



2017 YEAR IN REVIEW EDITION



# NO BOUNDS









Travis helps transport school buses to Haiti

Airmen from the 60th Aerial Port Squadron loaded seven full-size school buses Nov. 20, 2017, onto waiting C-5M Super Galaxies, putting into motion a dream that started more than two years ago on the bumpy dirt roads of Haiti.

Claude Joseph, a Haitian native who now works as a labor organizer in Oakland, California, spurred the transport with his Those Angels foundation.

The buses were transported as part of the Denton program, a Department of Defense-sanctioned humanitarian assistance transportation program that allows U.S.-based non-governmental sources to transport humanitarian aid at little or no cost to the donor.

AFOSI names facility after deceased agent

The Air Force Office of Special Investigations held a building dedication event Nov. 1, 2017, exactly 10 years after the death of David Wieger to name the building in his honor.

Wieger was a technical services agent at Air Force Office of Special Investigations Detachment 303, Travis Air Force Base, California, from September of 2004 until his death on Nov. 1, 2007. Wieger was killed in Baghdad when his vehicle was struck by an improvised explosive device.

Airmen from base visit Twitter headquarters

Members of both the U.S. Air Force and Twitter met at Twitter Headquarters Nov. 9, 2017, in San Francisco, California to exchange professional development ideas and management strategies to improve and modernize both organizations.

Hosting two respective one and a half hour seminars, both the Air Force and Twitter taught each other strategies employed by their separate organizations in an effort to foster cooperation as well as maximize each other's workplace competencies.



A C-5M Super Galaxy aircraft from the 22nd Airlift Squadron at Travis Air Force Base, Calif., is loaded with U.S. Navy rescue equipment Nov. 18, 2017, at Marine Corps Air Station Miramar, Calif.

Travis helps in search for sub

SCOTT AIR FORCE BASE, Ill. — Two C-17 Globemaster IIIs and a C-5M Super Galaxy flew Nov. 18, 2017, to Argentina to deliver the U.S. Navy's undersea rescue capabilities to aid in the search for the A.R.A. San Juan, an Argentine navy submarine, which went missing Nov. 15 in the southern Atlantic.

Air Mobility Command deployed six C-17 Globemaster IIIs and three C-5M Super Galaxies, said Oliver Winter, 618th Air Operations Center Operational Analysis Division project manager. Those aircraft flew 17 sorties, unloaded 76 Sailors assigned to the Undersea Rescue Command, and 764,000 pounds of equipment.

One of the C-5s, assigned to the 60th Air Mobility Wing at Travis AFB, California, flew to Marine Corps Air Station Miramar, California. From there, they transported the first rescue system, the Submarine Rescue Chamber and underwater intervention Remotely Operated Vehicle to Comodoro Rivadavia, Argentina, Nov. 19, 2017.

Mobility Airmen launched a C-17, assigned to the 437th Airlift Wing at Joint Base Charleston, South Carolina, carrying a tow bar, a Tunnor 60K Aircraft Cargo Loader and three members of the 437th Aerial Port Squadron Nov. 18. While on the ground in Argentina, the team conducted runway assessments prior to other

equipment arriving in country.

The second rescue system, the Pressurized Rescue Module and supporting equipment, was scheduled to arrive Nov. 20 in Argentina.

"Helping others is in Air Mobility Command's DNA," said Gen. Carlton D. Everhart II, AMC commander. "Our Airmen recognize the critical nature of the mission and as requirements expanded we moved to expedite delivery of increased capability to the U.S. Navy and our Argentine friends."

"The U.S. Air Force takes pride in always being ready and always there to assist those in need," said Gen. Carlton D. Everhart II, Air Mobility Command

commander. "Moments matter and the AMC team is committed to providing support to our Argentinian partners and friends."

In addition to the aircraft listed above the 436th Airlift Wing at Dover AFB, Delaware, the 62nd Airlift Wing at Joint Base Lewis-McChord, Washington, and the 176th Wing at Joint Base Elmendorf-Richardson, Alaska, deployed aircraft to support in the effort as well. Additional missions are planned to continue to provide needed equipment, to include Sonar.

On Nov. 30, 2017, the Argentine navy abandoned its search for the 44-person crew. It continues searching for the submarine.

Travis hosts FEMA as fires ravage North Bay

In October, the Atlas Fire, combined with other Northern California blazes, became the deadliest wildfire in state history.

A fire that started in Napa County and crossed over the hills into Solano County on Oct. 9, claimed 41 lives and burned thousands of acres and destroyed hundreds of buildings. It also ravaged the wine industry in Napa and Sonoma.

In response, Travis was designated an installation support base for the Homeland Security's Federal Emergency Management Agency.

The base housed one bus, 25 tractor trailers with food, more than 100 ambulances and 30 personnel from FEMA.

Several organizations across Travis support edFEMA, including the 60th Aerial Port Squadron, which provided the staging area and space necessary to assist with fire relief efforts.

Airmen deliver support after Hurricane Maria

Travis Air Force Base, California, continued its support for people impacted by hurricanes in the Atlantic Ocean in October.

Three Interagency Hotshots crews had more than 26,000 pounds of supplies and equipment palletized by Airmen from the 60th APS prior to their flight to Puerto Rico. The Hotshots planned to help open blocked roadways after Hurricane Maria knocked down several trees, making transportation on the island difficult.

Additionally, Soldiers with the 127th Aviation Support Battalion loaded two CH-47 Chinook helicopters from 2-501 General Support Aviation Battalion, Desert Knights, onto a C-5M Galaxy aircraft at Fort Bliss, Texas.

Travis DDRP wins drug awareness award

The 60th Air Mobility Wing Drug Demand Reduction Program received the 27th annual Department of Defense Community Drug Awareness Award Oct.



Daily Republic photo/Aaron Rosenblatt

**Smoke rises Oct. 10, 2017, above Suisun Valley in Fairfield, Calif, approximately 10 miles from the main gate at Travis Air Force Base, Calif.**

11, 2017, for best drug demand reduction program in the Air Force for fiscal year 2016.

The award is presented annually at the Pentagon to the best drug demand reduction program for previous fiscal year accomplishments for each branch of service, the National Guard, the Defense Agencies and Field Activities.

Travis helps move fighters to Afghanistan

Two Travis Air Force Base, California, KC-10 Extenders from the 9th Air Refueling Squadron and 79th ARS participated Oct. 19-30 in an En-route Support Trailing Aircraft mission that followed the Coronet

East mission.

The Coronet, which is a movement of fighter aircraft from one theater to another with the escort of tanker aircraft, helped move F-16 Fighting Falcons from Shaw Air Force Base, S.C., to Bagram Airfield, Afghanistan.

Adding the ESTA mission required the KC-10s to carry the support equipment and personnel for the deployment of the fighter aircraft as opposed to only escorting aircraft in a standard Coronet mission.

Travis delivered 61,000 pounds of cargo and nine passengers to Bagram.

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Travis responds to  
trio of hurricanes

Airmen and personnel from Travis Air Force Base, California, responded to multiple hurricanes that moved through the Atlantic Ocean in September. Hurricanes Harvey, Irma and Maria battered American lands in the Atlantic Ocean, Atlantic seaboard and Gulf Coast.

Travis Airmen responded to all three.

For Harvey, one C-17 Globemaster III diverted on its way to Africa to provide presidential support airlift Aug. 31 to Texas. Six Critical Care Air Transport team members traveled to Little Rock AFB, Arkansas, where they staged with additional aeromedical evacuation teams.

In response to Irma, a small team from the 821st Contingency Response Group conducted a site survey of the airfield on St. Croix, St. Thomas, and St. Maarten, U.S. Virgin Islands.

Twenty medical Airmen sent medical equipment, such as the Enroute Patient Staging System, and critical care air transport teams, where they



U.S. Air Force photo/Senior Airman Amber Carter

**Members of the 60th Aerial Port Squadron at Travis Air Force Base, Calif., load a C-17 Globemaster III Sept. 7, 2017, with two all terrain vehicles, two humvees, an all-terrain forklift, four pallets of supplies and a crew, including servicemembers from the 60th Medical Group and the 621st Contingency Response Wing.**

assisted in evacuating 32 patients and four evacuees.

A C-17 departed Sept. 9, 2017, en route to Puerto Rico to deliver a team of search and rescue personnel assigned to FEMA's Texas Task Force 1.

Two C-17 cargo aircraft transported 64 contingency response personnel to Marathon, Florida to provide critical humanitarian aid to the Florida Keys.

