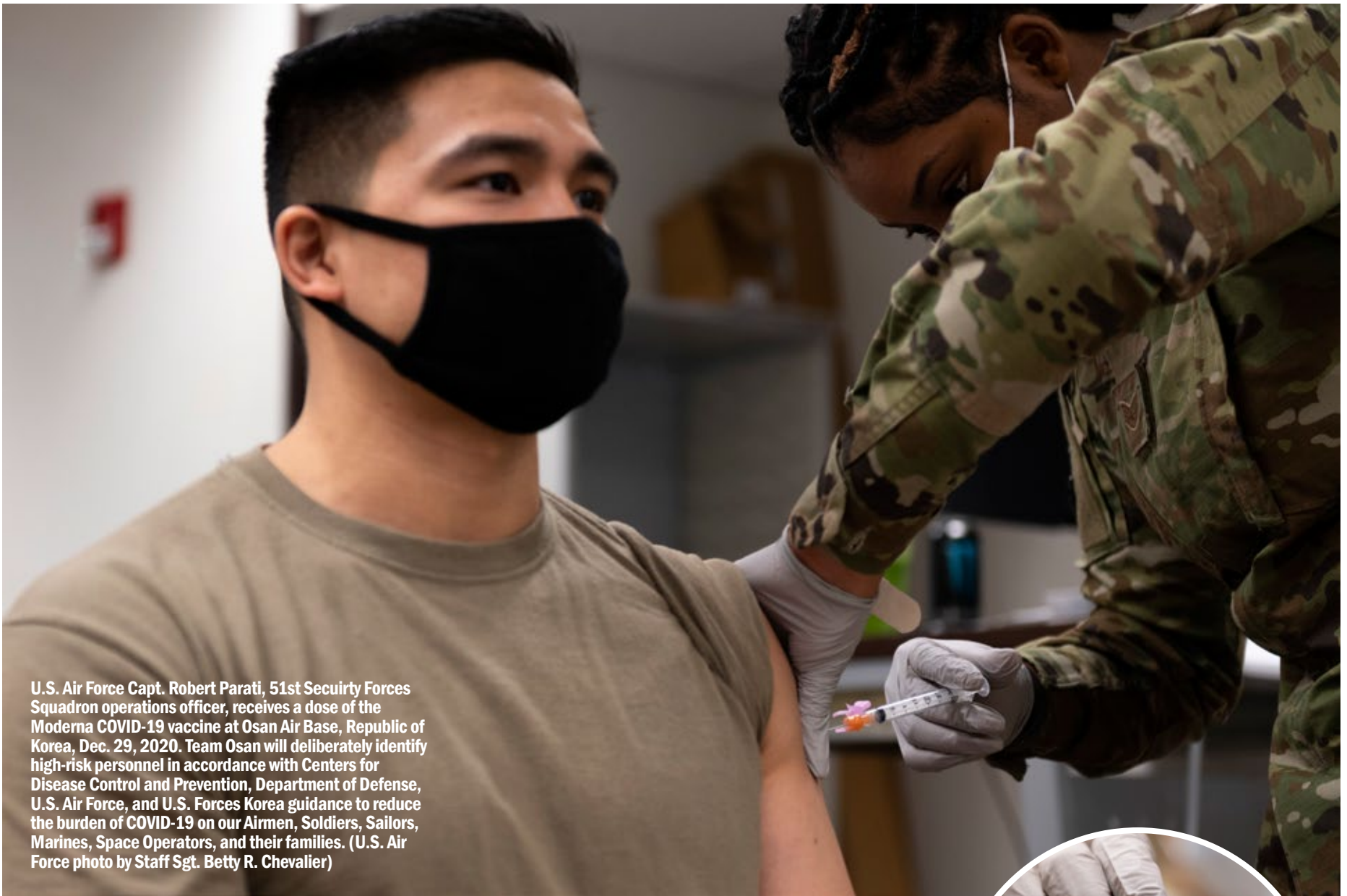


Crimson Sky



U.S. Air Force Capt. Robert Parati, 51st Security Forces Squadron operations officer, receives a dose of the Moderna COVID-19 vaccine at Osan Air Base, Republic of Korea, Dec. 29, 2020. Team Osan will deliberately identify high-risk personnel in accordance with Centers for Disease Control and Prevention, Department of Defense, U.S. Air Force, and U.S. Forces Korea guidance to reduce the burden of COVID-19 on our Airmen, Soldiers, Sailors, Marines, Space Operators, and their families. (U.S. Air Force photo by Staff Sgt. Betty R. Chevalier)

USFK Healthcare Workers and First Responders Receive COVID-19 Vaccine



U.S. Forces Korea Public Affairs

USAG HUMPHREYS, Republic of Korea -- United States Forces Korea started inoculating military and civilian healthcare workers, first responders and the USFK command team with the Moderna COVID-19 vaccine across three USFK medical treatment facilities.

