

Crimson Sky



People wait in line to view the inside of a C-17 Globemaster III, during the Singapore International Airshow at Changi Exhibition Centre, Singapore, Feb. 10, 2018. Through participation in airshows and regional events, the U.S. demonstrates its commitment to the security of the Indo-Pacific region, promotes interoperability, displays the flexible combat capabilities of the U.S. military, and creates lasting relationships with international audiences to strengthen the bonds that support partnership building throughout the Indo-Pacific region. (U.S. Air Force photo by Staff Sgt. David Owsianka)

SIA 2018 strengthened bonds, increased relationships

By Staff Sgt. David Owsianka, Headquarters Pacific Air Forces Public Affairs

CHANGI INTERNATIONAL AIRPORT, Singapore -- Approximately 100,000 people poured onto the flightline to experience the 2018 Singapore International Airshow at the Changi Exhibition Centre, Singapore, Feb. 6-11, 2018.

The air show is the largest defense exhibition and biennial international trade and airshow in the Pacific, with approximately 50 nations and foreign delegations and 1,000 defense contractors participating.



"This event was a great opportunity for us to showcase our capabilities as a military to those in attendance," said Col. Christopher Furot, Singapore International Airshow U.S. mission commander. "Being here also gives us the chance to engage with foreign partners, to promote regional stability and security while creating lasting relationships to support each other."

The large crowd had the opportunity to visit the various aircraft in attendance and interact with the aircrews.

- Continued on page 5 -



C-17 crews help realign assets to Afghanistan



Medal of Honor recipient, former POW laid to rest



Military working dog revived by vet tech

Crimson Sky

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Winners of the 8th Fighter Wing 2017 Annual Awards pose for a photo during the "Night of the Stars" banquet at Kunsan Air Base, Republic of Korea, Feb. 9, 2018. The winners were selected at the top performers in their respective categories for the 2017 calendar year. (U.S. Air Force photo by Staff Sgt. Jasmonet D. Jackson)

8th Fighter Wing reveal 2017 annual award winners

By Staff Sgt. Jasmonet D. Jackson, 8th Fighter Wing Public Affairs

KUNSAN AIR BASE -- The 8th Fighter Wing reveal 2017 annual award winners 200 USO locations located around the world, Kunsan is an unaccompanied base with no families and limited resources. It does not allow for a USO to be stationed here.

"The Osan USO shows a lot of interest in helping us here," said Willson. "So far it's been a really big deal, especially for members who are in our position."

The USO keeps America's military members connected to family, home and country, throughout their service to the nation. It's their job

to adapt to the needs of the ones in uniform or even retired so that they can focus on their very important mission.

Civilian Category I

Mr. Kang, Hui Song – 8th MSG

Civilian Category II

Ms. Hwang, Min A. – 8th MSG

Civilian Category III

Ms. Gonzales, Lourene – 8th MSG

Airman of the Year

SrA Ross, Jonathan -- 8th OG

Noncommissioned Officer of the Year

TSgt Regan, Ian – 8th MXG

Senior Noncommissioned Officer

of the Year

MSgt Swank, Richard – 8th MSG

Company Grade Officer of the Year

Capt. Randolph, Jeffrey – 8th OG

Field Grade Officer of the Year

Maj. Schuldt, Steven – 8th MSG

First Sergeant of the Year

MSgt Moritz, Jason – 8th MXG

Flight Commander of the Year

Capt. Cagle, Christopher – 8th MSG

Volunteer of the Year

MSgt Willson, Paul – 8th MSG

Honor Guard Member of the Year

SSgt Caffrey, Patrick – 8th MSG

Team of the Year

Inspector General – 8th FWSA



Team of the Year



Civilian Category I

Communication on demand



Tech. Sgt. Mathew Eisenbarth, 386th Expeditionary Communications Squadron ground radio section chief, prepares the communication fly-away kit to be taken down at an undisclosed location in Southwest Asia, Jan. 31, 2018. The CFK is setup and tested on a weekly basis to ensure it is fully functional should it be called upon to provide primary communication support. (U.S. Air Force photo by Staff Sgt. William Banton)

By Staff Sgt. William Banton, 386th Air Expeditionary Wing Public Affairs

SOUTHWEST ASIA (AFNS) -- Imagine a military unit is pushed to the brink of stress.

They're behind enemy lines, required to relocate from a base in short notice or recovering a crashed aircraft.

Now imagine this same scenario without the ability to communicate for support.

The 386th Expeditionary Communications Squadron trains with a communication fly-away kit for these what-if scenarios.

"We just need power," said Tech. Sgt. Mathew Eisenbarth, 386th ECS ground radio section chief deployed from the 190th Air Refueling Wing, Kansas Air National Guard. "It's got a couple of cases in the fly-away kit that we can rapidly set up for quick communications. This is actually a backup to a backup here, and is a deployable unit for command and control and satellite communication capabilities in a deployed location."

Command and control is the ability to support and coordinate operations using a centralized command, distributed control and decentralized execution. The Air Force operates a variety of communications systems utilizing both radio and satellite technology, including the communication fly-away kit to do so.

The kit provides a non-secure internet protocol router, secure internet protocol router and voice over secure internet protocol communication capabilities for remote locations and can be integrated into established communication networks as a backup system. According to the Defense Information Systems Agency, a VoSIP service provides a cost-effective, reliable, and secure means of classified voice communications, and has direct calling capabilities.

Weighing approximately 45 pounds, the kit can be deployed operationally in less than 30 minutes,

allowing operators to quickly communicate support requests if needed.

The capability is crucial to assuring that the military maintains command and control capabilities when operating remotely in situations which would require robust secure network and teleconferencing support. The unit allows troops to communicate real time updates and request anything from additional water and rations, to air support at short notice.

The unit is designed to transfer a lot of information quickly, requiring technicians to accompany it assuring the computer and telephones can smoothly interface with the communication fly-away kit, said Senior Airman Angel Perez, 386th ECS, cyber transport systems

technician deployed from Robins Air Force Base, Georgia.

"Without ground radio technicians, we would not have internet at all, we would not be able to make a phone call, we wouldn't be able to do anything," Perez said.

"While you never want for this thing to have to be fired up in the real world, we want to make sure that we are there to be able to support it," Eisenbarth said.

The 386th ECS currently utilizes the unit as a third back up to their established communication network. The kit is setup and tested on a weekly basis to ensure it is fully functional should it be called upon to provide primary communication support.



Tech. Sgt. Mathew Eisenbarth, 386th Expeditionary Communications Squadron ground radio section chief, and Staff Sgt. Rodger Fladung, 386th ECS ground radio technician, take apart a communication fly-away kit to be taken down at an undisclosed location in Southwest Asia, Jan. 31, 2018. The CFK is setup and tested on a weekly basis to ensure it is fully functional should it be called upon to provide primary communication support. (U.S. Air Force photo by Staff Sgt. William Banton)



Air Force Vice Chief of Staff Gen. Stephen Wilson speaks to the Senate Armed Services Committee in Washington, D.C., Feb. 14, 2018. Wilson and other members of the panel discussed the readiness of the Armed Forces. (U.S. Air Force photo by Wayne A. Clark)

Air Force Vice Chief of Staff to Congress: help us win any fight at any time

By Tech. Sgt. Robert Barnett, Secretary of the Air Force Public Affairs

WASHINGTON (AFNS) -- Air Force Vice Chief of Staff Gen. Stephen Wilson testified before the Readiness and Management Senate Subcommittee concerning the Air Force's current readiness Feb. 14, 2018, in Washington, D.C.

"Today, our chief competitors are moving ahead with a speed and scale unseen in recent history," Wilson said. "We must counter that with sustained, urgent action."

To move at "the speed of relevance," he asked for the subcommittee's continued support in the following areas: support for competitive personnel policies to attract and retain talent, risk-taking innovation, and national research efforts in science and technology to expand the country's competitive space. In order to address

the concerns, budget stability and a return to fiscal order are needed, Wilson said.

"Collectively, these efforts will help build a more lethal and ready force," Wilson said.

To attract and retain talent, the Air Force plans to increase its end strength by 4,700 total force Airmen in 2019. Leaders are supporting innovation by investing in science, technology, engineering and mathematics in the workforce. Currently more than 25,000 Airmen have STEM degrees and the Air Force plans for additional recruitment, retention and development of this vital area, he said.

Air Force leaders are also promoting pilot production and training to address pilot shortfalls, he said. Additional training and

weapon systems sustainment funding will establish a strong foundation for improved aircraft availability and higher flying hour execution rates. This increases peacetime operational training and readiness, supporting retention, innovation, and promoting technological advancement.

The Air Force will also invest in jam-resistant satellites, purchase more F-35A Lightning II fighters and KC-46 Pegasus tankers, and continue the development of the B-21 Raider bomber, expanding competitive space in science and technology.

"With your help, we can accelerate to building a more lethal force, ready to defeat terrorists and to win any fight, anywhere," Wilson said.

