a team of 50 or so Soldiers and Airmen responded to get the networks back online. Norris said, adding it took about two weeks to get everything back to normal.

Jackson County, the county hit in the May attack, was also one of the 22 counties hit in June, but the attackers were quickly stopped.

"They did not get past (the network) firewall," Norris said, adding that was in large part because of measures Guard

See CYBER Page 20



Airman 1st Class Thomas Schoening, 153rd Airlift Wing cyber transport systems specialist, oversees server room operations Nov. 1 at the **Cheyenne Air National Guard Base, Wyoming.**



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12 TAILWIND AIR FORCE November 22, 2019

New tool crib has measurable impact

Senior Airman Cody R. Miller

JOINT BASE CHARLESTON PUBLIC AFFAIRS

JOINT BASE CHARLES-TON. S.C. — Airmen procured an automated tool crib to streamline flightline processes and improve maintainer quality of life in the shop Nov. 8 at Joint Base Charleston, South Carolina.

After identifying a problem with time consuming processes, Airmen from the 437th Aircraft Maintenance Squadron Support Flight tool room researched ways to improve one of their most daunting tasks of keeping their benchstock supply at the appropriate levels to accommodate the C-17 Globemaster III high ops-tempo at JB Charleston.

"This new piece of equipment really shortens our processes," said 2nd Lt. Estera Leavelle, 437th AMXS Support Flight officer-in-charge. "It's also able to help us maintain accurate records more effectively and efficiently."

628th AMXS Airmen teamed up with 628th Contracting Squadron to acquire an automated benchstock machine that vends various aircraft parts such as screws, nuts, washers and light bulbs.



U.S. Air Force photo

Staff Sgt. Slade Muraira, 437th Aircraft Maintenance Squadron shift leader, shows his shop members how to check out tools using their new automated tool crib Nov. 8 at Joint Base Charleston, South Carolina.

The machine updates the program manager via email on to acquire this piece of equipthe quantity levels of each part ment, we were denied the first bin by weight. This initiative time because of funding and hours a year by reducing the again," said Staff Sgt. Slade time spent counting thousands of miscellaneous aircraft parts and hardware. The automation of the initial Airmen to apply frees up one Airman per shift for the tool crib. "It took a lot of from manning the program.

Muraira, 437th AMXS Viper phone calls to other bases and

1245 Illinois St., Fairfield, CA

"It took a few years for us units that already had the machine. We wanted to do our research and be sure that this was the right call in purchaswill save the section over 1,000 had to start the process over ing it for our unit. In three years it'll pay for itself with the amount of labor it saves. Tool Room shift leader and one Everything after that is profit as far as man hours are concerned."

Mauraira said the tool crib

will have a positive impact on all of the flightline Airmen and operations, not just his shop.

"Everyone that works on the flightline could have a hand on some of the tools we have in our shop," Muraira said. "This will help us keep 100% accountability on any tools that we give out. Everyone comes through us, we have a tool box for everyone."

In the last few years, the Air Force has been driving an innovation initiative to help the force keep up with evolving technologies and systems.

In an address to the Air Warfare Symposium in February of 2018, Chief Master Sergeant of the Air Force Kaleth O. Wright stressed the importance of innovation and allowing young Airmen to try and fail at new methods to keep the Air Force current, lethal and efficient.

"Some of you in this room will take to war in 10 to 20 years," Wright said. "So. we have to think about the technology and the innovation that we need 10 to 15 to 20 years from now. We have to start thinking about it and start building it right now. Do you have a culture in your organization that

See TOOL CRIB Page 20



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CBD products not OK to use, Air Force says

Secretary of the Air Force Public Affairs

ity as an ingredient in health answer is no. These products may contain

tetrahydrocannabinol and can cause Airmen to test positive during a urinalysis for the pres- monly known as marijuana, ence of marijuana, which is il- and is found in many products legal to consume under feder- - gummy bears, teas, vapes, loal law and Air Force Instruction tions, bath salts and even pet 90-507, "Military Drug Demand Reduction Program."

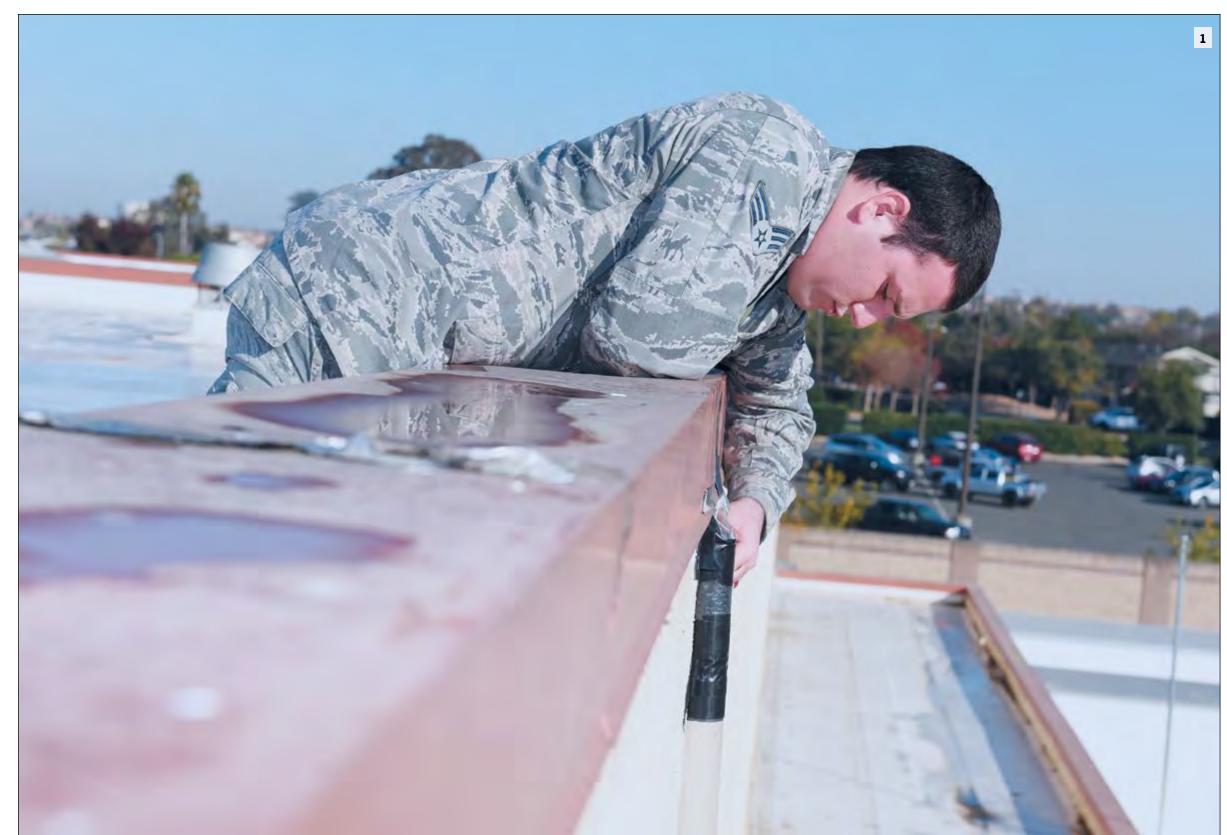
"It's important for both uniformed and civilian Airmen to understand the risk these prod-WASHINGTON, D.C. — ucts pose to their careers," said Cannabidiol oil, also known as Mai, Jason Gammons, Air Force CBD oil, is growing in popular- Office of The Judge Advocate General spokesperson. "Prodand pet products, but is it okay ucts containing unregulated levfor service members and feder- els of THC can cause positive al employees to use? The simple drug tests, resulting in the same disciplinary actions as if members had consumed marijuana."