Close to 50 personnel from the 621st Contingency Response Wing at Joint Base McGuire-Dix-Lakehurst flew to Florida to support airfield operations at MacDill AFB, Florida.

A C-5 was quickly tasked to fly from Scott AFB, Illinois, to Nellis AFB, Nevada, where it transported more than 60 USAF active-duty search and rescue personnel and

helicopters to Homestead Air Reserve Base, Florida, Sept. 10 and 11.

The Aerial Port Squadron certified a mobile Air Traffic Control center for airlift that was then transported to St. Thomas.

In the aftermath of Maria, a C-17 delivered 105,000 pounds of water and Meals-Ready-to-Eat to St. Croix, U.S. Virgin Islands.

One C-5M Super Galaxy departed Sept. 23, 2017, for March ARB, where it was loaded with 101,500 pounds of gear, six canines and 81 members from Federal Emergency Management Agency Task Force 2, Task Force 6 and Task Force 7 from California Urban Search and Rescue. The cargo was delivered to San Juan, Puerto Rico.

A Contingency Response Element assigned to the 821st CRG deployed via C-5 Sept. 24, 2017, to Roosevelt Roads Naval Station, Puerto Rico in support of hurricane relief efforts.

Airmen respond to  
quakes in Mexico City

A C-17 Globemaster III from


Travis Air Force Base, California, arrived to Mexico City International Airport in support of earthquake relief efforts Sept. 21, 2017.

The crew delivered 67 U.S. Agency for International Development elite disaster team members and five canines along with equipment and medical supplies.

"The men and women of the USAR needed to get to Mexico to support the search and rescue operations after the earthquake," said Capt. Kyle Brackett, 21st Airlift Squadron.

All 67 USAID disaster team members are also part of the Los Angeles County Fire Department Urban Search and Rescue Team and put past training and real-world experiences to use for this mission.

At the request of the Mexican government, the team arrived in Mexico's capital to support search and rescue efforts after a 7.1-magnitude earthquake struck the country Sept. 19. The second earthquake in two weeks to strike Mexico collapsed buildings and damaged highways while killing hundreds of people.



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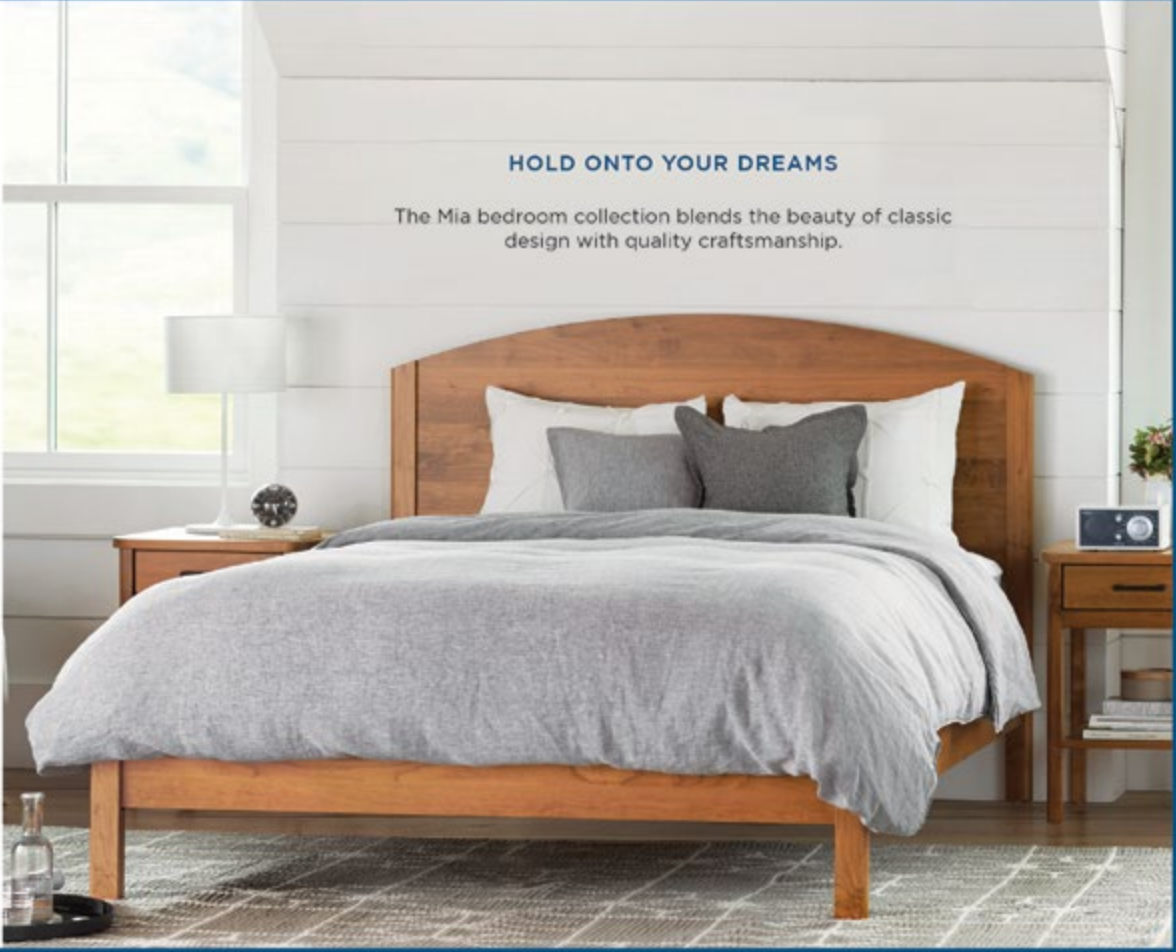
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Travis brings support  
after Hurricane Harvey

Two David Grant Medical Center critical care air transport teams left Aug. 30, 2017, from Travis Air Force Base, California, to help the victims of Hurricane Harvey. The two teams headed to Little Rock Air Force Base, Arkansas, to meet up with other military humanitarian support elements and stage into the area of eastern Texas that has been hammered with massive flooding. Approximately 60 personnel from the 60th Medical Group were on standby and ready to respond should the situation in Texas need further Travis support. Additionally, a C-17 Globemaster III and its associated crew were put on a 12-hour alert status, according to Travis Air Force Base's Public Affairs Office.

The three-person David Grant USAF Medical Center teams, working with the Texas Air National Guard, would become part of the network that would be moving people requiring medical care out of the flooding area.

Mobility Guardian brings  
together global forces

Teams from the 60th Air Mobility Wing and 621st Contingency Response Wing at Travis Air Force Base, California, combined their efforts July 31 to Aug. 3 to support the deployment of more than 130 contingency response Airmen in support of Exercise Mobility Guardian. Based at Joint Base Lewis-McChord, Washington, Mobility Guardian 2017 is both the inaugural iteration of the exercise and the largest-scale readiness exercise Air Mobility Command has undertaken, according to AMC officials. More than 3,000 joint and coalition personnel are participating in the simulated deployment, which aims to “train like we fight” and enhance the U.S. military’s global response force by integrating complex, realistic mobility training with partner nations. Though Mobility Guardian officially began July 31, planning and preparation between the two wings at Travis began much earlier - a year and a half ago, when ideas first started



Travis personnel and aircraft are on standby in August 2017 to assist with emergency efforts in Texas for the effects of Hurricane Harvey.

Base adjusts C-5M  
Super Galaxies at Dover

After two C-5M Super Galaxies had a malfunction of the nose landing gear, Gen. Carlton Everhart II, Air Mobility Command commander directed a stand-down of C-5M flying operations in July at Dover Air Force Base, Delaware. After inspection, work immediately began on the 18 C-5Ms stationed at Travis Air Force Base, California, to ensure safety and minimize impact on worldwide operations. There are two ball screw drive assemblies on the C-5M nose landing gear. Both ball screw drive operate in tandem to retract and extend the nose landing gear, according to officials.

If a single ball screw drive assembly is not operational and causes binding, the gear cannot operate and will stall the extension or retraction process. The process to replace the ball screw drive assemblies takes approximately 24 hours to complete.