The three locations administering the Moderna COVID-19 vaccine are the Brian D. Allgood Army Community Hospital at United States Army Garrison - Humphreys, 51st Medical Group at Osan

Air Base and 8th Medical Group at Kunsan Air Base.

USFK was previously identified as one of four overseas locations to receive the Moderna COVID-19 vaccine through the Department of Defense's deliberate and phased distribution plan.

The U.S. Food and Drug Administration authorized the Moderna COVID-19 vaccine under an emergency use authorization on Dec. 18 following Moderna's careful and rigorous three-phased clinical trial that demonstrated the vaccine to be safe and effective for use.

Under an emergency use authorization, the vaccine is 100% voluntary and not mandatory.

"I strongly encourage all eligible individuals to receive the vaccine," said Gen. Robert B. "Abe" Abrams, USFK Commander. "While the Moderna vaccine is completely voluntary under an EUA, I want you to make an informed decision for you and your family regarding the vaccine."

< Continued on page 21 >



INSIDE →



PAGE 8

Kunsan holds inaugural Airpower Leadership Academy course



PAGE 23

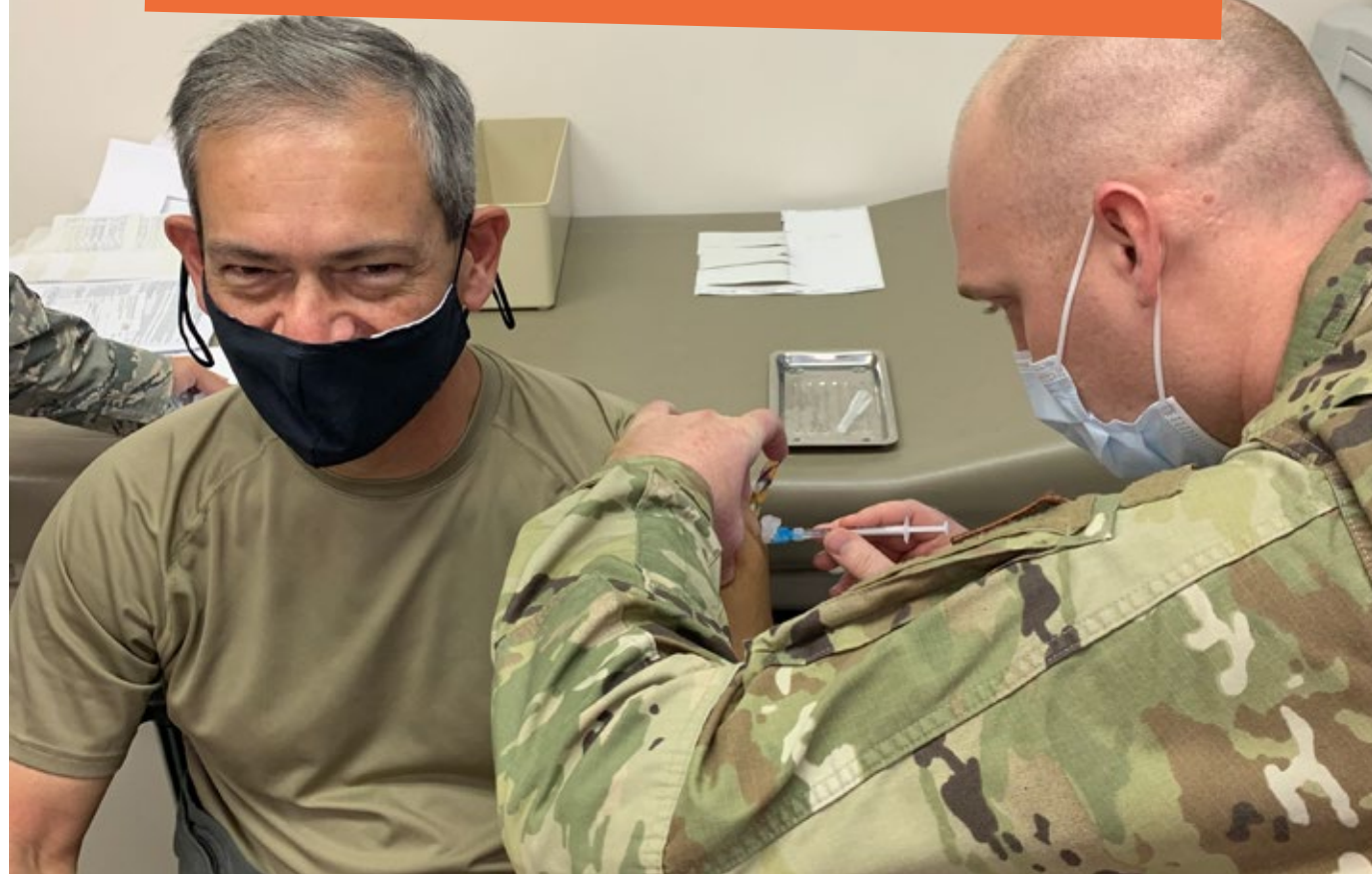
SERE: Water survival - preparing Airmen for open water