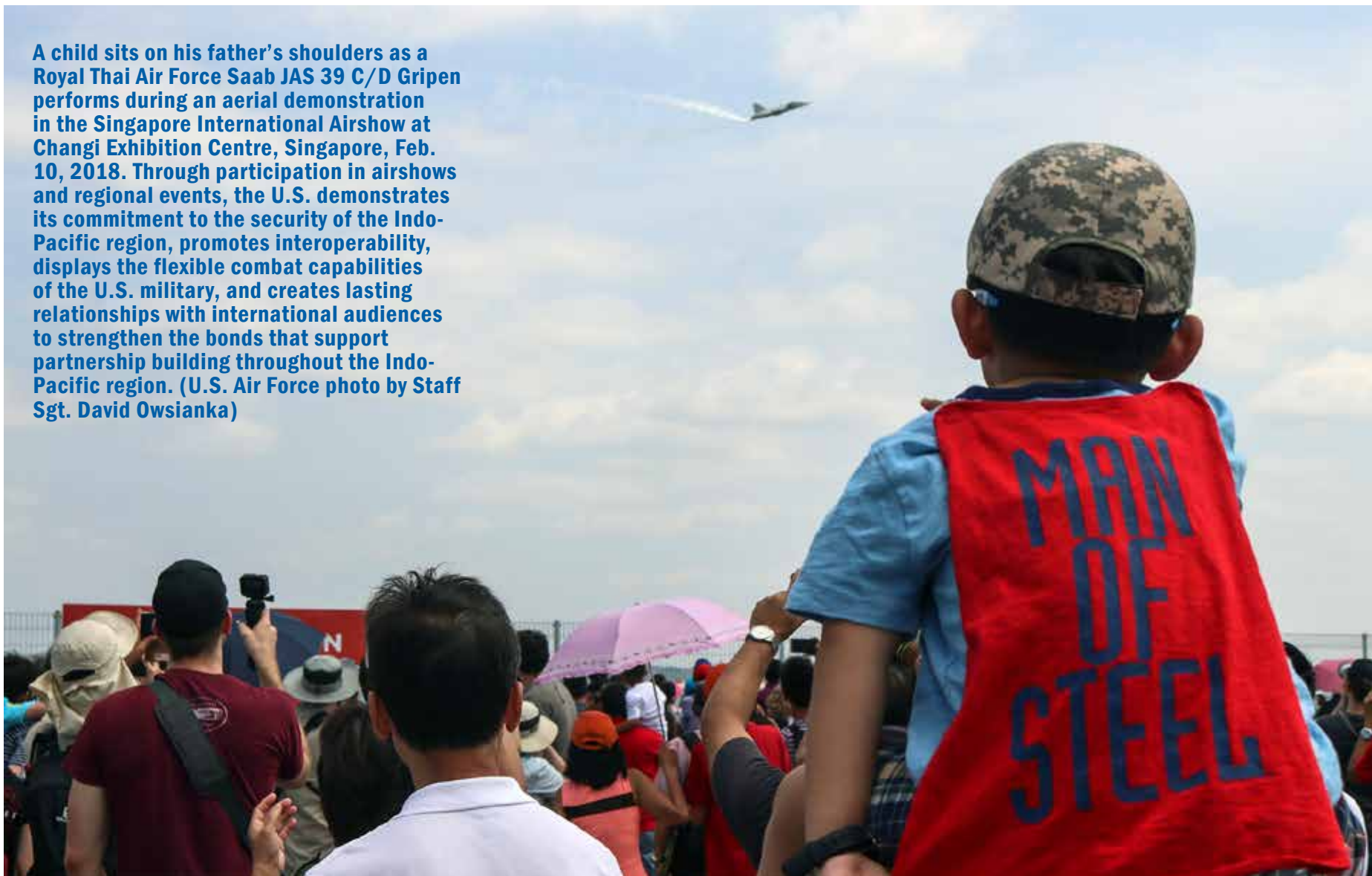
• BULLETIN •

INDEPENDENCE MOVEMENT DAY, 1 Mar 2018, Thursday, is a legal holiday for Korean National (KN) civilian employees. All KN civilian employees will be released from duty without charge to leave or loss of pay. KN civilian employees required to work on this holiday must be paid holiday premium pay for all hour worked. If the holiday falls on an employee's non-work day, no

substitute day will be granted. Employees in a non-pay status the work day before and the work day after a holiday will not be paid for the holiday.

For additional information/guidance, please contact the Labor and Employee Management Relations Section of the Civilian Personnel Office at 784-4434/8177.

A child sits on his father's shoulders as a Royal Thai Air Force Saab JAS 39 C/D Gripen performs during an aerial demonstration in the Singapore International Airshow at Changi Exhibition Centre, Singapore, Feb. 10, 2018. Through participation in airshows and regional events, the U.S. demonstrates its commitment to the security of the Indo-Pacific region, promotes interoperability, displays the flexible combat capabilities of the U.S. military, and creates lasting relationships with international audiences to strengthen the bonds that support partnership building throughout the Indo-Pacific region. (U.S. Air Force photo by Staff Sgt. David Owsianka)



- Continued from page 1 -

“Seeing all of the aircraft has been amazing, especially being able to see all of the aerial demonstrations,” said Weiling Tan, who is attending her first airshow here. “Allowing us to be able to come out, to view the aircraft and interact with the aircrew, is pretty important because it gives us a better understanding of each military’s mission.”

One of the performance that stayed grounded was the U.S. Air Force Band of the Pacific, which performed twice for the large airshow audience. Another popular stop for the airshow visitors was the U.S. Air Force F-22 Raptor and, for the first time

at the Singapore airshow, the U.S. Marine Corps F-35B Lightning II. In addition to the 5th generation fighters, the C-17 Globemaster III, E-3B Sentry, RQ-4 Global Hawk, B-52H Stratofortress, P-8 Poseidon, AH-6 Little Bird, F-16 Fighting Falcon, and F-18 Super Hornet provided static displays or aerial demonstrations during the event.

“Being part of the airshow is a good opportunity to see other airframes, interact with aircrews from other nations and strengthen our regional partnerships,” said Tech Sgt. Douglas Tadevich, 535th Airlift Squadron C-17 Globemaster III loadmaster. “People may think the military is just about fighting wars, but we are able to talk

about our aircraft’s [C-17] capabilities to provide humanitarian assistance around the world. This helped them understand the full range of what we can do.”

By interacting with international partners and allies, the U.S. improved on its already strong ties with Singapore.

“Maintaining regional stability is imperative for us to build on our strong relationships and promote a capacity for security in this region,” Faurot said. “This airshow enabled us to strengthen our partnership with Singapore, promote interoperability, all the while strengthening our relations within the local community.”



Aircraft sit on display during the Singapore International Airshow 2018, Feb. 10, 2018. Approximately 100,000 attended the airshow and had the opportunity to see multiple aircraft displays and aerial demonstrations by several countries. Through participation in airshows and regional events, the U.S. demonstrates its commitment to the security of the Indo-Pacific region, promotes interoperability, displays the flexible combat capabilities of the U.S. military, and creates lasting relationships with international audiences to strengthen the bonds that support partnership building throughout the Indo-Pacific region. (U.S. Air Force photo by Senior Airman Sadie Colbert)

C-17 crews help realign assets to Afghanistan

By Staff Sgt. Patrick Evenson, 379th Air Expeditionary Wing Public Affairs



Soldiers with Bravo Company, 244th Military Intelligence Battalion, Flight Detachment 16, board a C-17 Globemaster III, assigned to the 816th Expeditionary Airlift Squadron, in Iraq Jan. 25, 2018. The C-17 transported troops and equipment to forward operating locations throughout the U.S. Central Command area of responsibility in support of Operation Freedom's Sentinel and NATO Resolute Support missions. The C-17 is not only proficient in transporting troops and cargo, but can perform tactical airlift and airdrop missions and transport ambulatory patients during aeromedical evacuations. (U.S. Air National Guard photo by Staff Sgt. Patrick Evenson)

AL UDEID AIRBASE, Qatar (AFNS)
--- If Late in January 2018, at an altitude of nearly 30,000 feet, a 174-foot long aircraft cuts through the air with more than 40,000 pounds of thrust per engine. The equipment and personnel on board are needed to support ongoing operations in the U.S. Central Commands' area of responsibility.

The aircraft, a C-17 Globemaster III assigned to the 816th Expeditionary Airlift Squadron, located at Al Udeid Air Base, Qatar, has its belly full of shipping containers and pallets of equipment belonging to the Army's Bravo Company, 244th Military Intelligence Battalion. The load is moving from Iraq to Afghanistan in support of Operation Freedom's Sentinel and NATO Resolute Support missions.

The C-17 was operationally introduced to the Air Force in 1995, and these are the type of missions it was created to accomplish – rapid strategic delivery of troops and all types of cargo to forward operating

bases throughout all areas of operation.

In 2016, the squadron flew more than 2,400 missions, moving nearly 102,000 tons of cargo and almost 120,000 passengers, including 116 aeromedical patients.

The C-17 is not only proficient in the transportation of troops and cargo but can also perform tactical airlift and airdrop missions and transport ambulatory patients during aeromedical evacuations.

A couple dozen Airmen assigned to the 577th Expeditionary Prime Base Engineer Emergency Force Squadron lined the interior sides of the aircraft, with mere feet between them and the chained-down cargo.

They had been on the aircraft since it departed Al Udeid AB, some having just arrived in theater from the U.S. days prior. A handful of these forward-deploying Airmen disembarked the aircraft in Iraq, while the others stayed on board until reaching Bagram Airfield in Afghanistan.



Soldiers, Marines, Airmen and civilian contractors push equipment into the cargo bay of a C-17 Globemaster III, assigned to the 816th Expeditionary Airlift Squadron, at Al Asad Air Base, Iraq, Jan. 25, 2018. The C-17 transported troops and equipment to forward operating locations throughout the U.S. Central Command area of responsibility in support of Operation Freedom's Sentinel and NATO Resolute Support missions. The C-17 is not only proficient in transporting troops and cargo, but can perform tactical airlift and airdrop missions and transport ambulatory patients during aeromedical evacuations. (U.S. Air National Guard photo by Staff Sgt. Patrick Evenson)



Capt. Christian Picotte (left) and Maj. Lamb, C-17 Globemaster III pilots assigned to the 816th Expeditionary Airlift Squadron, transport troops and equipment between forward operating locations in the U.S. Central Command area of responsibility, Jan. 25, 2018. The C-17 is not only proficient in transport of troops and cargo but can perform tactical airlift and airdrop missions and transport ambulatory patients during aeromedical evacuations. (U.S. Air National Guard photo by Staff Sgt. Patrick Evenson)

The Prime BEEF Squadron regularly forward deploys to help plan, design and construct forward bases. Their mission for further development of Kandahar Airfield was to compensate for the influx of additional troops, assets and aircraft needed for the fight against the Taliban in the region.

A stark contrast to the 77 degrees when leaving Al Udeid AB, it was a single degree above freezing on the flight line of Bagram Airfield as the C-17 loadmasters and members of the 455th Expeditionary Aerial Port Squadron off-loaded the equipment.

After more transient Soldiers and Airmen boarded the aircraft the following day, it was back in the air, heading home to Al Udeid AB in the early hours.

The 816th EAS is an important component flying a vital airframe in the fight against terrorism throughout the area of operations supporting Operation Inherent Resolve and Operation Freedom's Sentinel. In the coming days, weeks, months and years it will continue providing a vital role wherever they fly.

Warrior Games make triumphant return to Colorado Springs



<above> Army veteran Staff Sgt. Ryan Murphy displays true strength hurling a shot put during the 2017 Warrior Games. The 2018 Warrior Games will be held from June 2 - 9 at the U.S. Air Force Academy in Colorado Springs. (DoD photo by EJ Hersom)

<below> Warrior Games Athlete and Navy veteran, Petty Officer 2nd Class A.J. Mohammad, competes in an archery competition during the 2017 Warrior Games. Archery is one of 11 sports featured during the 2018 Department of Defense Warrior Games at the Air Force Academy from June 2 - 9. (DoD photo by EJ Hersom)



COLORADO SPRINGS, Colo. (AFNS) -- Community and business leaders joined representatives of the military at the Air Force Academy last night to mark the 100-day countdown until athletes arrive in Colorado for the 2018 Department of Defense Warrior Games. Now in their ninth year, the Warrior Games are returning to Colorado Springs, the city that hosted the inaugural Games in 2010. The Warrior Games will be free and open to the public throughout the competitions from June 2 - 9, 2018.