DGMC wraps Phase III  
of modernization

The 60th Medical Group marked the end of the Phase III Modernization Project at David Grant USAF Medical Center Aug. 4, 2017. For the past nine years, DGMC has undergone three different phases of improvements and modifications spanning 3,000 square feet and totaling more than \$140 million. Phase I of DGMC's structural improvements and

modernization program started in 2008 marking the first-large-scale facelift to the Air Force's flagship medical center since it opened in 1988. Phase I was completed in June 2011. Phase II started in December 2012, which included multi-departmental enhancements in diagnostic imaging, optometry, allergy and immunization clinic, ear, nose and throat clinic and musculoskeletal clinic. Phase II was finished in 2014. The \$54 million Phase III renovations began in the spring of 2014 with labor and delivery, operating room administrative and support services, mental health clinic and education departments being the first areas to see extensive healthcare design improvements. A state-of-the-art surgery center added two operating rooms, increasing the hospital's surgical capabilities by 25. Additionally, the oral surgery clinic, women's health clinic, heart lung vascular clinic, minor procedure surgical clinics and intensive care unit have all been updated as apart of these modernization efforts. The project also received Leadership in Energy and Environmental Design silver certification in energy conservation such as water and energy usage and air quality.



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Travis C-5 aids bomber deployment in Guam

A C-5M Super Galaxy assigned to Travis Air Force Base, California, enabled the deployment of six B-1B Lancers and 350 Airmen with the 37th Expeditionary Bomb Squadron, 28th Bomb Wing from Ellsworth Air Force Base, South Dakota, to Andersen AFB, Guam, at the end of July in support of U.S. Pacific Command's Continuous Bomber Presence mission.

The 37th Expeditionary Bomb Squadron is assuming responsibility for CBP operations from the 9th EBS, assigned to Dyess AFB, Texas, which arrived in Guam in February.

For the duration of this current deployment, the 37th EBS will operate a fully upgraded fleet of Block 16 B-1s. The Block 16 update includes a series of improvements to the B-1s avionics, data-link equipment and other systems, all of which improve aircrew situational awareness, interoperability

with other aircraft, and overall mission efficiency.

These upgrades are of particular value in a region as vast and diverse as the Indo-Asia-Pacific, as demonstrated by the departing 9th EBS, who executed the first-ever all-Block 16 B-1 deployment during their deployment to Andersen.

KC-10s show their reach in Australia exercise

KC-10 Extender aircrews from the 6th and 9th Air Refueling Squadrons at Travis Air Force Base, California, played a pivotal role July 13, 2017, in successfully executing Exercise Ultimate Reach, a strategic refueling and air drop mission in support of Exercise Talisman Saber 2017.

Talisman Saber is a biennial exercise in Australia that focuses on bilateral military training between U.S. Pacific Command forces and Australian Defence Force to improve combat readiness and interoperability between coalition



U.S. Air Force photo/Tech. Sgt. Richard P. Ebersberger

**A C-5M Super Galaxy assigned to the 22nd Airlift Squadron at Travis Air Force Base, Calif., arrives July 24, 2017, at Andersen AFB, Guam. The C-5 transported equipment and personnel assigned to 37th Expeditionary Bomb Squadron, deployed from Ellsworth AFB, S.D.**

partners, maximize combined training opportunities and conduct maritime prepositioning and logistics operations in the Pacific.

The air drop is one of several operations intended to highlight the interoperability of U.S. and Australian forces as well as the ability to project power in the region. In order to complete it, a joint partnership of aircraft from four different locations and three different time zones met at exactly the right place and time mid-air to conduct air refueling.

Community helps Travis fight wildfire

A wildland fire came within 50 feet of the Travis Equestrian Center after a blaze started July 6, 2016, in Suisun City, California and charged toward Travis Air Force Base.

As the flames traveled, they also spread close to a munitions bunker and the 621st Contingency Response Wing warehouse

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was directly responsible for the daily operations of the largest air mobility wing in the Air Force. With \$10 billion in assets, the group is tasked with operating 18 C-5M Super Galaxy, 13 C-17 Globemaster III and 27 KC-10 Extender aircraft on worldwide airland and air refueling missions.

In addition, Maddox directed all mission support activities; including an operations support squadron providing air traffic control, weather forecasts, intelligence, flight management support, aircrew flight equipment and KC-10 initial qualification and upgrade training.

60th Operations Group welcomes new leader

Airmen from the 60th Operations Group welcomed their new commander, Col. Theresa Weems, during a change-of-command ceremony July 7, 2017, at Travis Air Force Base, California.

As commander of the 60th OG, Col. Christopher Maddox

Maddox thanked the crowd of Airmen, distinguished visitors, family members and other guests during his farewell remarks.

“The sun never sets on the Airmen of the 60th Operations Group,” said Maddox.

Aircrew moves injured out of Afghanistan

Six aircrew members from Travis Air Force Base, California, flew a C-17 Globemaster III into Bagram Airfield, Afghanistan, June 18, 2017, to medevac five U.S. Army special operators who were wounded in an insider attack at Camp Shaheen, in the northern city of Mazar-i-Sharif.

The Travis C-17 was routed to Bagram after delivering two UH-60M helicopters and about 70,000 pounds of cargo to undisclosed base in Southwest Asia in support of Operation Inherent Resolve.

Upon arriving at Bagram, the wounded warriors underwent trauma care for 12 hours at Craig Joint Theater Hospital.

After receiving care through the night of June 17, 2017, the Soldiers were prepped to fly on the C-17 to Ramstein AB. The Travis aircrew and the CJTH En Route Patient Staging System crew assisted the 455th EAES AE/CCATT team with the loading of each patient and more than 600 pounds of medical equipment into the aircraft. ERPSS personnel are responsible for all patient movement from the hospital to the aircraft and also provide patient loading assistance.

Travis helps with Navy shipment

A U.S. Navy propulsion shaft was transported to the Pacific theater in a C-5M Super Galaxy June 9, 2017, at Travis Air Force Base, Calif.

As the largest aircraft in the U.S. Air Force's inventory, the C-5M Super Galaxy serves as

mobility air forces primary strategic airlift platform for transporting oversized and unconventional cargo.

The equipment was shipped to the Pacific to support repairs to ships forward-deployed there.

Travis C-17 supports training in Guam

The 734th Air Mobility Squadron completed a fall protection training exercise June 12, 2017, at Andersen Air Force Base, Guam.

About 55 feet in the air, Airmen secured by harness, practiced a training situation detailing the hazards and protocols Airmen may face if an individual falls from the tail section of a C-17 Globemaster III while performing different safety inspections and repairs.

60th MXG greets new commander

The 60th Maintenance Group welcomed its new commander, Col. David Hammerschmidt, during a change-of-command ceremony June 23, 2017, at Travis Air Force Base, California.

The ceremony marked the departure of Col. Earl Scott's as the group's commander. Under Scott, the 60th MXG won six command-level awards, Air Mobility Command's Logistics and Readiness Unit of the Year award, AMC's Instructor of the Year award and attained the best reliability numbers for Travis aircraft throughout AMC.

Col. John Klein, 60th Air Mobility Wing commander, presided over the ceremony which included a formation of the 60th MXG's five squadrons.



Courtesy photo

**Members of the 455th Expeditionary Aeromedical Evacuation Squadron provide care for U.S. Army Soldiers who were wounded in a rocket propelled grenade attack in a C-130J Super Hercules during a June 17 flight to Bagram Airfield, Afghanistan.**

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## Base hosts Wings Over Solano air show

Travis Air Force Base, California, hosted thousands from the community May 6-7, 2017, for the Wings Over Solano Air Show. The show included a performance by the Thunderbirds, the U.S. Air Force's acrobatic aerial demonstration team of F-16 Fighting Falcons.

The Thunderbirds flew with former airline pilot Chesley "Sully" Sullenberger III. Sullenberger is a 1973 Air Force Academy graduate and is best known for successfully landing a crippled airliner in the Hudson River, saving the lives of 155 passengers in 2009.

The air show capped a week of events in the community around the base. Among them was members of the U.S. Army Golden Knights parachute team performing skydiving maneuvers during the show and at Fairfield High School in Fairfield, California.

## 22nd AS captures Gen. Joseph Smith trophy

The 22nd Airlift Squadron was awarded Air Mobility Command's 2016 Lt. Gen. Joseph Smith Trophy for being the most outstanding airlift squadron in the overall command.

"It is kind of like winning the Super Bowl," 60th Air Mobility Wing commander Col. John Klein told a gathering of the Travis Regional Armed Forces Committee May 15, 2017, at Travis Air Force Base, California.

The 22nd Airlift Squadron was awarded the honor for the missions it carried out during 2016 which included flying a combined 6,600 hours, airlifting 73 million pounds of cargo and carrying 15,000 passengers.

In one mission, nine 22nd Airlift Squadron C-5 Galaxy jet transports hauled 750,000 pounds of U.S. Army bridge sections and boats from Northern California to Iraq last fall to repair vital damaged bridges near Mosul, Iraq. That mission was a major factor in getting awarded the trophy, according to Travis' Public Affairs Office.