CBD oil is derived from the Cannabis sativa L. plant, com-

See CBD OIL Page 18

14 TAILWIND November 22, 2019

Pest management keeps Travis mission ready



1) Senior Airman David De Alva, 60th Civil Engineer Squadron pest management technician, checks traps to see if there is any evidence of bats crawling through the pipes Nov. 8 at Travis Air Force Base, California. De Alva is trying to rid a building of bats by waiting for them to leave and blocking all entrances before they return, 2) De Alva puts on his gas mask to check if the filters are working properly Nov. 8 at Travis, 3) De Alva sets down a trap to catch vermin Nov. 8 at Travis. De Alva places traps around the base to capture unwelcome critters.

Airman 1st Class Cameron Otte

60TH AIR MOBILITY WING PUBLIC AFFAIRS

Once called upon, he springs into action. Pulling up his Tyvek protective coveralls, donning his gloves, tying his boots, and checking his gas mask filters, Senior Airman David De Alva, 60th Civil Engineer Squadron pest management technician, is ready to rid a building from infestation.

"Travis is like anywhere else. It's not just a base it's a community with buildings, homes and people," said Tech. Sgt. Daniel Fink. 60th CES noncommissioned officer in charge of pest management. "Food and shelter tend to attract wildlife and we are here to keep them on the

De Alva removes and eliminates pests around base.

"Our mission here on Travis Air Force Base entails removing, killing and clearing out pests from locations customers have requested pest assistance for," De Alva said. "We set up traps and/or poison to remove the critters from the buildings so Airmen can get their mission done and be comfortable while doing it."

The Pest Management Office prides itself on looking into more permanent solutions for ridding the base of pests.

"Our office works a little different from off-base contractors: we look into long-term solutions with pests." Fink said. "Rather than clean up the problem and leave, we set up precautions to keep the insects and vermin away even after we leave."

The Pest Management Office may rid the base of bugs, but there's a lot more than just insects that find their way onto the installation.

"We handle anything from ants to coyotes. If they are on Travis, we will get rid of them," De Alva said. "For most of the bigger animals like cats or raccoons, we will usually catch them and try to find a shelter or release them, far enough from Travis so they won't return."



Not only does the Pest Management Office affect other offices on base, they also enable the flying squadrons to rapidly project American power.

"When aircraft visit certain locations, there is a risk of bringing back foreign insects or animals with them," said De Alva. "This could lead to the spread of disease or sickness to an area where the local population may not have a built immunity, which could start an epidemic. We spray down aircraft with an aircraft spray to kill and repel insects, so we can complete the mission without risking the health of the public."

Without the Pest Management Office, the mission at Travis could be negatively impact-

"There would be frequent infestations of various insects, rodents, and in some cases, larger creatures would roam the base unhindered," Fink said.

"Eventually Airmen would struggle to do their jobs because they would be too busy trying to kill insects and vermin themselves and wouldn't be able to focus on their tasks," said Fink.



"We are here to provide a high standard of life, pest free."

Knowing how important pest management is to the largest

"It feels pretty awesome knowing that what I'm doing with my life has relevance to Alva said.

A team of five Airmen persion and often go unnoticed, we will take care of it."

which is a good thing, said Fink

"Generally people aren't aware Travis even has a Pest Management Office and that's mobility wing in the Air Force good because if you are seeking fills De Alva with a sense of pur- us out, it's probably because you have a pest problem," Fink said. "During a duty day, we would all rather focus on getting our work done rather than avoiding or others and is making an impact hunting insects in the office and to the Air Force's mission." De that's why we are here. Whenever you find yourself being bothered or your work being hinform the pest management mis- dered by pest give us a call and

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Puzzles

STR8TS Easy Previous solution - Medium

repeat in any row or column. But... rows and columns are divided by black squares into compartments. These need to be filled in with numbers that omplete a 'straight'. A straight is a set of numbers with no gaps but can be in any order, eg [4,2,3,5]. Clues in black cells remove that number as an option in that row and column, and are not part of any straight. Glance at the solution to

How to beat Str8ts -

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Like Sudoku, no single number can

Previous solution - Medium

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that each row, column and 3x3 box

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by entering numbers 1 to 9 such

contains every number uniquely.

SUDOKU

No. 465 Tough									
	8			5	1		7		
	4		8	2			3		
					4			2	
	3						1	9	
5				9				8	
4	7						6		
1			7						
	6			4	5		8		
	9		1	3			5		

The solutions will be published here in the next issue

Retiree Corner

Art Contest offers chance to showcase creativity

JOINT BASE SAN AN-TONIO-LACKLAND, Texas — The Air Force Services Center announced that the 2019 Air Force Art Con-rale, welfare and recreation test is open for submissions programs. through Nov. 30. There

are various categories for adults and youth.

The contest, part of the Air Force's arts and crafts program managed by AFS-VC, is open to all authorized patrons of Air Force mo-

- Air Force News Service

Chapel programs

Recurring events Catholic

Twin Peaks Chapel

- Roman Catholic Mass: 9 a.m. and noon
- Children's Church: 10:15 a.m. Sunday • Sacrament of Reconciliation/Confession:
- 4:30 to 5:30 p.m. Wednesday or upon
- Infant Baptism Prep Class: Two classes. Registration required. 6 to 7 p.m., quarterly.
- Youth Choir: 1 p.m. Sunday.
- Children's Choir: 2 p.m. Sunday.
- Adult Choir: 4 p.m. Sunday.
- Women's Bible Study: 10 a.m. (at First Street Chapel).
- Catholic Women of the Chapel: 6 p.m. first Monday of every month, Annex. • Rite of Christian Initiation of Adults: 6 to
- 7:30 p.m. Wednesday, Annex RF Classes: 10:15 to 11:30 a m. Sunday
- RE Wing.

First Street Chanel

 Mom's Group: 9 to 11:30 a.m. Thursday and Friday.

DGMC Chapel

• Roman Catholic Mass: Noon to 12:35 p.m. Monday through Thursday, except for federal holidays

The Church of Jesus Christ of Latter-day Saints

• Sacrament services: 9 and noon Sunday at Church of Jesus Christ of Latter-day Saints Fairfield Stake Center, 2700 Camrose Ave.,

DGMC Chapel

• Latter-day Saints Service: 4 to 4:30 p.m. Sunday at DGMC Medical Center Chapel.