PAGE 24

All byte, no bark for 'robotic K-9'

Pacific Air Forces Commander receives COVID-19 vaccine



Gen. Ken Wilsbach, Pacific Air Forces commander, receives the initial COVID-19 vaccine, Dec. 29, 2020. Department of Defense personnel are encouraged to receive the vaccine when they are offered in order to mitigate the risk of COVID-19 spreading throughout their communities. Vaccinated people will be protecting themselves, as well as their families and all people with whom they interact. (Courtesy photo)

8 AMXS First Sgt. receives fam flight



Airmen from the 8th Fighter Wing pose for a photo with Master Sgt. Landon Baugh, 8th Aircraft Maintenance Squadron first sergeant, at Kunsan Air Base, Republic of Korea, Dec. 10, 2020. Baugh received a familiarization flight due to his hard work as a first sgt. and dedication to his Airmen and Kunsan community. (U.S. Air Force photo by Senior Airman Mya M. Crosby)



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Technical Sgt. Alexis Humphrey, 8th Medical Group independent duty medical technician, administers the Moderna COVID-19 vaccine to Maj. Heather Foster, 8th MDG public health emergency officer, at Kunsan Air Base, Republic of Korea, Dec. 29, 2020. The Wolfpack received its first shipment of the Moderna COVID-19 vaccine given to healthcare workers, emergency personnel, and first responders. (U.S. Air Force photo by Staff Sgt. Jordan Garner)

Technical Sgt. Alexis Humphrey, 8th Medical Group independent duty medical technician, administers the Moderna COVID-19 vaccine to Maj. Heather Foster, 8th MDG public health emergency officer, at Kunsan Air Base, Republic of Korea, Dec. 29, 2020. The Wolfpack received its first shipment of the Moderna COVID-19 vaccine given to healthcare workers, emergency personnel, and first responders. (U.S. Air Force photo by Staff Sgt. Jordan Garner)

Wolf Pack receives its first COVID-19 vaccines

8th Fighter Wing Public Affairs

KUNSAN AIR BASE, Republic of Korea -- The first shipment of Moderna COVID-19 vaccinations arrived at Kunsan Air Base, Republic of Korea, Dec. 29, 2020.

In line with the DOD prioritization guidelines, the recipients of the vaccine were from the 8th Fighter Wing's first responders.

Maj. Heather Foster, 8th Medical Group public health emergency officer, was the first person to receive the vaccine at the Wolf Pack. "One of the bigger reasons to get the vaccine is to protect our families," says Foster. "When I got mine today, I was thinking about my mom. I want to protect her. She's older and I could easily be a carrier that could get her sick. So it's important to me to get the vaccine so I can protect the people around me that I care about."

Following this initial phase, additional vaccine shipments will arrive on-peninsula as Moderna, and potentially other FDA-authorized vaccines, are produced and shipped to United States Forces Korea. These vaccines will be made available for those eligible and in accordance with the DOD prioritization categories.