## Travis, Ramstein team up to repair C-5M

Ramstein Air Base, Germany, and Travis Air Force Base, California, maintainers worked together to repair a C-5M Super Galaxy from Travis after its landing gear malfunctioned May 2, 2017, at Ramstein Air Base, Germany.

"We were coming down to



The U.S. Air Force Thunderbirds perform an aerial demonstration May 7, 2017, during the Wings Over Solano Air Show at Travis Air Force Base, Calif.

land, the pilots threw the gear down and the number four main landing gear did not extend, so they had to emergency extend it," said Staff Sgt. Cesar Mardirossian, 60th Aircraft Maintenance Squadron flying crew chief from Travis. "We were able to land safely, and we had to jack the aircraft."

## McConnell jets take shelter at Travis

The threat of severe weather around McConnell Air Force Base, Kansas, forced eight KC-135 Stratotankers to take shelter on Travis Air Force Base, California's flightline during a weekend in May 2017.

A forecast of severe weather, with possible tornadoes involved, prompted the Air Force to enact its natural disaster plan that called for the evacuation of the large aerial refuelers. Hail bigger than 1 inch in diameter and excessive high winds could badly damage the aircraft.

Travis, with its large amount of available ramp space, was where the KC-135s flew May 18. One of the reasons for the available space was that many of the Travis aircraft were out of the area.

Weather reports from central Kansas stated at least seven tornadoes touched down in the region May 19, but there was little reported damage, according to the Wichita Eagle.

The eight air tankers left Travis May 20 to return to McConnell Air Force Base, according to the Travis Air Force Base Public Affairs Office.

## Travis first to receive birthing simulator

David Grant USAF Medical Center at Travis Air Force Base, California, is debuting a state-of-the-art birth simulator that will enhance the obstetric capabilities of its nurses, providers and technicians.

Providers and staff at DGM's Maternal Child Flight, part of the 60th Inpatient Squadron, now use the Complicated OB Emergency Simulator, which replaced the previous simulator, called the Mobile Obstetric Emergency Simulator. The COES is an improved training platform that will enhance the quality of analysis and feedback available from training sessions.

The new equipment sends data automatically, so evaluators get real-time updates on which providers are doing what tasks as well as an immediate after action report, she added.

The DOD performs more than 50,000 deliveries every year in its medical facilities worldwide, with Travis performing 30 to 35 deliveries each month on average.

## Base moves dolphins to San Diego

Airmen from the 301st Airlift Squadron transported four bottlenose dolphins and their handlers April 29, 2017, from Naval Air Station Key West, Florida, to the U.S. Naval Marine Mammal Program in San Diego, Calif.

The dolphins were moved to NAS Key West in March where they spent the last month operating before returning to San Diego.

The MMP trains dolphins and sea lions to assist the U.S. Navy with locating mines and enemy swimmers.

The flight back to San Diego presented numerous challenges for the pilots because they needed to have shallow take offs and landings, maintain an altitude of 30,000 feet, have a pressurization below 6,000 feet and ensure the cargo area was kept at 50 degrees Fahrenheit, all while flying as smoothly as possible for the dolphins' comfort.

"The sensitivity of the cargo



Medical staff conduct training on the new Complicated OB Emergency Simulator at Travis Air Force Base, Calif., April 11, 2017.

posed a unique challenge for us," said Lt. Col. Alex Salogub, 301st AS pilot and aircraft commander for the mission. "We don't normally need to worry about pressurization or temperature issues with most cargo. With the C-17 (Globemaster III) flexibility and capability as a multi-role aircraft, we are (able to) successfully complete these unique challenges."

## Travis, Army train on Blackhawk helicopter

Members of the 21st Airlift Squadron at Travis Air Force Base, California, completed a joint training mission April 7, 2017, with Army counterparts at Yakima Training Center, Washington, to practice the skills each service would be

tasked to do while deployed.

The 21st AS BEEliners flew a C-17 Globemaster III to Yakima to meet up with the U.S. Army Air Ambulance Detachment stationed there. The USAAAD unit is part of the 16th Combat Aviation Brigade.

Helicopter loading is a skill requiring constant practice and fine-tuning, said Army 1st Lt. Michael Jakub, a USAAAD Black Hawk pilot.

The group loaded and unloaded a Black Hawk into the waiting C-17 twice, changing the helicopter's positioning and implementing various safety techniques with each procedure.

## US builds partnerships with South America

BOGOTA, Colombia — The 571st Mobility Support Advisory Squadron, alongside Airmen from five other squadrons, spent three weeks building partner capacity with the Colombian air force in air operation, aeromedical evacuation, propeller balance, zodiac rigging and medical intelligence courses.

The 571st MSAS, located at Travis Air Force Base, California, supports the mission of Air Forces Southern requirements in the U.S. Southern Command area of responsibility with continued engagements throughout Latin America and the Caribbean.

The BPC mission is designed to promote regional stability by fostering key relationships and enhance partner nation capabilities through interaction and training.

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### Final KC-10 returns after modification

The 9th and 6th Air Refueling Squadrons at Travis Air Force Base, California, flew home March 28, 2017, with the 59th and final modified KC-10 Extender, signifying the completion of a six-year project.

Since 2011, KC-10 fleets at Travis and Joint Base McGuire-Dix-Lakehurst, New Jersey, have been undergoing flight management system modifications. The new system, called the Communication, Navigation, Surveillance/Air Traffic Management system, modernizes the aircraft, increases mission effectiveness and improves fuel efficiency.

The previous FMS 800 system used gyroscopes to display functions and status of the aircraft, such as the accelerometer. These gyroscopes would often overheat and require maintenance.

Pac channel mission delivers cargo to Japan

A C-5M Super Galaxy assigned to the 22nd Airlift Squadron conducted a Pacific channel mission March 4-11 delivering cargo to Yokota Air Base, Japan, and Osan AB, South Korea.

The mission delivered more

than 161,000 pounds of cargo and brought passengers to the Pacific theater.

Since the new ‘M’ model upgrades, the C-5M can now fly direct to Yokota AB without the need to stop at either Joint Base Pearl Harbor-Hickam, Hawaii, or Joint Base Elmendorf-Richardson, Alaska. The aircraft can also make the trip without the need to be refueled by a tanker, this saves time, money and aircraft for the Air Force.

The 22nd AS flies Pacific channel missions routinely – approximately three per month..

Travis C-17 part of aeromedical evac

MISAWA AIR BASE, Japan — Airmen and Soldiers, along with U.S. and Japanese civilian personnel from six different locations around the world, teamed up to provide the largest aeromedical evacuation ever at Misawa Air Base, for two critical patients March 22, 2017.

The Air Force AE system is part of the nation's mobility resources and provides time sensitive, mission critical en route care to patients during transit to medical treatment facilities. Care is provided by Air Force medics specially trained to operate within the global AE system.

Two C-17 Globemaster IIIs, one from March Air Force Base



U.S. Air Force photo/2nd Lt. Sarah Johnson

The aircrew who completed the final KC-10 Extender modification flight displays the coin it received to signify the completion of the project April 5, 2017, at Travis Air Force Base, Calif.

and one from Travis AFB, both in California, were requested to transport patients to two separate locations, Tripler Army Medical Center in Honolulu and Brooke Army Medical Center at Fort Sam Houston, Texas.

### DGMC wins Medical Lab of Year Award

The David Grant USAF Medical Center Clinical and

Pathology Laboratory at Travis Air Force Base, California, bested both foreign and domestic laboratories to be named the 2017 Medical Laboratory of the Year in March 2017.

The award recognizes “the unsung heroes who demonstrate their contributions to quality patient care,” according to a press release from the Medical Laboratory Observer, a national peer-reviewed publication that sponsors the annual competition.

The lab is the first military service lab to win the award and it was their first time entering the competition, said Lt. Col. Patrick Kennedy, 60th Medical Diagnostics and Therapeutic Squadron Clinical Laboratory and Pathology Flight commander. The Armed Forces Institute of Pathology claimed the title in 2006, but the organization was de-established in 2011 under

Base Realignment and Closure efforts.

### Travis wins 2016 environmental honor

The environmental restoration program staff at Travis Air Force Base, California, won the 2016 Gen. Thomas D. White Environmental Restoration Award for Installations in March 2017.

The award recognizes installations and individuals for environmental quality, restoration, pollution prevention, recycling and conservation of natural and cultural resources. It is named in honor of the general who served as the fourth Air Force chief of staff from 1957 to 1961. White, who died at age 64 in 1965, helped to establish Air Force environmental programs.