 For all other inquiries, call LDS. Military relations representatives at 707-535-

Protestant First Street Chapel

- Protestant Community Service: 9:30 to 10:30 a.m. Sunday
- Gospel Worship Service: 11:30 a.m. to 12:30 p.m. Sunday.
- · Children's Ministry is provided for
- 6-month-olds through fifth grade.
- Protestant Men of the Chapel, 6 to 8 p.m. every second and third Tuesday of the month at First Street Chapel Annex, vice 8 to 9 a.m. first Saturday of the month
- Moms Group. Jesus Cares ministry, EFMP children's ministry, 4:30 to 6:30 p.m., every third Saturday of the month at First Street Chapel Annex

Twin Peaks Chanel

 Protestant Women of the Chapel: 9:30 to 11 a.m. Tuesday.

DGMC Chapel

• Protestant Traditional Service: 10 to 11 a.m. Sunday.

Airmen's Ministry Center

• The Peak is open from 5:30 to 9 p.m. Monday through Friday at Bldg. 1348. Home-cooked meal from 6:30 to 7:30 p.m Tuesdays followed by Bible study.

For more information about chapel programs, call Twin Peaks Chapel at 707-424-3217.

Recurring

...

Air Force Office of Special Investigations. To report a crime, get a foreign travel brief

or request information on joining AFOSI, report to Bldg. 380B, second floor. Send correspondence to AFOSI Detachment 303, 510 Airlift CR. Travis AFB, 94535. For more information, call 707-424-3115 or DSN: 837-3115.

Air Force Recruiting Office. Now open at the Solano Town Center mall. Learn more about what the Air Force has to offer such as up to 100-percent tuition assistance, 30 days paid vacation per year free medical and dental care tax-free housing and food allowance and much more. Contact Tech. Sgt. George Yardlev at 707-889-3088 or stop by the office located at 1350 Travis Blvd., Suite P2, Fairfield, in the Solano mall.

Air Force Sergeants Association "Walter E. Scott" Chapter 1320. General membership meetings are at 2 p.m. on the second Friday of each month at Wingman's in the Delta Breeze Club and include a free breakfast. For more information, contact Master Sgt. Reynoldo Rios or Master Sgt. Rosel Agapay.

Airmen's Attic. The Airmen's Attic is open from 10 a.m. to 2 p.m. Tuesday and Thursday and 4 to 6 p.m. Wednesday. 560 Hickam Ave. For more information, call 707-424-8740 or visit the Facebook page "The Attic at Travis AFB."

Alzheimer's Caregiver Support Group. Meetings take place from 1 to 2:30 p.m. the third Thursday of the month in the diabetic education classroom on the first floor in Internal Medicine at David Grant USAF Medical Center. For more information. call 707-423-7227.

Base emergency numbers. Mobile phone users must dial 707-424-4911 if they have an emergency on base. Those using government or home phones can call 911. For more information, call the Travis Air Force Base Fire Prevention Office at 707-424-3683.

Base illicit discharge number. To report sewage/water leaks or illegal dumping, call 707-424-2575. For hazardous chemical/material spills, call the base emergency numbers.

Civilian Health Promotion Services. Will perform free wellness screenings from 7:30 to 9:30 a.m. every Monday for all DoD federal civilians. Screenings include cholesterol, glucose, blood pressure and body composition analysis. For more information, visit www.AFMCwellness. com or contact CHPS at 707-424-CHPS or CHPSTravis@foh.hhs.gov.

Combat Arms Firing Range. Bldg. 1370, located 200 vards northeast of perimeter road in the northeast corner of Travis is off limits to all personnel. Trespassing is not only illegal, but extremely dangerous due to live weapons firing Anyone requiring entry into the area or needing further information should contact the base Combat Arms Section at 707-424-2122 or visit at 700 Vandenburg Drive, Bldg 1219 Travis AFB, CA

Crisis text line. Free, confidential, 24/7 counseling for teens and young adults. Text 741-741 anywhere in the United States and a live, trained crisis counselor responds quickly.

Employee-Vehicle Certification and Reporting System. Civilian and military personnel must maintain emissions information with the Web-based ECARS system. For more information, call Xuyen Lieu at 707-424-5103.

Exceptional Family Member Program Sensory Play Group. This group meets from 2 to 4 p.m. the second and fourth Wednesdays at the Balfour Beatty Community Center. For more information, call 707-424-4342 or visit the Facebook page "EFMP Travis AFB."

Family Advocacy Parent/Child play **groups.** Toddlers to the Max play group for children ages 1 to 3 meets from 9:30 to 11 a.m. Wednesdays at the First Street Chapel Annex. The Rattles to Raspberries play group for infants 8 weeks to 1 year meets 9:30 to 11 a.m. Thursdays at the First Street Chanel Annex For more information, call 707-423-5168.

Family and Friends Combat Stress Peer **Support Group.** Meets from noon to 1 p.m. the first Tuesday of every month at the Balfour Beatty Community Center and from 1 to 2 p.m. the third Thursday of each month at The Peak. For more information, contact Amber Ouirate and Jessica Soto at 501-231-7756 or emai travsopcombatptsd@gmail.com.

Government no-fee passports. All submissions of applications for government no-fee passports must now include: 1) A photocopy of Military Identification Card front and back; 2) Passport photo taken in the past six months; 3) Supporting document(s), proof of U.S. citizenship certified copy with state or county seal, if it involved a name change submit a court order or marriage certificate. Passport application cannot be handwritten and printed back to back and must be completed online with 2D barcode at website https://pptform.state.gov and/or https://travel. state.gov. For more information, call 707-424-5324.

Hometown News Releases. To submit a Hometown News Release, visit https://ihns.release.dma.mil/public and fill out the information

Mare Island Museum, Open 10 a.m. to 2 p.m. Monday through Friday and 10 a.m. to 4 p.m. Saturdays, 1100 Railroad Ave. in Valleio. For more information, call 707-557-4646. M-50 Gas Mask Fit Testing. Takes place

from 9 a.m. to 3 p.m. every Wednesday at Bldg. 791. All deployers are fit as necessary. For more information, call 707-424-2689.

Mitchell Memorial Library. Open 9 a.m. to 7 p.m. Monday through Thursday, 9 a.m. to 5 p.m. Friday, 10 a.m. to 5 p.m. Saturday and closed

MPF self-renewal program. Did you know that dependents can now renew their ID cards online? To participate in this program, visit http:// bit.ly/2mR1gl2. This program is limited only for renewing dependents' IDs. For all other services. visit MPF during duty hours or call 707-424-8483.

On-base child care. The Air Force requires on-base residents to be licensed by the 60th Mission Support Group if they provide more than 10 hours of care per week in their homes. For more information, call 707-424-8104 or 707-424-4596 or stop by Bldg. 380B.