The Warrior Games are a Paralympic-style competition between the U.S. Army, Marine Corps, Navy, Air Force and Special Operations Command. The United Kingdom Armed Forces, Australian Defence Force, and for the first time in Warrior Games history, the Canadian

Armed Forces, recently confirmed they will compete in the Warrior Games. This will be the sixth year the U.K. Armed Forces will compete in the Warrior Games and the second time for Australian Defence Force athletes.

Lieutenant General Gina Grosso, Deputy Chief of Staff for Manpower, Personnel and Services and senior Air Force officer hosting the evening's event announced the addition of three new adaptive sports to this year's line-up: indoor rowing, powerlifting and time trial cycling. The other eight events include archery, cycling, shooting, sitting volleyball, swimming, track and field, and wheelchair basketball.

"In my 30-plus years of service, nothing has moved me more than seeing the determination, resiliency and pure strength of our wounded, ill

and injured service members," said Lt Gen. Grosso. "In nearly 100 days, more than 200 warriors will arrive at Colorado Springs, Olympic City USA, to compete amongst each other for Gold, but more importantly, the comradery, healing, and recovery that comes with competitive sports."

"This is by far and away one of the most exciting sporting events I've ever witnessed," she added.

The 2018 Warrior Games, free and open to the public, are an opportunity to celebrate the accomplishments of wounded, injured and ill service members and veterans in overcoming adversity and thriving against the odds.

The Department of Defense Warrior Games were established in 2010 as a way to enhance the recovery and rehabilitation of wounded, ill and injured service

members and to expose them to adaptive sports. Approximately 250 wounded, ill and injured service members and veterans representing teams from the Army, Marine Corps, Navy, Air Force, and U.S. Special Operations Command will participate in the competition. They will go head-to-head in 11 sports including archery, cycling and time trial cycling, indoor rowing, sitting volleyball, shooting, swimming, powerlifting, wheelchair basketball, track and field, engaging in friendly competition and experiencing the healing power of sports.

Visit DoDWarriorGames.com to learn more about the Warrior Games, its athletes, volunteer opportunities and the schedule of events and follow the Warrior Games on Facebook at <https://www.facebook.com/WarriorGames/>.



Vice President Mike Pence lands at Osan

Vice President Mike Pence lands at Osan Air Base, Republic of Korea, Feb. 8, 2018. This is the Vice President's second visit to the Republic of Korea within the past 12 months. (U.S. Air Force photos by Staff Sgt. Franklin R. Ramos/Released)





Wolf Pack superior performers recognized by SecAF, CSAF



Secretary of the Air Force Heather Wilson and Air Force Chief of Staff Gen. David L. Goldfein pose for a group photo with Airmen and senior leadership from the 8th Fighter Wing at Osan Air Base, Republic of Korea, January 29, 2018. Members of the Wolf Pack were recognized as superior performers by Wilson and Goldfein and briefed the senior leaders on the specific mission sets in their respective fields. (U.S. Air Force photo by Staff Sgt. Franklin R. Ramos)





A U.S. Air Force F-35A Lightning II assigned to the 34th Fighter Squadron, Hill Air Force Base, Utah, sits on the flightline at Yokota Air Base, Japan, Feb. 9, 2018, in support of the vice president's visit to Japan. The F-35A is deployed under the U.S. Pacific Command's Theater Security Package program, which has been in operation since 2004. This long-planned deployment demonstrates the continuing U.S. commitment to stability and security in the region. (U.S. Air Force photo by Yasuo Osakabe)

An 83rd Expeditionary Rescue Squadron Airman observes a U.S. Army CH-47 Chinook at an undisclosed location in Afghanistan. The 83rd ERQS is the Air Force Central Command's first dedicated joint personnel recovery team, utilizing Air Force Guardian Angel teams and Army CH-47 Chinook crews. (U.S. Air Force courtesy photo)



Capt. Thomas Beltz, C-17 Globemaster III pilot with the 514th Air Mobility Wing, closes in to refuel with a KC-10 Extender over the Atlantic Ocean, Feb. 10, 2018. The 514th AMW is an Air Force Reserve Command unit located at Joint Base McGuire-Dix-Lakehurst. (U.S. Air Force photo by Master Sgt. Mark C. Olsen)



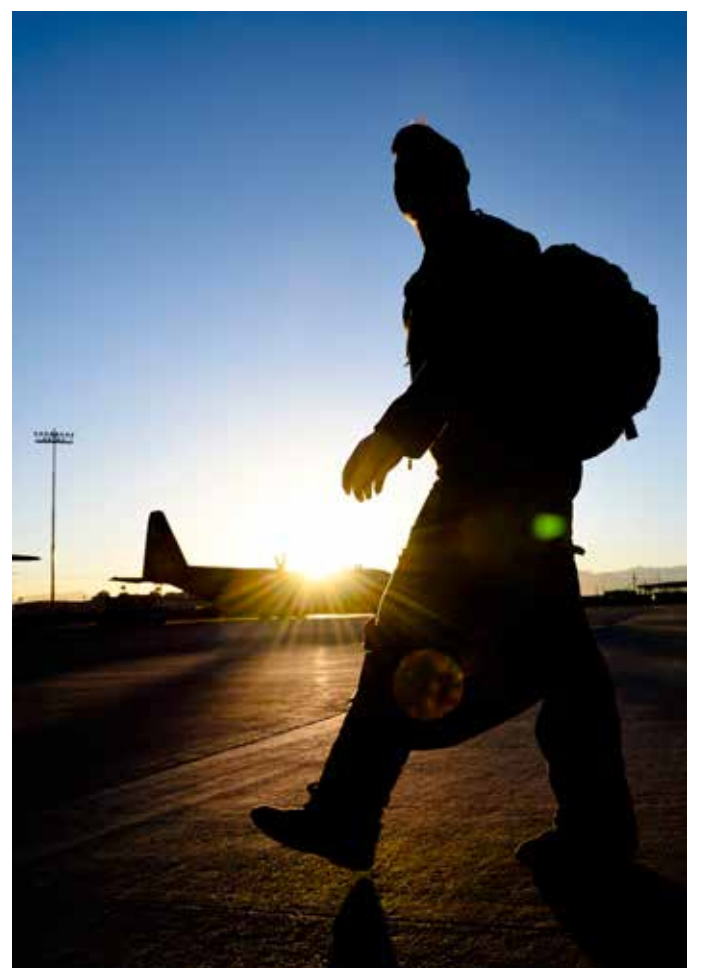


A pararescueman of the New York Air National Guard 106th Rescue Wing, pilots his canopy while descending, after jumping out of an HC-130P/N King aircraft over Francis S. Gabreski Air National Guard Base, N.Y., Dec. 19, 2017. This Airman is participating in a military free-fall operation being conducted for currency, proficiency and upgrade training purposes. (U.S. Air National Guard photo by Airman Sean Madden)

Senior Airman Dan Daley, a boom operator assigned to Fairchild Air Force Base, Wash., walks on the flightline during Red Flag 18-1, Feb. 7, 2018, at Nellis AFB, Nev. Red Flag gives Airmen an opportunity to experience realistic combat scenarios that prepares them for real-world conflicts. (U.S. Air Force photo by Airman 1st Class Andrew D. Sarver)



An Airman from the 824th Base Defense Squadron, fires a Mark 19 40mm grenade machine gun, Jan. 26, 2018, at Camp Blanding Joint Training Center, Fla. The Airmen traveled to Blanding to participate in Weapons Week where they qualified on heavy weapons ranging from the M249 light machine gun to the M18 Claymore mine. (U.S. Air Force photo by Senior Airman Janiqua P. Robinson)



Senior Airman Haley Wolochowicz inspects a weapon for loading during a Weapons Load Crew Competition at Spangdahlem Air Base, Germany, Feb. 9, 2018. The competition featured two teams competing to be the wing's best load crew and the winners will be announced at their annual Maintenance Professional of the Year banquet. (U.S. Air Force photo by Tech. Sgt. Staci Kasischke)





An A-10C Thunderbolt II pilot from the 163rd Fighter Squadron, and crew chiefs from the 122nd Fighter Wing prepare for takeoff during Operation Guardian Blitz, Jan. 23, 2018, at MacDill Air Force Base, Fla. Guardian Blitz is a two-week joint exercise to improve service interoperability for combat search and rescue and close air support. (U.S. Air National Guard photo by Staff Sgt. William Hopper)

122nd FW takes joint training to new heights

By Staff Sgt. William Hopper, 122nd Fighter Wing

FORT WAYNE, Ind. (AFNS) ---- The 122nd Fighter Wing recently completed Operation Guardian Blitz during a two-week joint training exercise at MacDill Air Force Base, Florida, which included air-to-air refueling, training alongside Navy rotary assets and joint terminal attack controllers.

The team of over 200 Airmen and 10 A-10C Thunderbolt II aircraft were able to take advantage of the favorable weather conditions and ability to work with other units at MacDill AFB, and were afforded opportunities to practice close air support, forward air control and combat search and rescue.

"My favorite part of training here at MacDill (AFB) has been the combined force training operations that we don't have an opportunity to do at home," said Lt. Col. Joshua Waggoner, 122nd Fighter Wing Operation Guardian Blitz detachment commander. "We are here training with our A-10 aircraft, two Navy MH-60S helicopters and refueling tankers overhead. During missions we are on station for over two hours integrating with all these assets while also coordinating

with JTACs on the ground. The opportunity to work with these other agencies to accomplish missions has been invaluable."

Operation Guardian Blitz was unique in allowing the different branches and squadrons to integrate with a synergy not typically found during an average joint training exercise.

"The ability to have helicopters out of Virginia, tankers out of Niagara, and A-10s out of Fort Wayne all operating in the same sortie and off the same ramp is something you usually don't get elsewhere," said Waggoner. "Even at Snowbird or other trips in the past, we've never been collocated with all our other assets. Here at MacDill (AFB) for Guardian Blitz, we're all located in the same place and able to interact face-to-face on a daily basis. It's a luxury you just don't get anywhere else."