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2017 YEAR IN REVIEW: JULY TO DECEMBER









Travis backs FEMA in flood disaster effort

Due to historical rainfall and flooding across Northern California, Travis Air Force Base, California, supported a Federal Emergency Management Agency Incident Support Base to provide relief to communities affected by a potential Oroville Auxiliary Spillway failure.

With 44 trucks and approximately 30 personnel, the IMAT brought cots, drinking water, blankets, meals, medical equipment and supplies.

The team began arriving Feb. 13, 2017, at Travis.

The state of California was granted three different major federal disaster declarations Feb. 14, 2017. One was an emergency declaration, EM-3381-CA, which provides support for the Oroville Dam spillover, DR-4301-CA, is for public assistance for 34 counties and DR-4302-CA, is for public assistance for the Hoopa Valley Tribe, for damaged infrastructure repairs on their reservation.

Travis competes at AF level for dining award

The Sierra Inn Dining Facility at Travis Air Force Base, California, was Air Mobility Command's Region 2 nominee to compete for the John L. Hennessy Trophy in 2017.

The Hennessy Trophy is presented to the best food service program in the Air Force and each major command nominates a base to compete. Travis will compete for the honor for a seventh time and will represent Region 2 for the second straight year. Region 2 covers a large geographic area beginning west of the Mississippi River and stretching to Asia.

In 2016, the Sierra Inn Dining Facility provided nearly 400,000 meals to three facilities on base supporting three wings including the largest air mobility wing in AMC. The facility also oversees an inventory valued at \$480,000.

The John L. Hennessy Award was established in 1957 and is the oldest military food service award. The award is named after John L. Hennessy, a hotel and restaurant executive who

led a special Hoover Commission Task Group advisory of military food service and commissaries board to improve military food service.

Reservists save life of drowning child

On Feb. 25, 2017, Staff Sgts. Rochelle Waters and Dante Thomas, 349th Security Forces Squadron members, saved a child from drowning at exercise Cope North in Guam.

Seeing a child struggling in the water and crying for help, the pair was able to enter the water, retrieve the child and bring him safely to shore.

Once they got the boy to shore, Waters took his pulse and checked his airway, breathing and circulation.

After waiting with him to lower his pulse and breathe easier, Waters said the sergeants swam back with him to his family.

The family had no clue what had almost happened, Thomas said.

Travis captures 3 AF Medical Service Awards

The Air Force surgeon general announced winners in the 2016 Air Force Medical Service Awards program, which included two individual and one team award winner at Travis Air Force Base, California.

Capt. (Dr.) Bridget Nestor-Arjun, 60th Medical Operations Squadron won the Clinical Excellence Award in the Company Grade Officer category and Maj. (Dr.) Ian Stewart, 60th Medical Group won the Outstanding Achievement in Clinical Research Award. Additionally, the 60th Medical Group was recognized for the Best Inpatient Facility Safety Program.

Other accomplishments during the award period include creating an emergency life airway kit and single-handedly starting an emergency medicine clerkship with the University of California, Davis, California.

The goal of the program is to integrate military medical students and resident physicians in an established program to increase the training they receive so they can better care for military patients worldwide.



Trucks and personnel from the Federal Emergency Management Agency arrive Feb. 16, 2017, at Travis Air Force Base, Calif. Travis was acting as a staging area for FEMA personnel, providing space for necessary equipment and supplies in case of the Oroville auxiliary spillway failure.

U.S. Air Force photo/Louis Briscoe



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# local worship services

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- 10:00 AM WEDNESDAY SENIOR PRAYER
- 7:00 PM WEDNESDAY NIGHT Adult Bible Study
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Sunday School: 10:00 a.m.  
Morning Worship Service: 11:00 a.m.  
Children's Church: 11:30 a.m.  
**Tuesday**  
Prayer Meeting: 6:30-7:00 p.m.  
Bible Study: 7:00-8:00 p.m.  
**Web Site:** [www.stpaulfairfield.com](http://www.stpaulfairfield.com)  
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401 W. Monte Vista Ave., Vacaville  
707-448-5430  
[www.tbccvacaville.com](http://www.tbccvacaville.com)  
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**Sunday:**  
Worship Service & Bible Study.....9:00 am  
Worship Service & Bible Study.....10:30 am  
Evening Worship & Prayer.....6:00 pm

**Wednesday:**  
Dinner (Sept-May).....4:45 pm  
AWANA (Sept-May).....6:00 pm  
Youth.....6:00 pm  
Choir.....6:30 am  
Bible Study...10:00 am, 1:30 pm, 3:30 pm & 6:30 pm  
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Tuesday Night Teaching 7:00 p.m.  
AWANA Bible Study 7:00 p.m.  
Sunday Worship 7:00 a.m., 9:30 a.m. & 11:45 a.m.  
Children's Church 11:45 a.m.  
Youth & Collegiate Church 11:45 a.m.  
1st, 2nd, & 3rd Sundays  
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Classes for all ages.....10:00 am  
Worship.....11:00 am  
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**WEDNESDAY**  
Adult Studies.....2:00 pm  
AWANA for Kids .....6:15 pm  
Adult & Youth Studies.....6:30 pm

## CHURCH OF CHRIST

**YOU** are the one that God loves the most.  
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*Jesus said, I am the resurrection, and the life: he that believeth in me, though he were dead, yet shall he live; John 11:25*

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**Sunday Evening Worship .....6 PM**  
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Holy Eucharist Rite I

**9:15 a.m.**  
Pastor's Forum

**10:00 a.m.**  
Holy Eucharist Rite II

**Tuesday Service:**  
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**Sunday:** 8:30am & 11:15am with Bible Studies and Sunday School for all ages at 10:00am  
Communion on the 1st and 3rd Sundays of the month @ 621 S. Orchard Ave., VV

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# Solar cells deliver high efficiency, reduced costs

**Marisa Alia-Novobilski**

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Experts at the Air Force Research Laboratory continue to expand the scope of their technological expertise, rising above the Earth's surface to meet the power needs of next generation military spacecraft.

A collaborative effort between the AFRL Materials and

Manufacturing and Space Vehicles Directorates, the Space Industrial Base Working Group and SolAero Technologies has resulted in state-of-the art, multi-junction solar cells destined to reduce costs and increase power efficiency for military space applications.

"These are the most advanced, efficient and affordable solar cells available for use

in space," said Kerry Bennington, an electronics engineer in the AFRL Materials and Manufacturing Directorate. "These cells provide 15 percent more power than current state-of-practice solar cells of the same size. Ultimately, you can get the same amount of power using less cells, leaving more mass and space for other applications on a space-based platform."

As both military and civilian populations continue to rely more heavily on space-based applications for GPS, communications and more, satellites carrying these payloads require increased power to deliver additional capabilities. Maximizing power while decreasing mass and reducing cost has been an ongoing manufacturing challenge.

In addition, the harsh operating conditions of the space environment, with extremes of heat and cold and high levels of radiation, require materials that can endure the volatility over long-term use.

Silicon solar cells, which are primarily used for terrestrial applications, are inexpensive when it comes to solar cell

See **SOLAR** Page 31

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**Sunday Morning Worship**  
10:30 AM

**Sunday Evening Worship**  
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**Wed. Evening Bible Study**  
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Travis, New Jersey base picked for KC-46A

Air Force officials select Travis Air Force Base, California, and Joint Base McGuire Dix Lakehurst, New Jersey, as the preferred locations for the next two active-duty-led KC-46A Pegasus bases in January 2017.

Twenty-four KC-46A aircraft will replace the legacy aircraft at each of those bases.

“Joint Base McGuire Dix Lakehurst and Travis AFB were chosen as the next two active-duty-led KC-46A bases because they meet all operational mission requirements at the best value for the Air Force and the American taxpayer and support our tanker recapitalization strategy,” said Air Force Secretary Deborah Lee James. “It is absolutely essential that we continue investing in the next generation of tanker aircraft so we have the aircraft necessary to maintain the nation’s global reach for years to come.”

Fairchild AFB, Washington, and Grand Forks AFB, North Dakota, will be considered as reasonable alternatives during the environmental impact analysis process which is required before a final basing decision is made.

At this time, the Air Force is planning to divest the legacy

tankers after growing the tanker fleet to meet its 479 tanker requirement. The timeline is dependent on the KC-46A delivery schedule, but it is not anticipated to reach sufficient KC-46A fleet size and begin legacy divestment at the first location until 2019.