News Notes

Job opening. The 349th Air Mobility Wing is accepting applications for the flight chief position of the development and training flight. Ideal candidates will be in the rank of technical sergeant or master sergeant (staff sergeants may apply, and will be considered, on a case-by-case basis). Applicants should exceed Air Force standards for dress, appearance and fitness. This position will be a RPA tour with a six-month probation period, with a two-year minimum commitment Applications must be submitted by Dec. 5. To get an application or for more information, contact Tech. Sgt. Danielle Eaton at danielle.eaton.1@us.af.mil or call 707-424-0986.

Photocopying of military identifica-

tion. The prohibition of photocopying of U.S. government identification Common Access Card announced by the Office of the Assistant Secretary of Defense, dated Oct. 27, 2011, does not apply to medical establishments, applying for government-issued, no-fee passport and other U.S. government agencies in the performance of official government business. This requirement does not apply to minors ages 16 or younger. However, it applies to sponsors. For more information, call 707-424-5324.

Professional Loadmaster Association. The Professional Loadmaster Association meets at 7 p.m. the first Tuesday of each month at the Delta Breeze Club. For more information, call Mark Raymond at 707-416-5331.

Retiree Activities Office. Openings for volunteers Customers are retired American service members and their family members. It is the RAO's responsibility to maintain open communication and to ensure retirees receive the service and the respect they deserve. If you would like to apply for a volunteer slot and have three hours or more to give, call 707-424-3905.

Solano/Napa Habitat for Humanity. This organization welcomes volunteers and supporters from all backgrounds. There are recurring events Tuesday through Saturday. For more information, email Staff Sgt. Mathew Clayton at mathew.clayton@us.af.mil.

Travis Community Thrift Shop. 10 a.m. to 2 p.m. Tuesday and Thursday. Ongoing need for volunteers to organize, sort and price donations. For more information, contact the Thrift Shop at 707-437-2370

Travis Composite Squadron 22 Civil Air Patrol. Open to youth from 12 to 18 as well as adults ages 18 or older who train and serve as the volunteer component of the total force. UTA is 6:30 to 9 p.m. Monday, Bldg. 241-B-2. Open to all students with a 2.0 or higher grade-point average. For more information, contact CAP 1st Lt. Jo Nash at 707-424-3996 or recruiting@squadron22-cap. us, visit during a UTA or check out http://

squadron22-cap us

Travis Air Force Base Heritage Center. Open 10 a.m. to 5 p.m. Tuesday through Saturday, Bldg. 80, 461 Burgan Blvd., Travis Air Force Base. Escorts required for general public,

call center to arrange. Free. 707-424-5598. www.travisheritagecenter.org. Travis Legal Office. Power of attorney and notaries are walk-ins 9 a.m. to 2 p.m. Monday, Tuesday, Wednesday and Friday, 9 a.m. to 1 p.m. Thursday. Legal assistance for active duty members and dependents are

walk-ins from 2 to 3 p.m. Tuesday. For all wills

and retiree legal assistance, call 707-424-3251 to make an appointment. Voluntary Leave Transfer Program The following Travis employees are approved as leave recipients through the Voluntary Leave

- Transfer Program: Rebecca Austria, 60th Maintenance
- John Butler, Special Tactics Training Sauadron
- · Jaqualynn Cabanlit, Travis AFB Commis-
- Neftaly Clark, 1st Special Operations
- Force Support Squadron. Bradley Griffith, 60th Maintenance
- · Rabiye Hamilton, Travis AFB Commis-
- Patrick Hodge USTRANSCOM, Scott
- Mark Holmes, 10th Contracting
- Squadron Dina Patterson-Steward, 60th Aerial Port
- Squadron Jason Perkins Grand Forks AFB
- Gina Silva, Air Force Academy headquarters
- Jean Sommer, Travis AFB Commissary
- Maria Thammasen, 60th Force Support Sauadron · Dennis Weaver, Air Force Manpower

Agency. The VLTP allows an employee who has a

Here are the showtimes for this weekend's

Today

• 6:30 p.m. "Frozen 2" (PG, first run) Saturday

movies at the Base Theater:

- 2 p.m. "Frozen 2" (PG, first run) • 6:30 p.m. "Frozen 2" (PG, first run)
- Sunday • 2 p.m. "Frozen 2" (PG, first run)

For more information on the Reel Time program. visit https://bit.lv/2JG2nDU

medical emergency or is affected by a medical emergency of a family member and is without availability of paid leave to receive transferred annual leave directly from other employees. For more information, call 707-424-1720.

Tuskegee Airman Lee A. Archer **Chapter.** Meets at 3 p.m. the third Saturday of the month at the Airman and Family Readiness

What's Cookin' Wednesday. Free lunch at the Travis AFB USO Bldg. 1348. Served from 11 a.m. to 1 p.m. every Wednedsay. For active duty. Guard. reservist and their families.

Local events

Events

"Messiah" concert. 7:30 p.m. Dec. 1, St. Mary's Catholic Church, 350 Stinson Ave. Vacaville. Free, 816-6591.

"Sounds of Suspense." Radio broadcast noon fourth Friday of each month Vacaville Public Library-Town Square, 1 Town Square Place, Free, www.solanolibrary.com.

Vallejo Art Walk. 5 to 10 p.m. second Friday of each month, downtown Valleio, Free admission. www.vallejoartwalk.com.

Valleio Farmers Market, 9 a m to 2 p.m. Saturdays, year-round, Georgia and Marin streets, www.pcfma.com.

Vintage Market. 9 a.m. to 2 p.m. every third Saturday, St. Paul's United Methodist Church, 101 West St., Vacaville. 925-978-

Music and dance

City Sports Bar and Grill. Music begins at 9 p.m.: Delta OG, Nov. 22; DJ Aaron, Nov. 23: 7155 Browns Valley Parkway, Vacaville. 455-7827, www.starsrecreation.com.

Downtown Theatre. Ultimate Elvis Tribute Concert, 7 p.m. Nov. 30; B Sharp's 18th Annual Awards Show, 3 p.m. Dec. 1; 1035 Texas St., Fairfield. www.downtowntheatre.com.

Empress Theatre. Sun Kings perform The White Album, 8 p.m. Nov. 23; Full Chizel, 7:30 p.m. Nov. 27; Stef Burns & Peppino D'Agostino, 8 p.m. Nov. 30: 330 Virginia St. Vallejo. 552-2400, www.empresstheatre.org.

First Street Cafe. Carmen Gonzalo, 2 p.m. Nov. 24; Doug Houser, 7 p.m. Nov. 29; Parts & Labor, 7 p.m. Nov. 30; 440 First St.. Benicia. 745-1400, www.firststreetcafe.com

The Rellik. 5 O'clock Somewhere, 8:30 p.m. Nov. 22; Uncle Buck, 8:30 p.m. Nov. 23; Spill the Wine, 8:30 p.m. Nov. 29; Jupebox Johnny, 8:30 p.m. Nov. 30; 726 First St., Benicia. www.therelliktavern.com.