"I look at this as a historical thing and as my social duty," says Senior Master Sgt. Andrew Kehl, 8th Civil Engineer Squadron fire chief,



The Korean Informational Association's Korea Peace Medal stands ready to be worn on Osan Air Base, Republic of Korea, Dec. 8, 2020. The medal is given to members of Chaplain Corps who served more than a year in Korea and made a significant impact. (U.S. Air Force photo by Master Sgt. Rachelle Blake)

Technical Sgt. Alexis Humphrey, 8th Medical Group independent duty medical technician, prepares to administer the Moderna COVID-19 vaccine at Kunsan Air Base, Republic of Korea, Dec. 29, 2020. The Wolfpack received its first shipment of the Moderna COVID-19 vaccine given to healthcare workers, emergency personnel, and first responders. (U.S. Air Force photo by Staff Sgt. Jordan Garner) ▶



another member who was among the volunteers to receive the vaccine. "We're at the forefront of a world pandemic, and here we are getting the vaccine as one of the first people, so I'm just extremely grateful."

The Moderna COVID-19 vaccine arrived in South Korea on Dec. 25 at Incheon Airport. After clearing customs, it remained in cold-storage handling and ground delivered to the three medical treatment facilities at Camp Humphreys, Osan AB and Kunsan AB.

Due to the emergency use authorization, the Moderna vaccine is 100% voluntary.

"With the rollout of the vaccine, it's the first step in the right direction of getting back to normal and protecting our force to continue the mission in the ways we were doing prior to COVID," says Col. Christopher Hammond, 8th Fighter Wing commander. "We're trying to encourage our Airmen, Soldiers, civilians, and families to get the vaccine. I know I will when the opportunity presents itself."

PACAF works jointly with allies, partners to secure free, open Indo-Pacific

8th Fighter Wing Public Affairs

JOINT BASE PEARL HARBOR-HICKAM, Hawaii -- Pacific Air Forces demonstrated its ability to conduct combined joint all-domain command and control to keep a free and open Indo-Pacific Dec. 21, when the command worked together with allies and partners in the region to secure the Western Pacific.

F-15Cs and a KC-135 from the 18th Wing at Kadena Air Base, Japan, as well as aircraft from the Republic of Korea Air Force and Japanese Self-Defense Force, responded to Chinese and Russian aircraft flying together in airspace monitored by the U.S. and its allies and partners. Korea and Japan handled the response in the vicinity of their airspace, while PACAF responded to the aircraft in international airspace.

"We're always ready to quickly and safely respond at a time and place of our choosing," said Gen. Ken Wilsbach, PACAF commander. "I'm glad to have opportunities like this to work with our joint teammates and allies and partners to conduct information sharing and synchronize our response. This mission demonstrated decades of work and training we've accomplished together to focus on our interoperability to secure the safety of the theater."

The 613th Air Operations Center in Hawaii, serving as the theater's primary node to synchronize joint targeting and effects for air operations, worked with a U.S. Navy surface



A U.S. Air Force 67th Fighter Squadron F-15C Eagle and a 909th Aerial Refueling Squadron KC-135 Stratotanker prepare to conduct air-to-air refueling during a training exercise July 8, 2020, off the coast of Okinawa, Japan. U.S. Air Forces are postured and ready to respond to crises and contingencies throughout the U.S. Indo-Pacific Command, contributing to regional stability and a free and open Indo-Pacific. (U.S. Air Force photo by Airman 1st Class Rebeckah Medeiros)

warship and air operations centers in the region to provide seamless combined joint all-domain command and control of the operation from start to finish.

"This operation highlighted our capability to provide a common operating picture to do our mission. Our shared interoperability with the U.S. Navy, the ROKAF and the Koku Jieitai (Japan Air Self-Defense Force) showed our flexibility and speed to respond to potential threats," said Maj. Gen. Lansing Pilch, PACAF director of operations and communications.

"From detection to completion, we were able to use our innovation and technology to seamlessly

communicate with our counterparts."

Our shared situational awareness with our allies and partners is a major advantage, which allowed decentralized execution on each nation's part, said Pilch.

The U.S. and its allies and partners train regularly to conduct intercepts, and used this opportunity to sharpen their skills.

"I'm proud of our Airmen and teammates from the Republic of Korea and Japan who displayed outstanding airmanship and poise while conducting this operation. It shows the thousands of flight hours of training together has paid off," said Wilsbach.