"We were able to match our objectives with the other unit's objectives to make it all happen at the same time," said Waggoner. "This is by far the most aggressive training schedule we have set, and it never would have been able

to happen at home this time of year due to weather and other circumstances."

One of the many training opportunities made possible by Guardian Blitz was the refueling mission completed by the 914th Air Refueling Wing out of Niagara Falls, New York.

"The 914th ARW from Niagara is in the process of transitioning from the C-130 (Hercules cargo planes) to KC-135 (Stratotanker refueling) tankers," said Waggoner. "They were excited to be a part of Guardian Blitz because it gave them the opportunity to get in plenty of refueling sorties with our A-10s while getting training from MacDill (AFB) instructors. They have completed 41 air-to-air refueling sorties in the last two weeks, which is about what they usually fly in six months."

"We just made the transition to the KC-135 from the C-130 about six months ago," said Lt. Col. Chris Pfeil, 914th Air Refueling Wing Airman. "It's a little different than what we are used to."

"Once we get a little more proficient with the KC-135 our unit

will become operational," said Pfeil. "More and more, air-to-air refueling is becoming in-demand to carry on the mission of the Air Force."

Also joining the training were two MH-60S Seahawk helicopters operated by the Helicopter Sea Combat Squadron 22, from Naval Station Norfolk, Virginia. During missions, the HSC-22 provided recovery assets for the search and rescue training and were also utilized for additional close air support to strike targets on the ground.

"The MH-60S Seahawk is primarily used for search and rescue operations and logistics," said Naval Aircrewman (Helicopter) 2nd Class Nicholas Glass, HSC-22 door gunner. "I am looking forward to working with other branches of the military during Guardian Blitz to get a better idea of how we can work together to improve mission success."

"We train to the point that we can execute our mission in any environment," said Waggoner. "The time we put in training at places like MacDill (AFB) and back home in Fort Wayne really pay off when it comes time to execute the mission."

CHIEF'S CORNER

Building Better Airmen



**By CMSgt Roy Hensley
51st Logistics
Readiness Squadron**

We have a solemn daily duty to Build Better military and civilian Airmen for our Air Force, as well as certify them as mission ready within just 30 days of hitting the Korean Peninsula!

As supervisors and leaders, one of our biggest challenge is mentoring our people. We have a Professional Obligation to train our Airmen as competent technicians in their AFSC, as well as a Moral Imperative to develop our Airmen as military professionals. Without a doubt, feedback (formal and informal) is our most critical tool in tackling this challenge as it provides us with a broad mechanism that, when used properly, results in substantial gains on many levels. Unfortunately, we do not appropriately utilize this mechanism as often as required. Additionally, we as supervisors often lack appropriate training and mentorship ourselves outside of our small PME snapshot. Moreover, as people, we often let personality, ego, and emotion cloud our judgment.

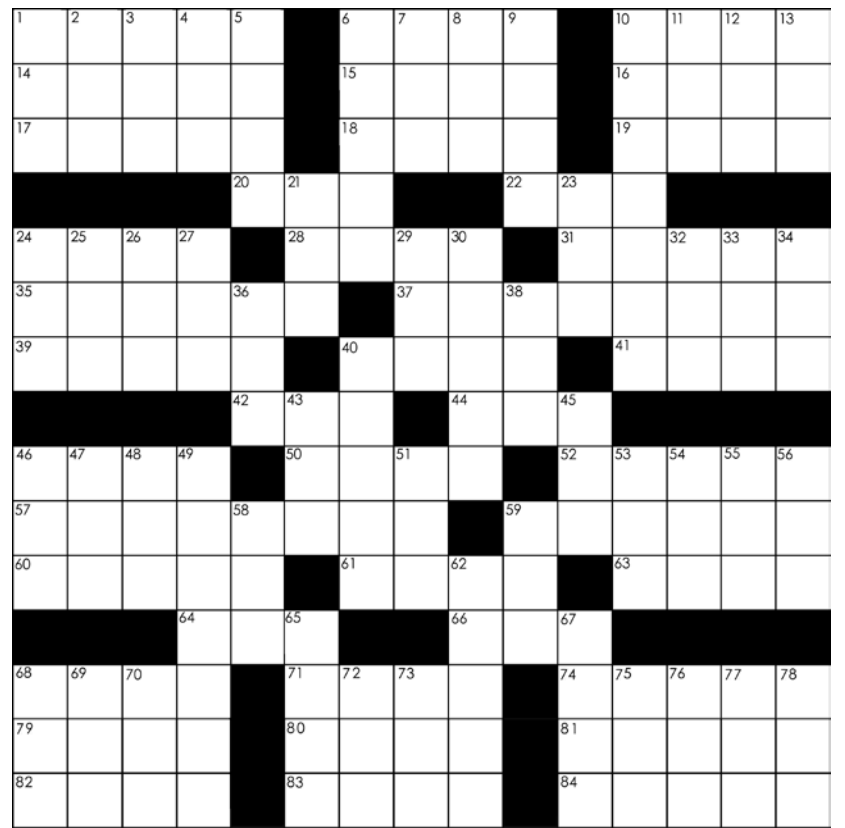
There is no one silver bullet to solve our feedback dilemma. By dilemma, I'm referring to the constant struggle to both "seek" and "provide" feedback appropriately. Supervisors and subordinates alike often miss the point of feedback. Feedback is far more than simply sitting down with a subordinate and running through some check boxes on a form. Feedback is about establishing a foundation of conduct and performance based on objective and measurable standards, identifying minimum expectations, and laying out individual and team goals. Moreover, follow-on feedback is an opportunity to readdress those same points, to review the member's performance, and to provide an honest opportunity to help the member correct course if/when

necessary in a timely manner. Let me foot-stomp that to Build Better Airmen, a conscious "investment" from both the supervisor and subordinate and it must be a symbiotic relationship because feedback is not just a supervisor responsibility. The supervisor/subordinate relationship is the most important relationship in our Air Force and requires a relationship built on trust. Often with feedbacks, we do not make time for the "honest" and "hard to have" conversations with our Airmen because we are concerned with hurting each other's feelings. Instead, we focus on hitting the feedback target dates versus truly staying connected in order to openly and honestly communicate throughout the entire feedback process.

Building Better Airmen is something WE SHOULD BE EXTREMELY PASSIONATE ABOUT! I believe in planting seeds at the beginning of Airmen careers. Airmen should have an expectation to want feedback, as well as be receptive to the feedback given to them. If they feel they are not getting proper feedbacks, then they need to up-channel their concerns--without fear of reprisal. If we are to leave the Air Force better than we found it, we must absolutely do our best to grow our replacements and Build Better Airmen. I honestly believe the vast majority of our supervisors/subordinates WANT to better themselves--they simply lack proper guidance and direction; something we cannot fall short on when mission effectiveness and our "Fight Tonight" readiness posture are on the line!

The Crossword

By Jon Dunbar



ACROSS

- 1 Beatles' Ringo
- 6 Green bottle alcohol
- 10 Slipped
- 14 Korean IM app
- 15 Thailand neighbor
- 16 Cass rival
- 17 Adjust
- 18 Component
- 19 Pacific Victors unit
- 20 UN Command successor
- 22 Life-saving technique
- 24 Korean tang or jjigae
- 28 Type of gas or duct
- 31 Online message
- 35 Korean soldier with US military
- 37 Military housing
- 39 From Dublin
- 40 Military cafeteria
- 41 More important than want

- 42 Color
- 44 CIA forerunner
- 46 Opposite of is
- 50 Shock
- 52 Land of the Morning Calm
- 57 Officer's housing
- 59 Justice League member
- 60 Red-brown photo color
- 61 Honolulu island
- 63 Phony
- 64 Mattis' office
- 66 Goes with special or psy
- 68 Base entry point
- 71 Chemical weapons disarmer
- 74 Data protection, in military
- 79 Former USFK TV channel
- 80 Actress Cameron
- 81 Training exercise location
- 82 Booger
- 83 Orc cousin
- 84 Smaller than molecules

DOWN

- 1 No Doubt's genre
- 2 Small amount
- 3 Alias
- 4 Hip-hop
- 5 Campus force
- 6 Pizza portion
- 7 Cereal grain
- 8 GI ____
- 9 Amphibious ops branch
- 10 General William Tecumseh
- 11 Actress Lucy
- 12 "____ Raining Men"
- 13 Narcotics authority
- 21 Bilateral economic deal
- 23 Beats ____ minute
- 24 Snowboard alternative
- 25 Paddle
- 26 Bladder infection
- 27 Injury discharge
- 29 Goes with Lincoln or Shinzo
- 30 North Korean special economic zone

- 32 Excellent fighter pilot
- 33 Eisenhower's nickname
- 34 Hippie drug
- 36 Library warning
- 38 Website feed
- 40 Subway
- 43 No ____ for a Name
- 45 Air Force domain
- 46 Smartness measures
- 47 "A Boy Named ____"
- 48 Short sleep
- 49 Missile or polearm
- 51 UNSC permanent member
- 53 Alternative to Casses
- 54 Former President Moo-hyun
- 55 End of an ____
- 56 Yearly corporate get-together
- 58 ____ Te Ching
- 59 Goes with World or noodle
- 62 Closed Western Corridor camp
- 65 Extinct bird
- 67 KORUS agreement
- 68 Fuel
- 69 A-farts TV station

Answers (1-19-2018)	25 EEL	64 TIKI	7 ACME	39 KEEPSAKES
	27 EYED	65 SWAG	8 PEASE	41 TASK
	29 RIDGES	66 ORGAN	9 CHARLIE	44 ELEMENT
ACROSS	34 SEVEN	67 OPEN	10 RAGE	45 VCR
-----	38 MAKGEOLLI	68 LIRA	11 IHOP	48 IODINE
1 SCUM	40 AVID	69 SPORT	12 SORE	50 GATOR
5 SNAP	41 TUNES	70 RASE	13 SEAL	52 TESLA
9 CRISS	42 MUST	71 ANTS	24 ZEN	53 IRWIN
14 PANE	43 VENGEANCE		26 ERGS	54 EMART
15 LACE	45 VEGAS	DOWN	28 DANCE	55 SAGAS
16 HAHOE	46 ENGELS	-----	30 DOME	56 AMOS
17 ARCS	47 EPIC	1 SPASM	31 GLUG	57 TARP
18 EMMA	49 EKG	2 CARER	32 ELSA	58 ERGO
19 AGORA	51 SORTIES	3 UNCAP	33 SITS	59 AGAR
20 SEAS	56 ATEAM	4 MESSI	34 SAVE	61 RIPA
21 ADES	60 ARAD	5 SLEAZY	35 EVEN	
22 REPEL	62 ERMA	6	36 VING	
23 MRPIZZA	63 MARGE	NAMDAEMUN	37 EDGE	

Kunsan

Kunsan Photo Club

Interested in sharing your photography experience with others and exploring Korea along the way? Have a camera, but want to learn how to use it more completely? Then join the Kunsan Photo Club as they delve into the finer qualities of photography where the key concept is: "It's not the camera that makes a great photo, but the photographer." If interested in joining, the group can be found on Facebook, just search for "Kunsan Photo Club."