Solano Symphony. Holiday Celebration, aratafineartgallery.com. 3 p.m. Dec. 8, Vacaville Performing Arts through Dec. 20: open noon to 5 p.m. Theatre, 1010 Ulatis Drive. www.solanosym-Wednesday through Sunday during exhibitions, phony.org. 991 Taylor St., Suite 114, Benicia, Free.

Solano Winds. Celebrating America's Heritage, 8 p.m. Dec. 6, Downtown Theatre, 1035 Texas St., Fairfield, www.solanowinds.org.

Vacaville Performing Arts Theatre. House of Floyd, 8 p.m. Nov. 23; Big Band Christmas, 3 p.m. Nov. 30; Christmas in My Hometown, 7 p.m. Nov. 30; 1010 Ulatis Drive. 469-4013, www.vpat.net.

2 p.m. Saturday, 5 to 10 p.m. second Friday of Vallejo Jazz Society. Jennifer Lee, 5 p.m. Dec. 1, Empress Theatre, 330 Virginia St., the month, 253 Georgia St., Vallejo. www. valleioartwalk.com. Vallejo. https://vallejojazzsociety.net.

Vallejo Symphony. "Iconclast," 8 p.m. Fairfield-Suisun Visual Arts Association Gallery. Juried Art Show, through Jan. 5; Feb. 29, 3 p.m. March 1, Empress Theatre, open 11 a.m. to 6 p.m. Wednesday through 330 Virginia St., Vallejo. https://vallejosympho Sunday, Solano Town Center, 1350 Travis Blvd. Suite D8, Fairfield. 688-8889, www.fvaa-arts. Theater

"Frozen Jr." 8 p.m. Nov. 22-23, 2 p.m. Nov.

"No Room." 8 p.m. Dec. 6-7, Dec. 13-14, 3

23-24, 6 p.m. Nov. 24, Downtown Theatre, 1035

Texas St., Fairfield. www.downtowntheatre.com.

p.m. Dec. 8, Dec. 15, Harbor Arts Center, 720

Main St., Suisun City. www.suisunharbortheater

Area Stage, 515 Broadway St., Suite H, Vallejo.

through Nov. 24; Victoria Veedell and Manon

Jodoin, Nov. 24 through Jan. 12; open 11 a.m.

to 5 p.m. Thursday through Saturday, 1 to 5

p.m. Sunday, 637 First St., Benicia. https://

Arts Benicia. "Table Testaments,"

Benicia Plein Air Gallery. Maria

5 p.m. Thursday through Sunday, 307 First St.,

Benicia. 495-2940, www.beniciapleinair.com.

Cal Maritime Community Art Gallery.

Open studios, through Dec. 28; open 10 a.m. to

747-0130, www.artsbenicia.org.

Art exhibits

Arata Fine Art Gallery. Barbara Fracchia,

www.bayarestage.org.

Gallery 621. "Microcosmos," through Dec. 1: open noon to 6 p.m. Thursday through Sunday, 309 First St., Benicia. 297-6960, www gallery621 com

Georgia Galleria. Open 3 to 8 p.m. weekdays 10 a m to 3 n m Saturdays 419 Georgia St., Suite 15, Vallejo. www.facebook. "Scrooge! The Musical." 8 p.m. Dec. 6-7, com/womenandminorityartistart 13-14, 20-21 3 p.m. Dec. 8, Dec. 15, Dec. 22, Bay

Jen Tough Gallery. Open 1 to 6 p.m. Friday. 11 a.m. to 7 p.m. Saturday. 11 a.m. to 6 p.m. Sunday, 942 Tyler St., Benicia. www. ientough.gallerv.

Lawler House Art Gallery. "White Noise," Nov. 22 through Jan. 18: open noon to 4 p.m. Friday through Sunday, 718 Main St., Suisun City, www.lawlerhousegallery.org.

The Little Art Shop. Open 11 a.m. to 5 p.m. daily, 129 First St., Suites D & E, Benicia. 771-6667, www.thelittleartshop.com. Marilyn Citron O'Rourke Gallery.

"Shipping Lanes," through Dec. 5; open 10 a.m to 9 p.m. Monday through Thursday, noon to 6 p.m. Friday through Sunday, 150 E. L St., Benicia, www.benicialibrary.org. SantoStefano, through Dec. 1; open 11 a.m. to

Vacaville Art League Gallery. Open show, through Nov. 30: Annual Holiday Show. Dec. 14 through Jan. 18; open noon to 4 p.m. Tuesday through Saturday, 718 E. Monte Vista Ave. Free. 448-8712, www.vacavilleartgallery.org.

"NEWS NOTES" BRIEFS MUST BE SUBMITTED TO 60AMWPA@US.AF.MIL SEVEN DAYS BEFORE THE EVENT DATE. CALL THE 60TH AIR MOBILITY WING PUBLIC AFFAIRS OFFICE COMMAND INFO SECTION AT 424-2011 FOR MORE INFORMATION.

November 22, 2019 AIR FORCE TAILWIND 17

Art contest offers chance to showcase creativity

Victoria Ribeiro

AIR FORCE INSTALLATION AND MISSION SUP-PORT CENTER PUBLIC AFFAIRS

JOINT BASE SAN ANTO-NIO-LACKLAND, Texas — The Air Force Services Center announced that the 2019 Air Force Art Contest is open for submissions through Nov. 30. There are various categories for adults and youth.

The contest, part of the Air Force's arts and crafts program managed by AFSVC, is open to all authorized patrons of Air Force morale, welfare and recreation programs.

"Creating art is a way for people to reduce stress and build resiliency," said Darlene Johnson, AFSVC community and leisure branch chief. "Our main inspiration for the contest is to build an avenue for our Airmen and families to express their artwork."

The contest features five categories:

- Adult (18 and up) Novice (Individuals who are new or inexperienced working in traditional art media) and Accomplished (Individuals who have higher levels of art skills obtained through experience, training or as a professional
- Youth Children ages 6-8, Pre-teens ages 9-12 and Teens ages 13-17.

Accepted media are: oil, watercolor, acrylic, pastel, mixed media, digital, gouache, egg tempera, and pen and ink. Drawing media such as graphite, charcoal, colored pencils, scratchboard, markers and metal point are also accepted.

Once the contest closes out, art experts will evaluate each entry based on impact, creativity and technical characteristics. The top three artists in each category will be awarded prizes.

To learn more about this year's art contest, visit https:// www.Mvairforcelife.com.

SecAF, CSAF visit Bagram Airfield

2nd Lt. Brigitte N. Brantley

455TH AIR EXPEDITIONARY WING PUBLIC AFFAIRS

BAGRAM AIRFIELD, Afghanistan — As part of their first trip together to the U.S. Air Forces Central Command area of responsibility, Secretary of the Air Force Barbara Barrett and Air Force Chief of Staff Gen. David L. Goldfein stopped by Bagram Airfield. Afghanistan, to meet with and thank Airmen assigned to the 455th Air Expeditionary Wing.