Lt. Gen. Scott Pleus, Seventh Air Force commander, and Maj. Gen. Stephen Williams, U.S. Forces Korea Chief of Staff, pose for a photo at Kunsan Air Base, Republic of Korea, Dec. 23, 2020. Pleus and Williams served at Kunsan, respectively, as the 8th Fighter Wing commander and vice commander in 2011 to 2012. (U.S. Air Force photo by Tech. Sgt. Kristin High)

Clear skies and tailwinds!

By Tech. Sgt. Kristin S. High
8th Fighter Wing Public Affairs

KUNSAN AIR BASE, Republic of Korea -- Maj. Gen. Stephen Williams, United States Forces Korea Chief of Staff, visited the Wolf Pack, Dec. 23, 2020, for an opportunity to mentor junior officers on base prior to the end of his tour here.

He spoke to the officers about improving the base and things they can do to better themselves throughout their careers.

"You are the best thing for the [US/Korean] alliance when you can go out and travel through Korea," said Williams. "Unfortunately you don't get to do that right now. It's hard but you have to make the best of it."

He asked their opinions and to think outside of the box to improve quality of life here and across the peninsula.

First Lt. Lydia Kim, 35th Aircraft Maintenance Unit assistant officer-in-charge, responded, "I think the [8th] Force Support Squadron does a great job with the [travel] trips. We're trying to do the best we can with what we have."

The session lasted about an hour with

Maj. Gen. Stephen Williams, United States Forces Korea Chief of Staff, speaks to junior officers during a mentor session at Kunsan Air Base, Republic of Korea, Dec. 23, 2020. Williams provides day-to-day direction to a joint U.S. staff of a sub-unified command and coordinates with component staffs, assisting the commander in management of U.S. Forces in Korea during Armistice and crisis. (U.S. Air Force photo by Senior Airman Mya M. Crosby) ▼



important questions asked on both sides.

"I appreciate him for taking the time out to mentor us," said Kim. "You can tell he truly cares about us and is constantly trying to help our quality of life for our Airmen."

In addition to his mentorship session, Williams conducted his "fini" flight along with his former "Wolf", Lt. Gen. Scott Pleus, current Seventh Air Force commander.

With more than 30 years of service, he accumulated more than 3,000 flying hours, including more than 260 combat hours earned during operations Southern Watch and Iraqi Freedom.

Williams served as "Wolf II" or Kunsan Air Base vice wing commander from 2011-2012.

The Airman at Kunsan AB wish you 'Clear skies and tailwinds!'



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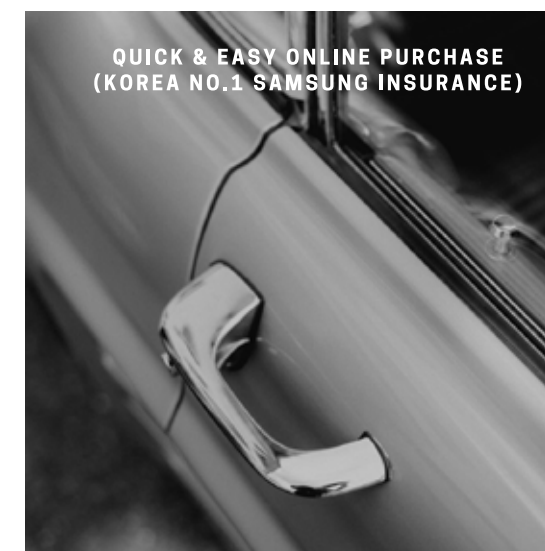
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Col. Christopher Hammond, 8th Fighter Wing commander, and Chief Master Sgt. Ronnie Woods, 8th FW command chief, pose for a group photo with Airpower Leadership Academy graduates at Kunsan Air Base, Republic of Korea, Dec. 17, 2020. The graduating class was the first rotation of ALA at Kunsan and consisted of Airmen working toward being better individuals and leaders for themselves and to their fellow Airmen. (U.S. Air Force photo by Jessica Blair)

Kunsan holds inaugural Airpower Leadership Academy course

By Senior Airman Mya M. Crosby
8th Fighter Wing Public Affairs

KUNSAN AIR BASE, Republic of Korea -- Professional development allows Airmen, of all ranks, to take charge of their careers. The Air Force is continuously working towards improving Airmen's professional and personal growth.

The 8th Fighter Wing hosted their inaugural Airpower Leadership Academy course at Kunsan Air Base, Republic of Korea, Dec. 17, 2020. The graduating class consisted of Airmen working toward being better individuals and leaders for themselves and to their fellow Airmen.