621st CRW Airmen return from Iraq

Family and friends, many holding welcome-home signs, filled the room to greet Airmen from the 621st Contingency Response Wing as they returned earlier this month to Travis Air Force Base, California, after a three-month deployment to Iraq in January 2017.

The 621st CRW Airmen operated out of Qayyarah West Airfield, Iraq, where they enabled and sustained air operations at the Coalition airfield.

The airfield, situated just 30 miles south of Mosul, was recaptured from Da’esh by Iraqi forces in July 2016, and has been refurbished by Coalition engineers to allow the commencement of air operations. It is now a strategic launching pad and frontline resupply depot.

During the 621st CRW time at the airfield, the air traffic control team coordinated with and controlled anywhere from 40 to 50 aircraft a day.



The KC-46 program’s first test aircraft touches down Oct. 15, 2015, at Edwards Air Force Base, Calif. The Air Force announced Jan. 12, 2017, the KC-46A will make its future home at Travis Air Force Base, Calif.

Band performs at Trump inauguration

Eight musicians from the Band of the Golden West at Travis Air Force Base, California, performed at the Inauguration of President Donald Trump, the 45th president of the United States, Jan. 20, 2017, at the Capitol.

The members augmented the U.S. Air Force Band along with other regional bands to provide ceremonial music throughout the event.

The eight representatives from Travis play various instruments and have experience ranging from six months to 10 years.

Those selected to play at the event were given music to memorize and rehearsals began a week prior to the inauguration.

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the first hour after a traumatic injury – to 99 percent and saving lives with the resuscitative endovascular balloon occlusion of the aorta, or REBOA, catheter. He also witnessed innovation at the 60th Operations Group with the Graduate Training Integration Management System, which allows aircrew to optimize and manage all aspects of aviation operations and training.

Though Everhart spent most of his time with Airmen, he also spoke with community leaders at the Solano County Economic Development Corporation annual luncheon in Fairfield, California.

Travis helps transport Army equipment

Three C-5 Super Galaxies from Travis Air Force Base, California, transported equipment to Osan Air Base, Republic of Korea, Jan. 25-26, 2017, to support the overhaul of an Army fleet.

The equipment was offloaded and transported to nearby Suwon Air Base, where defense contractors from Raytheon and the Lower Tier Project Office will begin the mass overhaul.

Upon completion, the Army brigade will operate with the most technological advanced equipment within the ADA community.

Prop 64

Article 112a, any DoD member is subject to this chapter and if found using, possessing, manufacturing, distributing drugs or introducing into an installation, vehicle or aircraft shall be punished as a court-marital may direct.

Marijuana is a Schedule I drug, meaning it is illegal for military members to use or possess it in any form and is in violation of UCMJ Article 112a, which applies to all military members on and off duty.

Travis AFB is a federal installation and any individuals on Travis are subject to federal law, meaning it is illegal for anyone, military or civilian, to possess marijuana anywhere on the installation, including on-base housing. If found on the installation, individuals may be subject to court procedures, base debarment or other disciplinary action. This means even for civilian dependents of military members, it is illegal for them to use, possess, distribute, manufacture or introduce marijuana while on the installation.

This can have repercussions for the sponsor as well. Sponsors are reminded that it is their responsibility to ensure dependents are aware of, and abide by, all Federal, Air Force and Travis laws and regulations.

The restrictions above not only apply to members of the military. Executive order 12564, Drug-Free Federal Workplace, requires federal employees to refrain from the use of illegal drugs, as defined by federal law, both on and off duty. Violation of EO 12564 can lead to disciplinary actions, including removal from federal civil service.

Military members, federal employees and dependents need to be aware that marijuana can be sold in food, drinks and other forms. Marijuana in commercial forms is still illegal as outline above.

To avoid any violations of the policy and law, all Travis personnel are advised to avoid locations that have drugs or promote drugs or drug use.

Additionally, personnel should avoid any products that

contain hemp or hemp seed oil, such as some shampoos and soap. Use of Hemp products and any other products containing Hemp are prohibited and a violation of Article 92, UCMJ. Studies have shown products made with hemp seed and hemp seed oil may contain varying levels of tetrahydrocannabinol, an active ingredient of marijuana, which is detectable under the Air Force Drug Testing Program.

In order to ensure military readiness, the ingestion of products containing or products derived from the hemp seed or seed oil is prohibited. Products containing hemp seed or hemp seed oil are readily available, especially through the internet. The quantity of THC in those products are often unknown.

Due to hemp seed products being readily available around the world with no standard regulatory oversight, it becomes an impossible task to prevent members from inadvertently consuming hemp seed THC that could result in a false positive drug test result. Therefore, it is easier to ban the consumption of hemp seed products than to educate and expect members to understand which hemp seed products they consume may cause a THC positive drug test. Prohibiting the consumption of hemp seed products serves the purpose of protecting Airmen without detracting from the mission or unnecessarily limiting the types of food airmen may consume.

The 60th Air Mobility Wing Drug Demand Reduction Program regularly tests for drug use.

Travis is required to collect 100 percent of the base’s end strength, or approximately 6,200 samples for the fiscal year.

THC use at Travis has increased in the last two years. In fiscal year 16, there were 12 positive tests for THC. In FY 17, it was 21 positive tests. A positive test result, or other evidence of controlled substance abuse, can have serious career consequences.

For questions or concerns, contact the DDRP at 707-424-0153.

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## Article

From Page 3

newborn care and professional nursing issues.

The article is the result of an evidence based practice change that the labor and delivery unit initiated in November 2015 to improve infant skin care, said Maj. Jeannette Brogan, 60th Medical Group Maternal Child Flight commander and prenatal clinical nurse specialist.

"An evidence based practice is taking research that has already been done and translating it into practice," said Brogan, who co-authored the journal article with Capt. Gloria Rapkin who is now assigned as a clinical nurse at the San Antonio Military Medical Center, Fort Sam Houston, Texas.

EBP is used in a variety of fields including medicine and psychology.

Although previous studies have not identified an optimal time for a newborn's first bath, the Association of Women's Health, Obstetric and Neonatal Nurses recommended delayed bathing in 2013 to allow the vernix caseosa to absorb into the infant's skin.

The vernix – the waxy cheese-like substance that coats newborn skin – is believed to cleanse and moisturize the skin, regulate temperature, develop appropriate pH levels, help with wound healing and protect the infant from infection. However, as with most military treatment facilities, the labor and delivery staff at Travis sponged bathed healthy term newborns when they were about 2 to 4 hours old.

After comparing the data from this study, the staff now instructs parents how to bathe

their child in a newborn tub in their delivery room when the infant is 24 hours old and to do it in five minutes to prevent heat loss.

"We are thrilled that the results we have seen in decreasing newborn hypothermia can be shared with the rest of the obstetrics community and particularly our Air Force and Department of Defense counterparts who are interested in implementing this process at their facilities," said Brogan.

Although there is mounting evidence that delaying newborn baths promotes breastfeeding, decreases hypothermia and allows for more parental involvement, Brogan said the practice is not routine.

"Our hope is that this project will encourage other facilities to change their method of bathing," she said.

In fact, Brogan is already working with multiple Air Force military treatment facilities to implement delayed immersion bathing.

"They will be collecting data pre- and post-implementation and sending that information back to DGMC so we can compile it and have organizational level results," said Brogan.

The EBP team, which included Maj. (Dr.) Laura White, 60th MDG inpatient pediatric medical director, won an award for their delayed immersion bathing project in May and will use the grant money to purchase newborn tubs for the participating MTFs.

"Immersion bathing encourages hospitals to practice rooming-in, which allows mothers and newborns to stay together, and is a great opportunity to teach parents how to properly care for their newborn's skin," the authors stated in journal article.

To evaluate the

effectiveness of the practice change, the team reviewed electronic health records to compare newborn temperature data for all infants born from Nov. 1, 2014 to Oct. 31, 2015 who were sponge bathed with data collected on infants born from Nov. 1, 2015 to Oct. 31, 2016 who were bathed by their parents.

Additionally, the team collaborated with several mothers who had previously given birth at DGMC to develop a survey to determine parents' beliefs about the importance of delayed bathing, parent participation and the bath experience as a whole.

Parents of newborns who received a tub bath in December 2016 and January 2017

completed the survey before leaving the hospital.

Of the 36 respondents, 44 percent said they had never bathed a newborn, 77 percent said they preferred to have staff assists with baths and 89 percent said they wanted to bathe their newborn and believed that this was an important part of the birth experience. The survey also showed that 72 percent of parents were not sure if delaying the first bath was that important for their baby's skin.