As part of their immersion into the base's mission, they learned about the several ways the wing's troops support both Operation Freedom's Sentinel and NATO's Operation Resolute Support. Airmen's contributions range from launching F-16 Fighting Falcon and C-130 Super Hercules aircraft, to conducting medical evacuation and other life-saving mis-

Goldfein, who has visited Bagram Airfield for four consecutive years in his role as also helping build an Afghan Secretary of the Air Force was CSAF, said the contributions air force so they can police an honor. of airpower to missions across their own borders, which is the region are undeniable.

"The air component is absolutely critical to our success and out of Afghanistan for making a difference," Barrett

asymmetric advantage that women and businesswomen of our forces need to be able to Afghanistan, said visiting for prevail," Goldfein said. "We're the first time in her new role as

Secretary of the Air Force Barbara Barrett and Air Force Chief of Staff Gen. David L. Goldfein speak Nov. 19

to Airmen assigned to the 455th Air Expeditionary Wing, Bagram Airfield, Afghanistan.

"I'm here because it is such an important location, and it Barrett, who has been in is a place where America is

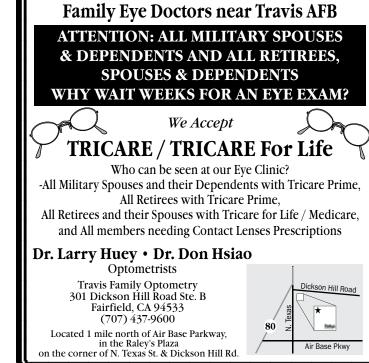
here because we bring the decades working with the said. "Aviation is how we project power in this area, and the Airmen here at Bagram are a huge part of the reason why those efforts are successful."

Both Barrett and Goldfein agreed that another major reason why those efforts are

See VISIT Page 18



what we're after in the end."



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CBD oil

From Page 12

treats. CBD alone is non-psychotropic, which means it doesn't produce the high associated with other marijuana components like THC.

While there have been a number of claims of its wide range of health benefits, CBD products are still unregulated by the Food and Drug Administration and may also contain varying levels of THC that may not be advertised on the label.

"The important point for Airmen to consider is the level of uncertainty for these products," Gammons said. "We want to ensure we arm them with the facts so they can make informed decisions and not inadvertently jeopardize their military careers."

According to a 2017 study and state laws.

conducted by Marcel Bonn-Miller, Ph.D., a study of 84 CBD products sold online, found that only 31% of product labels accurately reflected the CBD content and 21% contained THC, even when product labels advertised zero

Although the levels may not be significantly high, it can still be enough to result in a positive urinalysis result on a drug test. Positive urinalysis results can place service members under disciplinary action. Certain federal employees are also subject to random drug testing based on the requirements of their positions and could be subject to discipline.

Products containing THC, even pet products, may qualify as possession of a controlled substance. Possession of a controlled substance is regulated under the Uniform Code of Military Justice, federal law



Secretary of the Air Force Barbara Barrett speaks Nov. 19 to Airmen assigned to the 455th Air Expeditionary Wing, Bagram Airfield, Afghanistan, Barrett and Air Force Chief of Staff Gen, David L, Goldfein visited Bagram to engage with key leaders and address Airmen about the current state and future of the Air Force.

Visit

From Page 17

successful is America's ability to work with partners throughout the region.

our partners have as much to

them; so coalition operations are, quite frankly, the Ameritroops from across the wing, can way of fighting." Goldfein said. "What we bring to the table as a nation is that we never from gender equality and techfight alone. History shows that those with allies and partners "Very often, our allies and win, and those without tend to lose, so history is on our side

During an all-call with the duo took time to address topics raised by the audience, nological advancements, to enlisted education and the development of the space force.

When asked by Barrett if this was their first deployment, about half the audience raised their hands. Second deployment? Many hands rose. Third deployment? A few more. The most-deployed audience member had been sent overseas 11 times, prompting Barrett to say that hearing that number made her really thankful for everything service members give up to be here.

Barrett and Goldfein's final words at Bagram were a simple message directed toward the families back home: thank you.

"Approaching the holiday period here, it's especially hard for the families back home to have their loved ones here doing the nation's business, so just a shout out to the families back home to say thanks," Goldfein said. "They have a very special kind of courage when they endure the hardships and separations that have become so much a part of military service in a nation at war."



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Tool crib

From Page 12

allows your Airmen to fail? That's how we get there, creative thinking."

Air Force higher leadership has implemented programs such as the Air Force Spark Tank to encourage Airmen to keep thinking critically and creatively to tackle any problems they may have.

Muraira encouraged Airmen with innovative ideas to never be discouraged by failure and to keep persevering.

"Don't think just because you're younger or newer in the Air Force that you're voice shouldn't be heard," Muraira said. "Just because vou're an Airman doesn't mean you can't have a great idea. The Air Force is always looking for great ideas. If you have something route it up, tell your supervisor and see what they have to say. There are always funds for innovation and making an Airman's life easier or helping get the mission done quicker and safer. Any innovative idea is your investment in the Air Force and the system as a whole."



Staff Sgt. Slade Muraira, 437th Aircraft Maintenance Squadron Support shift leader, inspects an auto-crib machine that was purchased for the squadron Nov. 8 at Joint Base Charleston, South Carolina.

Cyber

members had put in place after the earlier attack.

Similar attacks occurred in Louisiana in July. Those attacks affected five parishes the Louisiana equivalent to a county - and 54 schools.

"It was two weeks prior to school (starting for the year)," said Kenneth Donnelly, Louisiana Cyber Security Commission executive director. "Mainly it affected the parish school board systems for (grades) K through 12."

Louisiana National Guard cvber teams were called in.

"The governor declared a state of emergency, which allowed us to expand our (response) capability," Donnelly said. "We were able to use those (Guard) assets and were able to build the capability and capacity in Louisiana to get on the ground quickly and recover the parishes' school systems before school started."

The response also mitigated attacks in other parts of

"We were able to prevent seven other parishes from being severely impacted by the ransomware attack," Donnellv said.

That was, in part, because of assistance from the Louisiana Guard.

"This is the new norm," he said. "We currently have ongoing two additional cyberattacks that took place recently and we have the same resources on the ground right now."

Because of that "new norm," cyberattacks are often treated no differently than a hurricane or other largescale disaster and the Guard is brought in to assist, Lengyel said.

that could be."

"When they first developed cyber, people thought there really is no domestic mission for a governor to use a cyber force in a state capacity," he said. "Now, we're seeing how wrong

But unlike a natural disaster. Guard cyber teams can on hand leading up to and durbe brought in ahead of time to ing the election to monitor the mitigate possible attacks and were key to doing just that dur- who may be trying to hack in, ing the recent elections.

duty in 27 states either monitoring the state.gov networks or on standby in case somehappened," Lengvel thing

Plans are already underway for similar support during the 2020 elections.