"Airpower Leadership Academy is focused mentoring and growth through guided discussion," said Master Sgt. Gene Tschida, 8th Civil Engineer Squadron explosive ordnance disposal flight chief and ALA director. "During the two-hour discussions each week, conversations are designed to reshape noncommissioned officers' thought processes and encourage critical thinking. The true learning from ALA comes after the discussions, when NCO's are immersed in their work environment and can connect real world application to the perspectives gained from class."

The Airmen rank from staff sergeant and technical sergeant, and hand-selected by their



Col. Christopher Hammond, 8th Fighter Wing commander, speaks to the Kunsan inaugural Airpower Leadership Academy graduating class at Kunsan Air Base, Republic of Korea, Dec. 17, 2020. The graduating class was the first rotation of ALA at Kunsan and consisted of Airmen working toward being better individuals and leaders for themselves and to their fellow Airmen. (U.S. Air Force photo by Jessica Blair)020 New York Air Show, which was held in a drive-in format. (U.S. Air Force photo by Capt. Kip Sumner)

Airmen attend the Kunsan inaugural Airpower Leadership Academy graduation at Kunsan Air Base, Republic of Korea, Dec. 17, 2020. The graduating class was the first rotation of ALA at Kunsan and consisted of Airmen working toward being better individuals and leaders for themselves and to their fellow Airmen. (U.S. Air Force photo by Jessica Blair) ▶



senior enlisted leaders at the Wolf Pack.

"I'm excited that we were able to bring the Air Power Leadership Academy here to the Wolf Pack," said Chief Master Sgt. Ronnie Woods, 8th Fighter Wing command chief. "The program is great because it focuses on deliberate mentorship from great leaders, while also ensuring the diverse perspectives of our students allows them to teach each other. I fully believe leadership can be taught from many different perspectives, and that flexibility is what ALA is all about."

The mentorship and involvement from senior enlisted Airmen to their junior Airmen is pertinent to the students' success for the course and the rest of their careers. The students also dive into group exercises and exchanges of views to benefit each other's new frame of mind.

"As sessions are held for one two-hour blocks, once a week for ten-weeks," said Tschida. "In the ten weeks, there are three unique days: the icebreaker, a first sergeant panel and graduation. The other sessions are set up as a circle or U-shaped design. The cadre may have two to three slides for visual reference, conduct team building exercises, or play a short video to convey a topic. Beyond that, it is aggressive conversation, discussing conflicting points of view, and learning from each other."

Dialogue is a key element in the ALA program, and goes beyond the classroom at the Wolf Pack. While still a new program within the last few years, it's begun to broaden and connect with its audience.

"I was selected to standup the inaugural ALA program at the 332nd Air Expeditionary Wing last year, and since have become attached to the wonderful people and conversation it generates," said Tschida. "I am currently the ALA Director here at the Wolf Pack, a position I am truly humbled to serve in. I coordinate the instructors, students, and topics to ensure things go smoothly. I lean on my fellow cadre for support with items like the chief master sergeant interviews, the first sergeant panel and graduation planning."

ALA is not a course that any Airman can attend, and is designed to deeply consider who receives the opportunity to catch insight from senior mentors of the Wolf Pack. Once the NCO's graduate, they along with the cadre, select the next class - Airmen who can gain knowledge from the course and contribute to this newly found program.

"The goal, in my own words, is to impact a few individuals a great degree, so they may have a positive ripple effect of empathy and deliberate leadership for fellow Airmen," said Tschida. "How important proper communication is, we are in control of how happy we are, no title, rank or position can prevent you from performing at a higher level, and that personal and professional growth never stops."

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.

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What is COPPER MASK? -- Things You Should Know --

By Jessica Jun, Copper Mask Specialist

Copper Masks – Are they worth it?

If you've been on the hunt for a mask lately, you might have stumbled across one that contains copper. And if you have not tuned into the latest news on antimicrobial treatments, this might raise some questions. Why copper? And is it worth spending the extra money?

While a lot of research is still being conducted about their effectiveness, several studies have already shown that some copper masks can in fact inactivate the novel coronavirus. However, not all copper masks are equally effective, and here are some things to consider if you are looking to buy a copper mask.

Why Copper?

Copper can destroy bacteria and viruses as it contains positively charged ions that trap viruses that are negatively charged. Then the copper ions penetrate the viruses, stopping them from replicating. A recent study conducted at Jeonbuk National University in Korea found that a mask with 22% copper content can effectively inactivate the novel coronavirus within 30 minutes.