Wolf Pack Lodge

Lodging Space A Policy
Need a break? Got family visiting and no room to house them? You can book lodging rooms on a space available basis up to 120 days in advance for a maximum of 30 days depending on availability. You can also book reservations for the holiday season (November and December) up to 30 days in advance for a maximum of 15 days. (Depending on availability) Book now for all of those relatives coming for the holiday!

Reservations – Front Desk-DSN 782-1844 or Commercial (82)63-470-1844 FAX: DSN 315-782-0633 Commercial (82)63-470-0633

Sunday Sonlight dinner

Every Sunday, volunteers from a specific unit cook dinner for their fellow Wolf Pack members at the Sonlight Inn. The dinner begins at 6 p.m. following grace led by a chaplain. Meals range from "breakfast for dinner" to "Italian cooking" to

"Southern style." For more information or to volunteer, contact the chapel at 782-HOPE.

Sponsor training
Learn creative ways to assist newcomers reporting to Kunsan AB. Registration required. Class is held at the Airman and Family Readiness Center. Call 782-5644 for more information, dates or to sign up.

ROKAF English Class

Team 5/6 is looking for volunteers to support the ROKAF English class every Saturday, at the Sonlight Inn. You will be talking to ROKAF Airmen (enlisted) for approximately one hour. This event is open to all ranks! Civilian attire is preferred, however, UOD is allowed.

For more information, contact Staff Sgt. Charles Nelson.

Ping Pong tournament

Free to all. Prizes for first and second places. Prizes include Wolf Pack Won. To sign up, dates or for more information, call the CAC at 782-5213 or 4679.

Osan

Airman and Family Readiness Center programs

***Bundles for Babies** - A workshop for expectant parents who want to learn more about parenting and support programs here at Osan. The class also offers you a finance piece that focuses on budgeting for your new baby from conception to college years and a chance to meet other new parents. Additionally, you'll receive a free "bundle" from the Air Force Aid Society.

***Separation & Retirement Benefits** - This is an optional workshop where separating and retiring members can learn about their benefits- includes briefings by MFLC, TMO, CPO, Finance, Tricare and SBP.

***Spouse Orientation** - This is a great opportunity for spouses to learn about the 51st Fighter Wing Mission, Non-combatant Evacuation Operation (NEO) process, and receive a protective (gas) mask demonstration. Spouses will also have an opportunity to meet key base representatives and learn about Korean Culture. As a bonus, a community information fair will end the day.

Anthem Singers
Sopranos, altos, tenors and bass vocalists are needed to sing the US and ROK National Anthems at various events on base. Practice is held at 5 p.m. every Tuesday at the Chapel Annex. For more information, send an e-mail to: nicholas.smith.21@us.af.mil or ric.rebulanan.1@us.af.mil

***Volunteers' Training** - The goal is to ensure all our volunteers are registered and they receive all tools and information to keep them informed of volunteer opportunities. For more information, call [784-0119](tel:784-0119).

Volunteers for USFK Civilian Employees Appreciation Week
Each year, the USFK Commander takes time to recognize civilian employees for their accomplishments, contributions, and dedication to the USFK mission. This year, General Brooks has designated 11-15 September as USFK Civilian Employees Appreciation Week. We are currently seeking volunteers (US/LN Civilians, Active Duty Military, and Spouses/Family members) to assist in the planning and execution of this wonderful event. If you would like to volunteer to serve as a committee member, please contact Ms. Kim, Min Kyo, min_kyo.kim.kr@us.af.mil or Ms. Precious Clermont, precious.clermont@us.af.mil at [784-4434/8177](tel:784-44348177).

Open Continuous Vacancy Announcement for Pacific West Educational Aide positions
Applicants who previously applied under the Open Continuous Vacancies will need to update their application and required documents under the new announcement numbers if they wish to be considered for the SY 17/18
PLEASE re-iterate to these interested applicants to have a complete resume attached. This includes but not limited to total employment period, i.e., starting and ending dates (month and year) and number of hours per week for each work experience, paid and unpaid. A description of duties and accomplishments for each experience, including volunteer. If a current or former Federal employee, highest Federal civilian grade held, job series, and dates of employment.
Here is the direct link to the 2017 school support positions.
Job Title: Educational Aide (GS-1702-04)
Job Announcement Number: 17-042-KO-LG-1981388
<https://www.usajobs.gov/GetJob/ViewDetails/473464800>

Emergency Services	911	Commander's Hotline	782-5224
Off Base/Cell Emergency	063-470-0911	After-hours medical advice	782-4333
Crime Stop: (to report a crime)	782-5444	IG Complaints FWA Reporting:	782-4850 (duty hours) 782-4942 (anytime)
Base Locator: (after duty hours)	782-4743	Chaplain (After duty hours)	782-6000
Law Enforcement desk	782-4944	Sexual Assault Response Coordinator (SARC)	782-7272
Emergency Leave / Red Cross		782-4601 (on base) 1-800-733-2761 (anytime)	

Emergency Services (Fire, Medical, Security Police)	911	Commander's Hotline	784-4811
Off Base/Cell Emergency	031-661-9111	Crime Stop: (to report a crime)	784-5757
Emergency Room:	784-2500	IG Complaints FWA Reporting:	784-1144
Base Locator: (after duty hours)	784-4597	Emergency Leave	784-7000
Force Protection Information Hotline:	115	Sexual Assault Response Coordinator (SARC)	784-7272
Chaplain (After duty hours)	784-7000	Security Forces Control Center	784-5515

CHAPEL SCHEDULE

KUNSAN AIR BASE

Protestant Services
Gospel Service
 Sunday, 11:30 a.m.
 Main Chapel, Bldg. 501
Contemporary Service
 Sunday 5 p.m.
 Main Chapel, Bldg. 501

Catholic Services
Sunday Catholic Mass
 Sunday, 9:45 a.m.
 Main Chapel, Bldg. 501
Daily Mass and Reconciliation
 Please call the Chapel

Other Worship Opportunities
LDS Service
 Sunday, 11:00 a.m.
 SonLight Inn, Bldg. 510

Point of Contact:
 Kunsan Chapel, 782-HOPE

Visit us on SharePoint:
<https://kunsan.eis.pacaf.af.mil/8FW/HC>

OSAN AIR BASE

Protestant Services
Gospel Service
 Sunday, 12:30 p.m.
 Chapel Sanctuary
Community Service
 Sunday, 10:30 a.m.,
 Chapel Sanctuary

Protestant Ministries
Awana Children's Ministry
 Wednesday, 5 p.m., Grades 7-12
 Wednesday, 6 p.m., Pre-K to 6th Grade
 Chapel
Osan Middle School
Men of the Chapel
 Wednesday, 7 p.m., Chapel Annex
Singles & Unaccompanied
 Thursday, 7 p.m., Mustang Center
Friday, 7 p.m., Hospitality House
Saturday, 6 p.m., Hospitality House
Women of the Chapel
 Monday, 6:30 p.m./ Tuesday, 9 a.m.
 Chapel Annex
Youth of the Chapel
 Monday, 6 p.m., Chapel Annex

Catholic Mass
Daily Mass
 Tuesday – Thursday, 11:30 a.m., Chapel
Reconciliation
 Saturday, 4 p.m (or by appointment), Chapel
Vigil Mass
 Saturday, 5 p.m., Chapel
Sunday Mass
 Sunday, 8:30 a.m., Chapel

Catholic Ministries
Catholic RE
 Sunday, 10 a.m., Chapel Annex
Korean Prayer Group
 Tuesday, 9:30 a.m.
Blessed Sacrament
Bible Study
 Tuesday, 6 p.m., Chapel Annex Rm 4
Women of the Chapel
 Meet Monthly, Please call 784-5000

Other Faith Groups
Earth-Based (Contact the Chapel)
Jewish (Contact the Chapel)
Muslim (Contact the Chapel)
Buddhist (Contact the Chapel)
LDS Sunday, 1 p.m., Contact the Chapel

Point of Contact:
 Osan Chapel, 784-5000
Visit us on SharePoint:
<https://osan.eim.pacaf.af.mil/51FW/51FW-HC/default.aspx>
Visit us on Facebook (OSAN AB CHAPEL)
<https://www.facebook.com/OsanABChapel>

USAG-YONGSAN

Protestant Services
Traditional Service
 Sunday, 9:30 a.m.
 Memorial Chapel, Bldg 1597
Sunday, 9:30 a.m.
 Brian Allgood Hospital Chapel
Contemporary Service
 Sunday, 9 a.m.
 South Post Chapel, Bldg 3702
 Sunday, 10:30 a.m.
 K-16 Chapel
Nondenominational Service
 Sunday, 11 a.m.
 South Post Chapel, Bldg 3702
Gospel Service
 Sunday, 1 p.m.
 South Post Chapel, Bldg 3702
Pentecostal
 Sunday, 1:30 p.m.
 Memorial Chapel, Bldg 1597
Latter Day Saints (LDS)
 Sunday, 4 p.m.
 South Post Chapel, Bldg 3702
Seventh-Day Adventist
 Saturday, 9:30 a.m.
 Brian Allgood Hospital Chapel
KATUSA
 Tuesday, 6:30 p.m.
 Memorial Chapel, Bldg 1597

Catholic Mass
 Sunday, 8 a.m.
 Memorial Chapel, Bldg 1597
 Sunday, 11:30 a.m.
 Memorial Chapel, Bldg 1597
 Saturday, 5 p.m.
 Memorial Chapel, Bldg 1597
 1st Saturday, 9 a.m.
 Memorial Chapel, Bldg 1597
 M/W/T/F, 11:45 a.m.
 Memorial Chapel, Bldg 1597
 Tuesday, 11:45 p.m.
 Brian Allgood Hospital Chapel

General Service
Episcopal Service
 Sunday, 11 a.m.
 Brian Allgood Hospital Chapel

Jewish
 Friday, 7 p.m.
 South Post Chapel, Bldg 3702



Point of Contact:
 USAG Yongsan Religious Support Office, 738-3011
Visit us on SharePoint:
<http://www.army.mil/yongsan>

SPIRITUAL CHARGE

Destroy or Create?