"This highlighted the opportunity for education about the benefits of delaying the first bath," the authors stated in the article. The article concluded that, overall, parents were satisfied with the new


process.

The cost is minimal, and the benefits of decreased cold stress, increased skin protection, and increased parent satisfaction are overwhelming and foster optimal newborn outcomes," the authors wrote.

With the delayed immersion bathing becoming routine at DGMC, the labor and delivery unit is now recruiting participants for a study to evaluate the impact of allowing women to eat during labor.

"Once this study is completed, we plan to write up the results and disseminate to an appropriate scholarly journal for publication," said Brogan.

Volunteers for the study should contact their primary care provider at DGMC.



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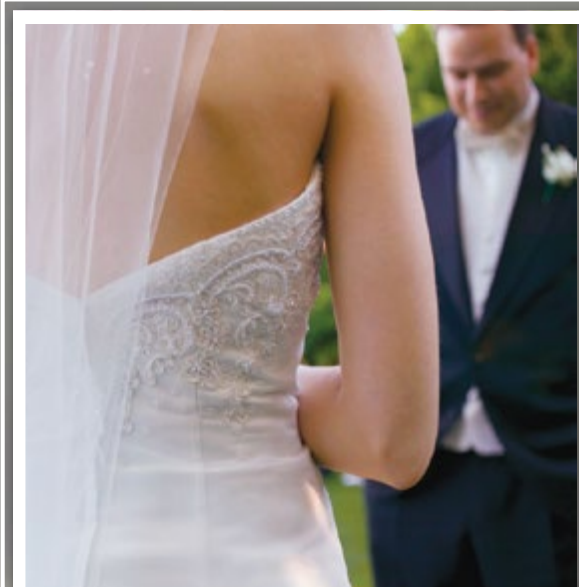
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Jose Ramirez (707) 363-4923 Español  
maxramirez.welds@gmail.com

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Fax: (707) 425-5924

Email: drclass@dailyrepublic.net

## How to Write An Ad

- Put yourself in the reader's shoes. What would you want to know about the product or service you are interested in? Be descriptive.
- Include a brand name, if available.
- List the features of your product or service. What makes it different from other items in the same category?
- Avoid abbreviations. They can abbreviate your results. (The Tailwind uses only standard abbreviations and requires proper punctuation.)
- Include the price.
- Include your phone number and the best times to call.

## Copy Acceptance • Cancellations Payment • Adjustments

**Copy Acceptance:** The Tailwind reserves the right to classify all advertisements, to delete objectionable words or phrases or to edit or refuse any advertisement. Classified advertisements are accepted in good faith and must specify a bonafide offer. The Tailwind accepts only standard abbreviations and requires proper punctuation. Better results will be secured from ads that are easily read and understood.

**Cancellations:** Deadlines for ad cancellations are the same as those for placing ads. You will be billed only for the days your ad actually runs, unless it is a special rate package.

**Payment:** All ads are accepted subject to credit approval. (Some classifications must be pre-paid). The Tailwind may require payment in full before accepting new ad copy or require cash with copy.

**Adjustments:** Please check your ad the first day it is published. If you find an error, please call 427-6936 so we can make a correction and, if necessary, adjust your bill.

## Deadlines

To place, correct or cancel an ad. To ensure publication, the advertiser must meet the current deadline schedule. In the event of a holiday, special section, or unforeseen circumstances, advance deadlines may be in effect.

Classified In-Column Ads

Tailwind (Friday).....Wednesday 5:00pm  
Faxed Ads.....2 hours earlier than above deadline

## Where To Find An Ad

100 - Announcements	500 - Employment
200 - Real Estate	600 - Merchandise
275 - Commercial Prop.	675 - Pets, Farm & Garden
300 - Rentals	700 - Recreational Vehicles
400 - Bus. Op. & Financial	800 - Automotive





News Notes

Information Protection office hours.

The 60th AMW Information Protection office no longer offers walk-in fingerprint hours. All requests are done on Thursdays and by appointment only. Schedule an appointment by calling 707-424-3114 or by email-ing 60amw.ip@us.af.mil. Fingerprinting is only for federal employment and for agencies with a valid support agreement.

Scholarships for Military Children.

Open to sons and daughters of active duty, reserve, Guard or retired military commissary customers. Recipient must be enrolled or planning to enroll full-time in a four-year undergraduate college or university accredited in the U.S. or a two-year community college, with a GPA of 3.0 on a 4.0 basis. For more information, call Marye Dobson at 804-734-8000, ext. 52781, Jim Weiskopf at 202-607-1067 or visit www.militaryscholar.org.

Sierra Inn dining facility closure.

The DFAC, Sierra Inn, will close Jan. 15 for an extended time due to remodeling. All dining services will be moved to the Delta Breeze Club. Midnight chow will not be served, but all other meals provided.

Travis AFB Heritage Center

**Behind-the-Scenes Tour.** 9:30 a.m. to 12:30 p.m. Jan. 18. Donuts and coffee provided. Free. For more information, contact the Heritage Center at 707-424-5883.

Reel Time

Here are the showtimes for this weekend's movies at the Base Theater:

Jan. 5

- 6:30 p.m. "Roman J. Israel, Esq." (PG-13)
- 9 p.m. "The Shape of Water" (R)

Jan. 6

- 7 p.m. "Den of Thieves" (R, free advance screening)

Jan. 7

- 2 p.m. "The Star" (PG)

Chapel programs

Recurring events

Catholic

Twin Peaks Chapel

- Roman Catholic Mass: 9 a.m. and noon Sunday.
- Children's Church: 10:15 a.m. Sunday.
- Sacrament of Reconciliation/Confession: 4:30 to 5:30 p.m. Wednesday or upon appointment.
- 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.

Swap Ads

Homes for rent

3/2, very clean, 3 mins to Travis. Living room, dining room, family room, fire place, dishwasher, microwave, custom draperies. Top-of-the-line carpet. 3 patios. A/C. No pets, no Sec. 8. \$2,000 plus deposit. 707-425-5679.

first Monday of every month, Annex.

- Rite of Christian Initiation of Adults: 6 to 7:30 p.m. Wednesday, Annex.
- RE Classes: 10:15 to 11:30 a.m. Sunday, RE Wing.

First Street Chapel

- 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 11 a.m. Sunday at Church of Jesus Christ of Latter-day Saints Fairfield Stake Center, 2700 Camrose Ave., Fairfield.

DGMC Chapel

- Latter-day Saints Service: 4 p.m. to 4:30 p.m. Sunday at DGMC Medical Center Chapel.
- For all other enquires, call LDS Military relations representatives at 707-535-6979

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: 8 to 9 a.m., first Saturday of every month.

Twin Peaks Chapel

- Protestant Women of the Chapel: 9:30 to 11 a.m. Tuesday.
- DGMC Medical Center Chapel
- Protestant Traditional Service: 10 a.m. to 11 a.m. Sunday.

Airmen's Ministry Center

- The Peak is open from 6 to 9 p.m. Monday through Friday at Bldg 1348. Home-cooked meal at 6 p.m. Tuesday's followed at 7 p.m. by Bible study.



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

60th FSS

Events and information

Home for the Holiday Reservations.

Westwind Inn is now available for holiday reservations. Book loved ones' stay for up to 14 nights. The reservation period is through Jan. 4. For more information, call 707-424-8000.

**Huddle up for football.** Did you know

the Delta Breeze Club offers the NFL Ticket for free every Sunday, Monday and Thursday? You could even win Super Bowl 2018 Tickets. For more information, call 707-437-3711.

**\$1 Bingo at Travis Bowl.** Travis Bowl is now offering daily \$1 Bingo. Win up to \$200. Each bingo card is \$1 and participants must be 18 to play. For more information, call 707-437-4737.

**Online language courses.** Mitchell Memorial Library is offering Mango Languages for free. Learn Dutch, Spanish, French, Korean, Japanese, Italian and more at your own pace. For more information, call the library at 707-424-3279.

**Custom vacation packages.** Leisure Travel located inside Outdoor Recreation books travel destinations like Hawaii, Mexico, Las Vegas and more. Options include rental car, lodging, excursions, airfare and cruises. For more information, call 707-424-5250.



For more information on FSS, visit http://www.travisfss.com.

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 Sergeants Association "Walter E. Scott" Chapter 1320.** General membership meetings are at 3 p.m. on the second Friday of every month at Wingman's in the Delta Breeze Club. For more information, contact Senior Master Sgt. Angell Nichols or Tech. Sgt. Rebecca Linden de Romero.