Historically, copper has been used in hospital door knobs and IV stands to curb the spread of illness. It has also been used in fabrics that have been made into bedsheets and pillowcases in hospitals. And now that masks have become essential across the globe, many companies are considering incorporating copper into masks and they currently cost anywhere from \$10 to \$70 each.

Copperline (Jang Whan Kim, LSKfinetex Co., Ltd.) for instance, has started making cloth masks that with 22% copper content, which has proven to be far more effective than those with 49 to 60% copper. The company is also the first mask producer to receive certification and recognition for Sustainable Design from the Korean Ministry of Environment.

How is it better?

Copper masks are designed to be an improvement on the cloth masks that health officials recommend that people wear in public to prevent the spread of coronavirus. It is beneficial for both the wearer and the general public. If the infected person wears a copper mask, virus-laden droplets from mouth and nose will be killed off when they touch the copper surface, whereas they will linger on traditional cloth mask for days, potentially contaminating the wearer.

Are they reusable?

One of the benefits of copper masks is that they can be washed and reused, thus more hygienic and sustainable for the environment. Many Copper masks, including Copperline's, can be washed multiple times without reducing their efficacy. Simply wash with soap and water and hang dry to wear the next day.

So should you buy a copper mask?

Copper masks are comfortable and environmentally friendly. Most of all, studies have proven their effectiveness in killing the novel coronavirus. However, buyer should make sure that the product has been scientifically evaluated and registered. Many copper masks that are available through major retailers have not been studied and may not be as effective, especially without proper copper content.

For more information, please contact:
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Comparison with Other Fabric Masks

"According to the results, a substantial decrease in fluorescence emission intensity in SARS-CoV2-infected cells treated with different copper percentages of 22, 49, and 60 compared to an intense green fluorescence signal that was observed 0% copper treatment group. There was almost no fluorescence signal at cells treated with the 3D textured with copper-base mask materials with 22% of copper to that of the control group."

"After 30 min of infection, the 3D textured with copper-base mask materials with 22% of copper had nearly 100% and the 49% and 60% of copper coated general mask materials had approximately 80% of inhibitory effect against SARS-CoV2. After 1 hour and 2 hours of infection, compared to each other no compound appeared to be significantly superior in activity to another among the copper percentages tested."

Immunofluorescence Assay					
Uninfected VERO E6 Cell	Infected w/ COVID-19	Fabric w/ 0% Copper Content	3D Textured Mask Fabric w/ 22% Copper Content	Single Layer Fabric w/ 49% Copper Content	Single Layer Fabric w/ 60% Copper Content

Source: 'Assessment of COVID-19 virucidal activity of 3D layered structure with copper-based copperline face mask of LSK FINETEX' John Hwa Lee, DVM PhD, Jeonbuk National University, South Korea



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KUNSAN MIDDAY OPS



Capt. William Jaundalderis, 35th Fighter Squadron F-16 Fighting Falcon pilot, fastens his helmet prior to flight at Kunsan Air Base, Republic of Korea, Dec. 10, 2020. Pilots conduct flying operations, including combat, combat support and training missions. (U.S. Air Force photo by Senior Airman Mya M. Crosby) ◀



Senior Airman Kevin Nguyen, 8th Maintenance Group weapons load crew member, inspects an Air Combat Maneuvering Instrumentation pod on an F-16 Fighting Falcon before flight at Kunsan Air Base, Republic of Korea, Dec. 10, 2020. Basic ACMI systems determine aircraft position and performance data and transmit the data to ground-based monitoring stations for recording, display, and debrief. (U.S. Air Force photo by Senior Airman Mya M. Crosby)



An F-16 Fighting Falcon assigned to the 80th Fighter Squadron takes flight over Kunsan Air Base, Republic of Korea, Dec. 10, 2020. The 80th and 35th FS, both assigned to Kunsan, were the first overseas units to fly the F-16 Fighting Falcons in 1981. (U.S. Air Force photo by Senior Airman Mya M. Crosby) ▼



Staff Sgt. Nigel Calhoun, 8th Maintenance Group weapons load crew chief, performs a pre-flight inspection on an F-16 Fighting Falcon at Kunsan Air Base, Republic of Korea, Dec. 10, 2020. Pre-flight inspections are the final step in preparation for an aircraft to take flight. (U.S. Air Force photo by Senior Airman Mya M. Crosby) ▲



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What's Love Got to Do With It?