“**B**low up stuff and kill people!” is often used to describe the mission of the Air Force in crude terms. Of course, reality is much more complicated, involving legitimate government action, chain of command, LOAC rules, and more. Air doctrine instructs exploiting a critical vulnerability in order to destroy an enemy’s center of gravity. While destroying the enemy is part of AF combat capability, self-destruction or harm of your team is not.

A few years ago I had a day where I felt crushed after people shared with me some really bad stuff, and it made me upset. I sensed a vulnerability to respond with destructive behaviors. I knew that I was in a bad place. That evening, I was supposed to meet a couple of friends for dinner. I could not tell anyone about what I heard in these counselings. Protecting the complete confidentiality of the privileged communication that people have with their chaplain or chaplain assistant was a heavy weight in this situation. I contacted my friends and told them that I would be late, that I had a rough day and needed to go for a run. The bad weather led me to the fitness center tread mill where I pounded mile after mile. The burden was and will always be with me, but most importantly I felt much better. I knew that I could handle it with a positive response instead of reacting negatively. I was ready to meet my friends and enjoy a delicious dinner and fellowship with them.

Looking back at that day – as I have done so much – I realized an important lesson. When a heavy burden or great stress hits us, we can feel



Ch, Capt Brian Klingele
8th Fighter Wing

the need to do something with the emotions that come with it. What we choose to do can be very destructive or something constructive. These destructive activities trick us because we think that they will take our minds off of the issue. What happens instead is that we do not find help

and we even end up harming ourselves through an addictive or dangerous action. Combining mind-altering substances and driving or weapons is a common example. This person doesn’t care in the moment. “Man, I need a drink,” is a typical start to this self-destructive behavior.

Unlike the deceptions of destructive behavior, a healthy response is to seek creative activities, exercise, or relationships. Enjoyable hobbies, like cooking, gardening, working on cars, or painting, bring delight to the participant and allow her to relax. Some constructive activities have a strong creative element. Creating something good or beautiful or pleasing counteracts the heavy weight of stress. The creator grows in confidence, increases hope, and enjoys the satisfaction of completing something challenging. Finally, spending quality time with your loved ones whether children, spouse, friends, or parents helps us reaffirm what is most important and can even provide healing to the overstressed.

What do you do when you are stressed out, overworked, tired, or feel a heavy burden on you? Are you aware of the healthy activities that allow you to relax and bring you joy? Who are the people that you love to be around and also build you up? Someone who always cares and is here to listen to you is your chapel team, or the on-call duty chaplain after hours. I encourage you to have constructive activities and healthy relationships ready when you feel that you are facing too much. Save the destruction for the enemy, not for yourself or your teammate.

A B-52H Stratofortress bomber, assigned to the 20th Expeditionary Bomb Squadron at Andersen Air Force Base, Guam, flies over the Singapore International Airshow at the Singapore Changi Airport and the Changi Exhibition Centre, Singapore, Feb. 10, 2018. Through participation in airshows and regional events, the U.S. demonstrates its commitment to the security of the Indo-Pacific region, promotes interoperability, displays the flexible combat capabilities of the U.S. military, and creates lasting relationships with international audiences to strengthen the bonds that support partnership building throughout the Indo-Pacific region. (U.S. Air Force photo by Tech. Sgt. Eric Donner)



B-52 performs flyover during Singapore International Air Show

By Headquarters Pacific Air Forces Public Affairs

CHANGI INTERNATIONAL AIRPORT, Singapore -- The U.S. Air Force B-52 Stratofortress bomber conducted a flyover during the 2018 Singapore International Air Show at Changi Exhibition Centre here Feb. 10.

The flyover was part of the U.S. presence at the air show, the largest defense exhibition and international tradeshow in the Pacific, Feb. 6-11. This year's exhibition marks the 6th iteration since

its inception and also highlights the Republic of Singapore Air Force's (RSAF) 50th anniversary.

"The U.S. is honored to participate in the Singapore International Air Show and celebrate alongside the RSAF as they observe 50 years of dedicated service to their nation," said Gen. Terrence J. O'Shaughnessy, Pacific Air Forces commander. "Our commitment to Singapore and the entire region is demonstrated through the

participation of so many U.S. military members, airframes and equipment, as well as the presence of our U.S. military leadership."

Approximately 140 U.S. personnel and a variety of U.S. military and international aircraft are participating through static display and aerial demonstrations. Appearing for the first time at the airshow, the U.S. Marine Corps F-35B Lighting II, along with the F-22 Raptor, who made its debut in 2016. In addition to the 5th generation fighters, the C-17 Globemaster III, E-3B Sentry, KC-135 Stratotanker, RQ-4 Global Hawk, B-52H Stratofortress, P-8 Poseidon, AH-6 Little Bird, F-16 Fighting Falcon, and F-18 Super Hornet.

In addition to O'Shaughnessy, Air Force Chief of Staff Gen. David Goldfein and Heidi Grant, Deputy Under Secretary of the Air Force, International Affairs, were among the U.S. Air Force delegation present to open the week's festivities, and meet with regional counterparts and Airmen. The air show also hosts more than 50 nations and foreign delegations including 1,000 participating defense contractors.

"Our relationship with Singapore and the many nations present this week represents a unique strength where continued cooperation and integration at events like these will ensure continued peace and prosperity in the Indo-Pacific," O'Shaughnessy said.

Supporting the Singapore International Air Show provides the U.S. with an opportunity to promote interoperability, display a wide array of military capabilities, and create lasting relationships with international audiences

Two bombers took off from Andersen Air Force Base, Guam, as part of the U.S. Pacific Command's continuous bomber presence missions, which have been routinely employed since March 2004 and are in accordance with international law.



Air Force demonstrating hydrogen as alternate fuel source

By J. Brian Garmon

TYNDALL AIR FORCE BASE, Fla. (AFNS) -- The U.S. Air Force is demonstrating hydrogen as an alternate fuel source at Joint Base Pearl Harbor-Hickam, Hawaii.

In a recent visit to JB Pearl Harbor-Hickam, members of the Air Force Civil Engineer Center's Energy and Operations directorates were given a tour of the installation's hydrogen production facility and shown several of the vehicles that use this alternative fuel. This project, with assets housed at the 647th Logistics Readiness Squadron and with the Hawaii Air National Guard, is part of a cooperative agreement between the Air

This hydrogen project has been in place for over a decade, originally installed in 2006 as a mobile hydrogen production, compression, storage, and dispensing unit, and was upgraded in 2010. Both systems were set up to support all DoD hydrogen vehicle testing, to include both hydrogen internal combustion and fuel cell vehicles. Some of the hydrogen vehicles currently supported by this station include a 25 passenger crew bus, a MJ-1E fighter weapons loader and a U-30 heavy aircraft tug.

"HCATT's partnership with AFRL, AFCEC, NGB, HIANG, and the invaluable support from Hawaii Senator Brian Schatz, are key to the program's success in demonstrating the

production and storage that may enhance energy resilience for critical Air Force missions," said Mike Rits, AFCEC subject matter expert on renewable energy and energy resilience. "Efforts to test and expand that portfolio, such as this one, help the Air Force make the most lifecycle cost-effective decisions toward that end."

In a hydrogen electrolysis unit, water is separated into hydrogen and oxygen using electricity. This hydrogen is collected, compressed and stored for fuel while the oxygen is either released into the air or can be collected and used in other applications. In many cases, excess electricity created during peak production by other renewable sources, such as wind and



This 25 passenger crew bus is one of the vehicles powered by a hydrogen fuel cell used at Joint Base Pearl Harbor-Hickam in a demonstration of hydrogen as an alternative fuel source. (U.S. Air Force photo by J. Brian Garmon)

Force Research Laboratory and the Hawaii Center for Advanced Transportation Technologies. This state organization supports the Hawaii ANG, the National Guard Bureau, and the U.S. Air Force. It is tasked to demonstrate hydrogen technology and its potential applications within the Defense Department.

In areas like Hawaii, where renewable energy resources account for a large portion of the grid's total electrical capacity, intermittent renewable energy resources, such as wind and solar, become less desirable. Continual sources of renewable energy, such as hydrogen, become an important focus in the shift towards cleaner, cost-effective energy. This is due to the need for a consistent supply of power to meet electrical load demands.

versatility of hydrogen fuel cell vehicles within DoD," said Stan Osserman, HCATT director. "These proofs of concept not only provide alternate vehicle choices for the Air Force's flight line of the future, but also will help the state of Hawaii in its effort to increase hydrogen usage across the islands."

This project not only supports the Air Force's goal of increasing its renewable energy usage, but also aligns with the Hawaii Clean Energy Initiative, launched originally in 2008. HCEI seeks to achieve the nation's first 100 percent renewable portfolio standards by 2045 and to reduce petroleum use in Hawaii's transportation sector.

"AFCEC is extremely interested in developments in clean and efficient energy

solar, can be used in this process to reduce cost and provide nearly emission-free fuel for the fuel cells.

The collected hydrogen can then be used in hydrogen fuel cells to create electricity as needed. The hydrogen enters the fuel cell, where it has its electrons stripped by a chemical reaction. These electrons then travel through the circuit in the form of electricity and finally return to the cell, where they combine with oxygen entering from the air and the hydrogen ions created from the initial reaction. The only byproduct of this reaction is water, which then drains from the cell.

"Hydrogen fuel cell use is growing exponentially worldwide in the private sector," added Osserman. "The DoD could benefit, on many different levels, by embracing the adaptability and scalability of hydrogen and fuel cell systems."



Medal of Honor recipient, former POW laid to rest

By Staff Sgt. Alyssa C. Gibson
Secretary of the Air Force Public Affairs

Air Force Vice Chief of Staff Gen. Stephen Wilson presents the American flag to the next of kin during the full honors funeral ceremony for retired Col. Leo Thorsness at Arlington National Cemetery, Arlington, Va., Feb. 14, 2018. Thorsness received the Medal of Honor for his heroic actions during the Vietnam War. (U.S. Air Force photo by Staff Sgt. Rusty Frank)

WASHINGTON (AFNS) -- As a Medal of Honor recipient and former Prisoner of War, retired Col. Leo Thorsness's life mantra after returning home from the Vietnam War was "Faith, Family, Friends and Fun."

With the support of Air Force senior leaders, his wife, Gaylee, and daughter, Dawn, kept those words close as they said their final goodbye to Thorsness during his interment at Arlington National Cemetery Feb. 14, 2018.