As part of that, Guard teams would begin by assessing the network for any vulnerabilities, said Army Maj. Gen. Bret D. Daugherty, Washington National Guard adjutant general, which has a large cyber element.

After that, Daugherty said, any vulnerabilities would be addressed.

"This is all side by side with Department of State IT people a domestic event," he said. who do the keyboard entry,"

Finally, if needed, a team would then monitor the network. can transfer into use."

"We (would) have that team network for any bad actors doing whatever we can to keep "In 2018 the Guard was on that from happening," Daugherty said

If any hacking activity were to occur, it would then be turned over to law enforcement officials, Lengyel said.

"Once we find a crime scene in the cyber domain, we turn it over to law enforcement or call in the FBI," he said.

The Guard's ability to operate in the cyber domain is just another skill set Guard members bring to the fight, whether overseas or at home, Lengy-

"It's the role of the men and women of the National Guard to be able to offer these kinds of services to our governors to respond to "Whether it's a hurricane, a fire or a cyber event, it's just another military skill set we thrust."

F-35

From Page 7

onto the runway and rose into the air, experiencing the power of the F-35 for the first time.

was a great experience," said a Royal Norwegian Air Force fighter student pilot assigned to the 62nd FS. "When you do the first takeoff after only flying aircraft in previous flights with smaller engines, you can really feel the kick of the aircraft accelerating on the runway. It was really fun to achieve the goal of flying a fighter jet for the first time."

The student pilots train on smaller aircraft prior to starting the F-35 B-course to learn the basics of military flight operations.

While attending Undergraduate Pilot Training, student pilots fly the T-6 Texan II - a two-seat, single propeller trainer. Next, they'll fly the T-38 Talon, which is a twoseat twin-engine iet trainer. said Capt. Sake, 62nd FS Norwegian flight commander and instructor pilot.

Flying-instrument information on the T-6 and T-38 lay the foundation for success, preparing the student pilots to tackle the F-35's components. The F-35 B-course provides an in-depth orientation to the fifth-generation fighter.

The first phase of the F-35 B-course is a month of classroom basics to identify how each system in the F-35 works. The second phase is ground-simulator training, performing hours of local and emergency procedures, along with other simulations. The last phase includes hands-on training, and the students are paired into operational squadrons where instructor pilots teach academics and the students fly the F-35 for the first time, said Sake.

"In some ways, the T-38 is actually a little bit more challenging to maneuver just because the flight controls are very mechanical, whereas the F-35s are more electrical," said a Royal Norwegian Air Force student pilot. "The F-35 handles a little bit easier even though it has more power and

Symposium

From Page 6

important topics that our women who serve, both military and civilian, need to hear about," Glover said. "They need a forum to voice their concerns without fear of reprisal. Our goal was to bring men and women together to review the concerns and learn how to work better together to create a more cohesive, ready force."

Lt. Gen. Jacqueline Van Ovost, Headquarters Air Force director of staff, discussed several Air Force initiatives focused on talent management and development during a keynote address on day one of the event. She also spoke of challenges many women face as they move in greater numbers into leadership positions across the force and the need for all to be "courageous and confident" in who they are as they inspire future generations to serve as military and civilian Airmen.

"We all face similar strugneed to reach out and support each other," she said. "We should be open about the experiences that we have had

encourage each other to reach our goals."

Deborah Lee James, former secretary of the Air Force, talked about the importance of taking ownership of one's own life and career while embracing challenges and setbacks as opportunities for growth. She also spoke about the importance of people, networks and mentors for helping guide a person on their journey.

"Get a mentor, be a mentor and build and value that network," James said. "Put people first. If you don't get the people part right, everything else crumbles down around you."

The importance of continuous learning was also stressed by James during her presenta-

"Learn, evolve and reinvent," she said. "Don't rest on and there are women already your competency laurels for too in them who can help guide the long. You need to keep on learn-

In addition to the featured speakers throughout the symposium, participants had opportunities to interact with one another, senior AFMC and Air gles and challenges, and we Force leaders. Participants also collaborated in breakout sessions with topics ranging from work and life balance to emotional intelligence, team deand build on our networks. We velopment, the art of self-pro- to listen, learn and shape a betmust embrace who we are and motion and more. Panels on ter tomorrow.'

diversity and inclusion, effective collaboration and spouse teams drove discussions on common work and life issues and ways to break down barriers in communication to create workplace environments based

For AFMC intern Lindsay McNeely, one of the youngest attendees at the event, the symposium provided an eve-opening perspective on issues that might affect her as she grows in her civilian career.

on trust

"It's cool to work in an organization that champions and supports women." McNeely said. "It's interesting to see how the world has changed, making it possible for so many women to be in leadership positions. It's good to know that these opportunities are in front of me.

For Glover, the success of the event hinged strongly on the great participation and interaction of AFMC leaders and attendees on issues of relevance for the Air Force.

"All of the diverse ideas shared can help shape a better future not only for women, but for everyone," she said. "This forum was a great opportunity

Alternatives

From Page 5

expanding our inventory of meat alternatives to match what our patrons want."

The commissary's plantbased meat offers patrons an soy or gluten, 20 grams of plant increased ability to meet their health, fitness and lifestyle goals while also tasting similar to their animal protein counterparts, according to Health and Wellness Program Manager Deborah Harris, MPH, RD. CDE (Masters of Public Health, registered dietitian and certified diabetes educator).

"With an increased focus perishable team member. on the benefit of protein in the diet, plant sources of protein help meet protein needs as well as offer a different nutritional profile than animal sources," Harris said. "For example, plant-based protein sources also provide fiber, which most Americans lack in their diets.

"Per the Dietary Guidelines for Americans, a healthy eating pattern is one where nutrient needs are met with a variety of foods from a variety of sources," she added. "It's exciting to see that the commissary is working diligently to increase offerings to meet the multitude of lifestyle and dietary to offer this stock assortment to preferences of our military

community while saving our patrons money in the process."

The following dietary and lifestyle attributes of the four Beyond Meat plant-based meat options sold in commissaries include: Certified Kosher, vegan, non-GMO project verified, no protein per serving, 25 percent less saturated fat than ground beef and cholesterol-free.

Once DeCA's sales team added the new plant-based meat to its stock assortment, the agency spread the news about the products' availability to all its commissaries, said Andrea Coyle, store operations

In March, commissaries began offering three of the items - The Beyond Burger, Brat Sausage, and Hot Italian Sausage. Patron demand grew slowly and by June, plantbased ground beef was added to the stock assortment. On the strength of a July sales promotion, product demand skyrocketed, so much so that demand temporarily outpaced supply, Coyle said.

"Every month we are seeing double-digit increases in sales; the plant-based products are in very high demand and our stores are excited to be able their shoppers," Coyle said.