**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.

Airmen complete FTAC



U.S. Air Force photo/Airman 1st Class Jonathon D. A. Carnell

Congratulations to the Airmen to complete the First Term Airman Center course from Dec. 15-22, 2017. Alphabetically: Airman 1st Class Edrick Abella, 60th Maintenance Squadron; Airman 1st Class Chase Bravard, 60th Logistics Readiness Squadron; Airman Basic Diana Brewer, 60th Force Support Squadron; Airman Basic Michael Bucholz, 860th Aircraft Maintenance Squadron; Airman 1st Class Michael Centeno, 660th AMXS; Airman 1st Class Kevin Clayton, 60th AMXS; Airman 1st Class Logan Cormier, 60th AMXS; Airman 1st Class Chelsea Cox, U.S. Air Force Band of the Golden West; Airman 1st Class Jonathan Davis, 660th AMXS; Airman Jacob Dodson, 60th AMXS; Airman Gretchen Hallowell, 60th CES; Airman 1st Class Alexandra Hany, 60th BA-T; Airman Jared Harrison, 660th AMXS; Airman 1st Class Micheal Havens, 60th BA-T; Airman 1st Class Kayla Highsmith, 60th BA-T; Airman Andres Iturriaga-Ibarra, 660th AMXS; Airman 1st Class Brian Izaquiere, 60th Medical Support Squadron; Airman 1st Class Jessica McNeal, 60th Operations Support Squadron; Airman 1st Class Mbeye Ndepp, 60th APS; Airman Graig Penna, 60th Dental Squadron; Airman 1st Class Alyssa Pluskota, 60th Inpatient Squadron; Airman 1st Class Tanner Post, 860th AMXS; Airman 1st Class Christopher Rodriguez, 860th AMXS; Airman Robert Rodriguez, 60th LRS; Airman Hunter Smith, 60th DS; Airman 1st Class Cameron Stoker, 660th AMXS; Airman 1st Class Jay Sutey, 60th BA-T; Airman 1st Class Christopher Thomas, 60th Civil Engineer Squadron; Airman 1st Class Yamariki Toukou, 60th CES; and Airman 1st Class Danielle Worley, 60th Diagnostics and Therapeutics Squadron.

Puzzles

STR8TS

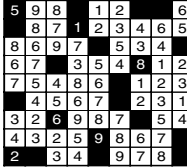
No. 367

Tough



You can find more help, tips and hints at [www.str8ts.com](http://www.str8ts.com)

Previous solution - Medium

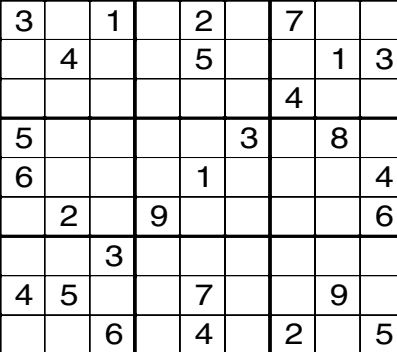


How to beat STR8ts – Like Sudoku, no single number can repeat in any row or column. But... rows and columns are divided by black squares into **compartments**. These need to be filled in with numbers that complete a 'straight'. A **straight** is a set of numbers with no gaps but can be in any order, 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 see how 'straights' are formed.

SUDOKU

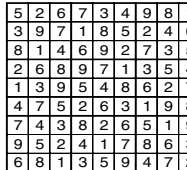
No. 367

Easy



The solutions will be published here in the next issue.

Previous solution - Medium



To complete Sudoku, fill the board by entering numbers 1 to 9 such that each row, column and 3x3 box contains every number uniquely.

For many strategies, hints and tips, visit [www.sudokuwiki.org](http://www.sudokuwiki.org)

If you like STR8ts, Sudoku and other puzzles, check out our books, iPhone/iPad Apps and much more on our store at [www.str8ts.com](http://www.str8ts.com)

Solar

From Page 21

technologies, however, even the most efficient silicon-based solar panels only convert around 20 to 25 percent of sunlight to electricity. Silicon solar cells are extremely sensitive to radiation in space and experience severe efficiency degradation over time.

By contrast, modern space-craft favor the use of multi-junction solar cells that take advantage of multiple layers of light-absorbing materials, each of which efficiently convert specific wavelength regions of the solar spectrum into energy. These cells, typically grown on germanium substrates, are more efficient than silicon and much more tolerant of radiation in the space environment. However, despite the increased output enabled by these types of cells, increasing payload power needs and limits in mass and volume of next generation spacecraft require continued development of more efficient, lighter cells of this kind.

To solve the efficiency and mass needs of the space community, a collaboration between AFRL, the U.S. government and industry was launched and ultimately led to the development and refinement of a new cell architecture that takes advantage of an upside-down growth process to manufacture multi-junction cells. The process results in what are called Inverted Metamorphic Multi-Junction solar cells, which are more efficient and a lighter weight than multi-junction cells currently in use.

"(AFRL) began looking at this specific technology back in the mid-2000s, recognizing that increasing power needs of spacecraft would require more efficient solar technologies,"

said Bennington. "The challenge was to efficiently and cost-effectively grow IMM cells qualified for use in space."

The process to grow IMM solar cells begins when thin layers of semiconductor materials are deposited on a growth substrate such as gallium arsenide. The entire device is turned upside-down, and the semiconductor materials are bonded to a mechanical handle. The growth substrate, which is now on top, is removed, and processing on the front-end of the device is then completed.

"We found that by growing cells upside down on gallium arsenide, we can more effectively tailor the material properties of the individual absorbing layers. This results in more effective utilization of the solar spectrum and produces cells with significantly better performance," said Bennington. "By removing the rigid growth substrate, we end up with a cell that is lightweight and extremely flexible. A single IMM cell can convert more than 32 percent of captured sunlight into energy."

The new IMM solar cells, said Bennington, are able to achieve a 15 percent increase in power when compared with a same-sized array of standard practice multi-junction cells. This enables engineers to decrease the mass and area of a solar array and still achieve the same power, leaving more space for other applications on a space platform.

The advanced solar cells are undergoing testing and qualification to the American Institute for Aeronautics and Astronautics S-111 standard and are expected to be space qualified this year. Recently, two CubeSats, each with 56 IMM solar cells as their only source of power, were placed on orbit, enabling these cells to gain flight heritage.

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\$169 per month for 36 months. \$5,190 total due at signing. Includes down payment with no security deposit. Excludes tax, title, and other dealer fees or documentary service fee. For well-qualified lessees. Not cap cost. Includes \$500 acquisition fee. Lessee responsible at lease end for mileage in excess of 12,000 miles per year at 15¢ per mile. On approved credit through Honda Financial Services. Offer valid from 1/5/2018 through 2/28/2018.

#### New 2017 Honda Accord Coupe CVT LX-S

AUTOMATIC  
Model# CT1B3HEW

**LEASE FOR ONLY \$189** per month for 36 months

\$189 per month for 36 months. \$2,298 total due at signing. Includes down payment with no security deposit. Excludes tax, title, and other dealer fees or documentary service fee. For well-qualified lessees. Not cap cost. Includes \$500 acquisition fee. Lessee responsible at lease end for mileage in excess of 12,000 miles per year at 15¢ per mile. On approved credit through Honda Financial Services. Offer valid from 1/5/2018 through 2/28/2018.

#### New 2017 Honda Pilot 6 Speed 2WD EX-L

AUTOMATIC  
Model# YF5H5LHW

**LEASE FOR ONLY \$349** per month for 36 months

\$349 per month for 36 months. \$3,190 total due at signing. Includes down payment with no security deposit. Excludes tax, title, and other dealer fees or documentary service fee. For well-qualified lessees. Not cap cost. Includes \$500 acquisition fee. Lessee responsible at lease end for mileage in excess of 12,000 miles per year at 15¢ per mile. On approved credit through Honda Financial Services. Offer valid from 1/5/2018 through 2/28/2018.

#### New 2018 Honda Fit CVT Sport

AUTOMATIC  
Model# GK5H6JEW

**LEASE FOR ONLY \$169** per month for 36 months

\$169 per month for 36 months. \$2,298 total due at signing. Includes down payment with no security deposit. Excludes tax, title, and other dealer fees or documentary service fee. For well-qualified lessees. Not cap cost. Includes \$500 acquisition fee. Lessee responsible at lease end for mileage in excess of 12,000 miles per year at 15¢ per mile. On approved credit through Honda Financial Services. Offer valid from 1/5/2018 through 2/28/2018.

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**HONDA Financial Services** **\$500 Military Appreciation Offer**

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