Thorsness was awarded the Medal of Honor for his actions on April 19, 1967. That day, Thorsness, an F-105 Thunderchief pilot, was on a surface-to-air missile suppression mission over North Vietnam.

According to his citation, the pilot and his wingman attacked and silenced a SAM site with air-to-ground missiles, then destroyed a second SAM site with bombs. In the attack on the second missile site, Thorsness' wingman was shot down and the two crewmembers abandoned their aircraft.

Thorsness kept the crewmembers in sight while simultaneously destroying an MIG-17 aircraft. Despite being dangerously low on fuel, he went on to deter four more MIGs from the scene while allowing another friendly aircraft to refuel from a nearby tanker, preventing further loss of life and aircraft.

"During combat, when faced with life-defying

decisions, he thought, 'If not me, who? And if not now, when?' This is what he was thinking during his F-105 Wild Weasel missions, and explains his decisions during the mission for which he received the Medal of Honor," Dawn said.

Just 11 days after this mission, Thorsness was shot down and captured by the North Vietnamese. There was an 11-month span where his family didn't know if he was dead or alive; his daughter was only 11 years old.

"Every morning I listened to the radio for news about the war," Dawn remembered. "I would look at a world globe and trace where we lived over to North Vietnam. It didn't seem so far on the globe. I



Ceremonial Guardsmen prepare to fire a volley during the full honors funeral ceremony for retired Col. Leo Thorsness at Arlington National Cemetery, Arlington, Va., Feb. 14, 2018. Thorsness was a Vietnam prisoner of war and Medal of Honor recipient who served 23 years in the Air Force. (U.S. Air Force photo by Staff Sgt. Rusty Frank)

wondered why we could not communicate with him. I could see where he was on the map but we were helpless to communicate.”

Back at home, the anti-war movement was gaining momentum, and for many military families, like the Thorsness, it was a difficult time.

“We had a husband and father fighting the war and we supported him, so it was very difficult,” Gaylee said. “We had reason to hate war more than the people protesting, but our country had made a decision to engage so we supported. It was a shock that people hated us for supporting the Vietnam War. It was a horrible time.”

Thorsness spent the next six years in captivity at several POW camps including Hanoi Hilton and Heartbreak Hotel. After his release and return home in 1973, he made the conscious effort to often remind people of how daily freedoms can be taken for granted.

“Leo’s life mantra after coming home from Vietnam was ‘Faith, Family, Friends, and Fun,’” his wife said. “He said no one in prison ever said they wished they had spent more time at the office. He often talked about how lucky he was to be born an American – where people are free.”

After 23 years of service and more than 5,000 flying hours, Thorsness retired from defending those freedoms as an Airman and immediately ran for political office. He served as a Washington State Senator from 1988 to 1992 and went on to serve on the board of directors for the Congressional Medal of Honor Foundation.

“Leo was always willing to work hard,” Gaylee said.

“He carried great responsibility for his country and he did his job extremely well.”

As a civilian, Thorsness fought for the release of information on 30,000 Soldiers listed as either Prisoners of War or missing in action from conflicts dating back to World War II. Though no longer in the Air Force, he continued to serve as an ambassador for servicemember recognition.

Thorsness died May 2, 2017, and at the family’s request, was laid to rest amongst his brothers and sisters in arms.

“Leo had no bitterness and did not carry a grudge,” Gaylee said. “His values were right. How he carried out his life was right. He really was one of a kind. He was a great guy. My husband lived his life truthfully, honestly and honorably.”



Ceremonial Guardsmen and the Band march toward the gravesite during retired Col. Leo Thorsness's full honors funeral at Arlington National Cemetery, Arlington, Va., Feb. 14, 2018. Thorsness was a Vietnam Prisoner of War and Medal of Honor recipient. (U.S. Air Force photo by Staff Sgt. Rusty Frank)

AFCEC project hopes to land Airmen in 'hot water'

By J. Brian Garmon

TYNDALL AIR FORCE BASE, Fla. (AFNS) -- The Air Force Civil Engineer Center is embracing innovation and a partnership with the South Dakota School of Mines and Technology in an effort to bring off-the-grid electricity and hot water to Airmen in difficult deployments around the world.

Using equipment originally designed to heat residential pools, this project is exploring the possibility of deploying kit-ready solar panels along with a water heating system that could provide both electricity and the valuable commodity of hot water to assembled-in-place structures.

Due to these structures’ unique shape and construction, traditional mounting solutions for solar prove difficult to implement. The 823rd Rapid Engineer Deployable Heavy Operational Repair Squadron Engineers at Hurlburt Field, Florida, constructed two small-scale K-Span buildings onsite at Tyndall Air Force Base, Florida to serve as a platform for testing the feasibility of this design.

Currently, once built, these structures are installed on an expeditionary electrical grid, where they serve as command centers, mess halls, maintenance facilities and more. Fuel must be delivered to these remote sites to power them and produce hot water. By introducing this renewable solution to the deployable inventory, it could serve to reduce this dependence on transported fuel.

“Less fuel equals fewer fuel convoys which equals saving troops’ lives,” said Reza Salavani, Air Force Civil Engineer Center energy program manager, requirements and acquisition division.

Mike Tomac is a doctoral student with SDSMT who originally proposed this project as part of his master’s thesis along with professor Dr. David Dixon and former faculty Butch Skillman. The school then brought the proposal to the Air Force, where it was granted funding through an existing contract partnership with AFCEC.

“The most exciting part of this partnership is the ability to apply existing technology in an innovative way for the Air Force,” said Tomac. “Working with the Air Force helped tailor my education and gave me focus on innovation and implementation of projects in a real environment. It brought this applied project to life.”

In addition to Tomac’s work on his master’s degree and PhD, other students have also benefited from the partnership. Another master’s student at SDSMT, Shannon Morse, is using the project for her thesis, and during set-up at Tyndall AFB, two local high school interns from Port St. Joe High School were given an opportunity to participate in the project.

In this project and others like it,

the Air Force fosters strong partnerships with academia and encourages innovation around off-the-shelf tech that can find deployable solutions for Airmen and save the government countless dollars.

“Partnerships with academic institutions around the country give the Air Force access to great minds and fresh perspectives,” said Col. Tim Dodge, AFCEC deputy director. “Harvesting the skills, knowledge, and abilities of students and faculty from around the country can ultimately benefit the warfighter downrange.”



Mike Tomac, PhD student at South Dakota School of Mining & Technology, stands near a small-scale K-Span structure used to test the viability of adapting off-the-shelf solar technology to deployable structures for the Air Force at Tyndall Air Force Base, Florida. (Courtesy Photo)

Airmen assigned to the 8th Civil Engineer Squadron operate snow plows to clear the runway at Kunsan Air Base, Republic of Korea, Jan. 11, 2018. During the second week of January more snow accumulated at Kunsan than in all of 2017, requiring snow removal teams to conduct 24-hour operations to maintain mission readiness. (U.S. Air Force photo by Staff Sgt. Victoria H. Taylor)



8th Fighter Wing CE forms team, tackles snow

By Staff Sgt. Victoria H. Taylor, 8th Fighter Wing Public Affairs

KUNSAN AIR BASE -- Six F-16 Fighting Falcons assigned to the 80th Fighter Squadron "Juvats" returned home from temporary deployment in the Republic of Singapore in support of Commando Sling, February 6, 2018; however, leaving for the training exercise was a bigger task than they anticipated.

Prior to the Juvats' departure window on January 12, more snow accumulated within a 36-hour period than in the entire previous year. The metrological dilemma sent the 8th Civil Engineer Squadron 'Dirt Boys' into overdrive to enable continued aircraft launch and recover operations on the flightline.

During this time, crews at Kunsan worked diligently to stay on top of the weather and transitioned into 24-hour snow-removal operations.

"For light snow, anything less than two inches over a 24 hour period, it takes 12 people, six equipment operators on the airfield, and six augmentees to help out on the base streets," said Master Sgt. Daniel Turba, 8th CE section chief. "When we have a huge snowfall, like we did from January 7-9, we needed every available piece of snow equipment utilized to keep things up and

running. That added up to 34 people operating on all cylinders to ensure mission readiness—22 personnel on the airfield, and 12 personnel on the base streets."

Timely communication was key to determining when the removal processes execution, and the team worked non-stop until all snow was cleared and aircraft could take-off from the runway safely.

"Despite the heavy snowfall, team work, creativity, and a lot of hard work from across the wing, resulted in the 80th deploying on time and being in-place for a very important PACOM exercise," said Lt. Col. William Lutmer 80th FS commander.

The level of communication and timing to launch the Juvats even meant clearing portions of the runway to allow a jet to pass quickly, only to have it re-freeze again.

"It was an incredible Wolf Pack-wide effort to make this happen, to include the maintainers shifting the jets to the flows the day prior, constant coordination and prioritizing with the 80th and Operations Support Squadron, Logistics Readiness Squadron keeping our snow removal fleet running, and of course our 'Dirt

Boys', Power Pro, and snow removal augmentees, who were all in to make sure the airfield was safe for the Juvats to launch," said Maj. Chris Cagle, 8th CE operations flight commander.

Mission readiness is a high priority at the Wolf Pack, which requires all

members across varying functional areas to communicate and cohesively work as one.

"Wolf talks a lot about the importance of cross-functional coordination and how it drives the Wolf Pack mission," said Cagle. "This was about as good as it gets."



SPACE HEATER SAFETY

According to United States Fire Administration, an estimated 900 portable heater fires in residential buildings are reported to U.S. fire departments each year and cause an estimated 70 deaths, 150 injuries, and \$53 million in property loss.

Only 2 percent of heating fires in residential buildings involved portable heaters; however, portable heaters were involved in 45 percent of all fatal heating fires in residential buildings. Portable heater fires in residential buildings peaked in January (26 percent).

Safety must be a top consideration when using space heaters.

Safety Precautions

1. Space heaters must be tested by the Underwriter's Laboratories (UL) or other qualified agencies. This will be identified by a clearly visible label somewhere on the unit.
2. Use of portable kerosene space heaters is prohibited in all OSAN Air Base facilities.
3. Space heaters must be equipped to shut off electric power to the unit when tilted or turned over.
4. Space heaters will be kept at least 18 inches away from combustible materials such as papers, furniture, or curtains.
5. The space heater must be plugged directly into an outlet. Do not use a light-duty extension cord or a multi outlet strip/surge protector; it can start a fire with a high-wattage appliance.