The Titan missile is seen in an undated photo. The first intercontinental ballistic missile. the SM-65D Atlas, went on alert at Vandenberg Air Force Base, California, 60 years ago last

U.S. Air Force photo



Hallsell

From Page 2

its 13 Atlas missile squadrons to bases across the U.S., finding homes as far west as Fairchild AFB, Washington, to Plattsburgh AFB, New York.

Once home, some missiles sat exposed on the launch pad until launch, others slumbered horizontally until needed, with the E-series based in hardened

But almost as soon as the U.S. Air Force fielded the Atlas, it was decided it was of limited use. The ICBM's largest shortcoming was the liquid fuel system.

Not only was the liquid fuel volatile – explosions destroyed four Atlas silos during fueling operations – but the complicated, propellant-loading system required engineers to design a larger missile.

The Atlas required a large

launch site with supporting buildings, operation crews and maintenance crews.

It was simply too expensive and the U.S. Air Force replaced the Atlas with the Minuteman I in 1958, ending the Atlas program in 1965.

As a solid-fuel missile, engineers could develop a smaller 53.8-foot, lighter 65.000-pound weapon that needed fewer materials to construct its launch control centers and launch facilities.

The U.S. Air Force would use less land, less maintenance and a smaller operations crew to man it, making it a much cheaper alternative to the At-

The U.S. Army Corps of Engineers began excavating and constructing the first flight of Minuteman I LCCs and LFs at Malmstrom AFB, Montana, in March 1961.

The 341st Strategic Missile Wing placed the first-ever MM

I on alert at LF A-06 near Monarch, Montana, during the Cuban Missile Crisis. It has since been the United States' "Silent Sentinel."

Despite its short lifespan. the Atlas was vital to the development of the Minuteman I.

The Atlas's technical flaws encouraged engineers to switch to a solid fuel system that allowed them to shrink the Minuteman's overall size and physical requirements.

Reflecting on the weapon system's role in national security and international affairs, the ICBM was an integral pillar to the U.S.' nuclear deterrent mission.

With the next generation ICBM in research and development, the Ground Based Strategic Deterrent, the U.S. Air Force hopes it can pick up where the Atlas and Minuteman left off and serve as the next nuclear deterrent for another generation.

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Schedule

From Page 4

number of these booklets were distributed only to stateside stores, including Alaska and Hawaii. These booklets can be redeemed at any commissary worldwide during November and December.

• Through Dec. 31, commissaries worldwide are offering limited weekly quantities of select frozen turkeys at 48 cents per pound. Plan ahead for your holiday meals and take advantage of these special season-

Available quantities of frozen nut packs shredded cheese, butturkeys are expected to increase ter and cream cheeses, broths, closer to Thanksgiving. Check your commissary for brand

· Go to the commissary website for featured "dietitian-approved" recipes. Save up to 20 percent on select ingredients for the following meals: Pumpkin waffle and chicken dinner as well as Thanksgiving meatloaf dinner.

 Shop commissary store brands. Many of DeCA's topselling commissary store brand items are perfect money-saving components for your holiday meals: Freedom's Choice al savings while supplies last. water, GoPack fruit, cheese and prize: \$2,500.

chicken, shrimp, frozen vegetables, shelf stable vegetables and frozen fruit.

• Patrons who use their Military Star card at any military exchange or commissary through Dec. 31 will be automatically entered to win the "Your Holiday Bill is on Us" sweepstakes. Five grand prize winners will receive an account credit for the entire balance on their Military Star cards; 10 shoppers will win a \$1,000 account credit and 25 shoppers will win a \$500 account credit. Minimum value of each grand

Hellhound

From Page 3

"There are always ways they can be better, but they're functional and effective."

Despite the working lights, Miller doesn't see this as the end to this project.

"I would love for someone to take our current design, look at it through a fresh set of eves and make it even better," said Miller. "Our goal was to make this useable and efficient, but still keep it adaptable for the future." The future of these lights

look bright as Air Mobility

Command has decided to fund the project in mass quantities.

"Tim Miller and Jared Perry are two of many in our Squadron who have carried the torch on innovation," said Lt. Col. Christina Lee, 821st CRS commander. "They resemble what every commander wants to inspire in their units ... Airmen who are unabashed about finding problems and being empowered to solve them with the resources at hand. They have earned great praise, not just for producing a more effective airfield light, but by leading the way for others to follow."





www.4sssonline.com



From Page 2

participating.

Rubio

While touring Pointe du Hoc with my wife, who met me in France, we saw a WWII veteran also touring the site. He was alone, sitting quietly and appeared to be introspective. We didn't stop to bother him, but I was lucky enough to be nearby when a French man, probably in his 40s, approached him and in broken English, with tears in his eyes, thanked him from the bottom of his heart.

This experience epitomized true appreciation of our veterans, because this man was clearly not alive during WWII or personally liberated by this American service member. But the sacrifices were so appreciated by this man's family that the deep emotions on display were passed down through genera-

It is that moment that I reflect on when I am facing my own challenges, and I hope that you are able to do the same.

Remember veterans, that vour nation is grateful and forever indebted to you for your service and sacrifice. That is why it is an honor for me to represent this nation now and thank each and every one of you for stepping forward and taking on the challenges of military ser-

You are my heroes.

Paves

From Page 5

environment.

"Our role becomes extremely vital in a radiological situation." Cozza said. "Radiation isn't something that you can smell or feel – it interacts with you on a cellular level."

Phase II-B of ROCKI 20-01 put the team's radiological capabilities to the test, being the first time it has been implemented into an exercise at Little Rock AFB.

"To detect radiation, you need to have very specialized equipment," Cozza said. "We have that equipment and have the capability of using it, understanding what it is reading, interpreting the results, and ultimately finding out the biological effects that will occur."



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1) Staff Sgt. Alvin Perez, left, 60th **Aerospace Medicine Squadron** medical technician, administers an influenza vaccination to Tech. Sgt. **Emanuel Espino-Mata, right, 60th Operations Support Squadron** noncommissioned officer in charge of Survival, Evasion, Resistance and Escape operations, during a base exercise Nov. 5 at Travis Air Force Base, California. The exercise tested Team Travis' ability to respond to a public health emergency in the event of an actual health crisis. 2) U.S. Air Force medical personnel assigned to David Grant USAF Medical Center administer emergency first aid to a simulated victim during a base exercise Nov. 5 at Travis. 3) Staff Sgt. Joshua Yap, right. **60th Security Forces Squadron** noncommissioned officer in charge of supply, processes Airman 1st Class Stanley **Dinkins, left, 60th Force Support Squadron force management** technician, into quarantine at an isolation facility during a base exercise Nov. 6 at Travis. 4) Staff Sgt. Harris Belmonte, **60th Aeromedical Squadron** medical technician, applies a bandage to the shoulder of Senior Airman Nathaniel McCoy, 60th Aircraft Maintenance Squadron aircraft structural maintenance journeyman, after receiving an influenza vaccination during a base exercise Nov. 5 at Travis.

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U.S. Air Force photos by Heide Couch







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