Should you any questions or concerns, feel free to contact Fire Prevention Office at 784-4835/4710.



Every year, almost 1,000 smokers and non-smokers are killed in home fires caused by cigarettes and other smoking materials. These fires are absolutely preventable!

If you smoke or live with someone who smokes, learn the facts. A lit cigarette accidentally dropped onto a chair or bed, hot cigarette ashes or matches tossed away before they are completely extinguished can ignite a fire in seconds.

Smoking & Home Fire Action Steps

- If you smoke, smoke at the designated area.
- Whenever you smoke, use deep, sturdy ashtrays.
- Keep matches and lighters up high, out of children's sight and reach.
- To prevent a deadly cigarette fire, you have to

be alert. You won't be if you are sleepy, have been drinking, or have taken medicine or other drugs.

- Before you throw out butts and ashes, make sure they are out, and dousing in water or sand is the best way to do that.
- Never smoke in a home where oxygen is used. (Ref: U.S. Fire Administration)

Smoking in Air Force facilities is prohibited in most cases. (Ref: AFI 40-102, Tobacco Use in the Air Force) All areas will be considered "NO SMOKING" areas unless a "DESIGNATED SMOKING AREA" sign is posted.

Any questions, feel free to reach out to Fire Prevention Office at 784-4834 or 4835.





Members from the United Service Organizations based at Osan Air Base, Republic of Korea pose for a photo with the 8th Communications Squadron, Jan. 26, 2018. Due to Kunsan being a true remote tour, the USO from Osan visit once a month providing care packages to U.S. service members to show their support. (U.S. Air Force photo by Senior Airman Colby L. Hardin)

USO shows The Wolfpack will not be forgotten

By Senior Airman Colby L. Hardin, 8 Fighter Wing Public Affairs

KUNSAN AIR BASE -- The United Service Organizations team from Osan Air Base visited the men and women stationed here to deliver

care packages Jan. 25. The USO team handed out over 1,200 care packages at different locations throughout the base, starting at the dining facility and ending with a visit to the ammunitions flight. The team, along with volunteer Airmen from Osan,

travel to Kunsan once a month to show everyone stationed here that they are not forgotten.

“The troops love it, it is amazing how a small gesture can go a long way,” said Hasret Jackson, 51st Fighter Wing USO field programs manager. “Young service members that have never really been away from home are especially grateful and it increases morale.”

Different events are held each time the USO office comes down to visit. This past holiday season, the team gifted Kunsan with holiday stockings as care packages. They also plan to hold a free barbeque in the upcoming spring.

“The USO at Osan always does a very good job supporting us here,” said Paul Willson, 8th Civil Engineering Squadron explosive ordnance disposal quality assurance

non-commissioned officer in charge. “They come here just to show that the work that we all do is appreciated.”

Even though there are more than 200 USO locations located around the world, Kunsan is an unaccompanied base with no families and limited resources. It does not allow for a USO to be stationed here.

“The Osan USO shows a lot of interest in helping us here,” said Willson. “So far it’s been a really big deal, especially for members who are in our position.”

The USO keeps America’s military members connected to family, home and country, throughout their service to the nation. It’s their job to adapt to the needs of the ones in uniform or even retired so that they can focus on their very important mission.



U.S. Air Force Col. David Shoemaker, 8th Fighter Wing commander, presents Republic of Korea Col. Jun-sun Cha, outgoing 38th Fighter Group commander “Thor”, with a parting gift following the change of command ceremony at Kunsan Air Base, RoK, Jan. 17, 2018. Cha recognized the 8th FW in his farewell speech noting that “we are one team,” and the partnership between the two groups is something he will remember most. (Courtesy photo)

Pako, a five-and-a-half-year-old 96th Security Forces Squadron military working dog, suffered a heat stroke last year and died. The base veterinary clinic helped revive him and bring him back through CPR procedures. He beat almost insurmountable odds (for dogs) to survive heat stroke and CPR to make a full recovery. (U.S. Air Force photo by Samuel King Jr.)



Military working dog revived by vet tech

**By Samuel King Jr.
Team Eglin Public Affairs**

EGLIN AIR FORCE BASE, Fla. (AFNS) -- The dog lay on the table struggling to breathe in the throes of a severe heat stroke. Pako, 96th Security Forces Squadron military working dog, thrashed around wildly. His vital signs were fading fast. At one point, his pulse vanished. Pako's heart stopped.

This was the scene of the emergency Army Sgt. Kelli Helfinstine and the base veterinary clinic personnel faced one hot day in June 2017.

"This was the most severe heat injury I have encountered," said Helfinstine, who recently received an Air Force Achievement Medal for her valiant efforts to save Pako's life. "I just thought, this animal needs oxygen, we need to get him oxygen."

Pako and his handler, Staff Sgt. Radames Leon, were participating in a hostile suspect exercise. The five-and-a-half-year-old K-9 searched, but was unable to find his target. He pressed on, unwilling to give up the hunt. His body temperature began to rise at an uncontrollable rate.

Pako showed no signs of heat injury, but did appear overly exerted, according to Tech. Sgt. Bryan Bowermaster, Eglin AFB's kennel master. Leon took the dog's temperature, which read 105, the average working temperature for the



Staff Sgt. Radames Leon and Pako are a 96th Security Forces Squadron military working dog team at Eglin Air Force Base, Fla. Last year, on a hostile suspect exercise, Pako suffered a heat stroke and almost lost his life. The base veterinary clinic helped revive him and bring him back through CPR procedures. He beat almost insurmountable odds (for dogs) to survive heat stroke and CPR to make a full recovery. (U.S. Air Force photo by Samuel King Jr.)

Belgian Malinoise's breed.

"These military working breeds are very high drive and will work themselves to death if allowed," said Helfinstine. "Heat injury is very serious and can progress quickly. He was probably fine initially, but continued to get hotter."

The training was cancelled and the MWD team returned to the kennel. It was then that Pako showed clear signs of distress and heat stroke.

He was immediately rushed to the veterinary clinic. The technicians provided oxygen and tried to cool Pako down while waiting for the veterinarian, Capt. Ashley Hydrick, to arrive. At this point, Pako was in severe respiratory distress and approaching cardiac arrest.

In the midst of the breathing and cooling procedures, Pako's heart stopped beating.

"I will never forget the moment I saw Pako's life slip away," said Bowermaster, a MWD handler for seven years. "His pupils dilated to a point where you could no longer see the brown of his eyes."

For approximately 10 minutes, Hydrick and others performed chest compressions, while Helfinstine administered the oxygen ventilation. Then, unexpectedly, Pako's pulse returned.

"I was so relieved when he stabilized," said Helfinstine, a 10-year vet tech. "I felt like I could finally breathe too. I could tell everyone was relieved. I continued to monitor his vitals and ensured he was getting the oxygen he needed."

Pako had not only defied the almost insurmountable odds of a dog surviving a heat stroke, but he also recovered via CPR, another extremely rare feat, according to Helfinstine.

When he stabilized, Pako was sent to the emergency clinic in Pensacola, Florida, for his follow-on care. When a large enough vehicle was coordinated, the handlers escorted their partner to the clinic. Hydrick and Helfinstine accompanied their patient on his journey providing fluids and monitoring his progress. The mutual opinions of the technicians and handlers was that Pako probably would not make it through the night.

Staff Sgt. Shane Massie, Pako's first handler and now Eglin AFB's MWD trainer, stayed with the dog that night in intensive care.

Pako survived the night. The following day he was removed from the ICU and was up and about although a little wobbly, according to Bowermaster.

"That dog's spirit kept him alive, kept him going," said Bowermaster.

Pako spent three days recovering in Pensacola. Because he is a military asset, an Airman had to be with him at all times.

For Leon, Massie and the other MWD handlers even if they weren't directed to stay, they all said they'd have been there for him regardless.

"There's a personal relationship that forms between us and these dogs," said Leon, who's been Pako's handler for approximately a year now. "We can't help but create a bond, a partnership, with them."

Upon returning to Eglin Air Force Base, Pako went into an eight-week rehabilitation program that slowly reintegrated him into his training regime. He is now playfully referred to around the kennel as the "zombie dog."

"Pako is now back and better than ever," said Bowermaster. "He works just as hard now as he did before his injury."



Sgt. Kelli Helfinstine, base veterinary technician, gives Pako, 96th Security Forces Squadron military working dog, a scratch on the head after her Air Force Achievement Medal ceremony Feb. 6, 2018, at Eglin Air Force Base, Fla. Helfinstine was awarded the medal for her efforts in saving Pako's life when he suffered a heat stroke and almost died in June 2017. (U.S. Air Force photo by Samuel King Jr.)

AFRL provides support to robot competition

By Marie Vanover
88th Air Base Wing Public Affairs



Maj. Gen. William Cooley, Air Force Research Laboratory commander, Wright-Patterson Air Force Base, Ohio, explains how important it is for students to pursue STEM-related careers during the FIRST LEGO League Ohio Championship Tournament held Feb. 4, 2018 at Wright State University. (U.S. Air Force photo by Marie Vanover)

WRIGHT-PATTERSON AIR FORCE BASE, Ohio (AFNS) -- Approximately 14 teams from the Miami Valley joined 46 other teams from across Ohio at the For Inspiration and Recognition of Science and Technology (FIRST) LEGO League Ohio Championship, held Feb. 4, 2018 at the Nutter Center at Wright State University.

The annual event brought together students 9 to 14 years old who demonstrated their engineering and problem-solving skills, critical thinking, teamwork, competitiveness, sportsmanship and sense of community.

The Air Force Research Laboratory, which hosts the event, has provided support since 2001. According to Daniel Andrews, Wright-Patterson Air Force Base K-12 STEM Outreach Lead, FIRST LEGO League is "a program that gets kids excited about STEM."

This year's theme was "Hydro Dynamics," and the teams developed a presentation, participated in a teamwork activity and participated in a robot competition, Andrews added.

Three teams advanced from the FIRST LEGO League Ohio Championship and earned bids to compete at the World Festival in Detroit; two teams earned bids to compete at the Razorback Invitational in Fayetteville, Arkansas, and one team earned a bid to compete at LEGOLAND in Carlsbad, California.

The FIRST Robot Competition, a high school competition, will be March 2, 2018 at the Nutter Center and will feature 120-pound robots built by high school students, grades 9-12.

FIRST Robotics Competition is a high school age program combining the excitement of sports with the rigors of science and technology. AFRL will host 62 FRC teams at the Miami Valley Regional, with teams from nine states. Following the FRC, six teams will be invited to the World Championship in Detroit in April.