“Attachment is forbidden! Possession is forbidden! Compassion, which I would define as ‘unconditional love’, is essential to the Jedi’s existence. So, one might say that we are encouraged to love”.

- Anakin Skywalker
(from *Star Wars*) in Daum (2015)

Love has variously been described as a feeling, a strong bond, or an attachment. However, philosopher Martin Buber, much like Anakin Skywalker in *Star Wars*, conceives of love in an altogether different light. For a US military commander or Airman on active duty, love for the country and the communities they protect is at the core of love as a form of responsibility, rather than just an emotion. Love as responsibility is the basis of all relationships characterized by good faith. As US military personnel, love takes the form of commitment to the nation and the people one has sworn to protect. It is as much about relationships as it is about compassion, whereby the feelings are at the periphery. The sense of duty is at the core of love for Airmen, much like a Jedi embracing the light or the concept of love, as propounded by Buber.

Relating to leaders, communities, and even enemy soldiers are the cornerstone of effective US military operations. For Buber, “love without dialogue, without real outgoing to the other, reaching to the other and accompanying with the other” was just an empty, meaningless emotion tantamount to “Lucifer”, much like Anakin when he embraces the dark side and becomes Darth Vader. As a fighter and a protector, an Airman needs to embrace the relational aspects of love, whether located in active combat or stationed abroad. Love means embracing differences and rejecting selfishness. For combatants and military leaders in the Air Force, love holds a special meaning, rather than just a second-hand emotion as Tina Turner once sang. As far as protecting and serving communities is concerned, love reflects in the risks the Airmen take to do their duty and safeguard the entire nation. Moving past the “I” and the ego forms the basis of true love, not seeing service as a means of self-aggrandizement. Commitment is the key to surviving and thriving in the military, rather than evading responsibilities, and as Buber succinctly sums up, “In the



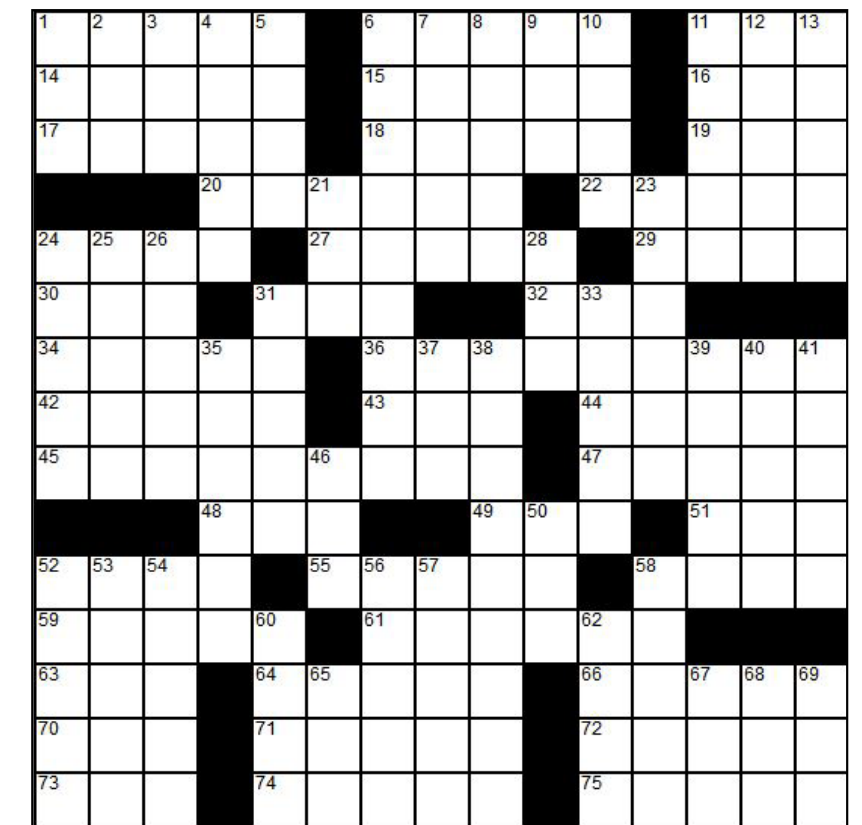
CMSgt, Jacob N. Messina
Superintendent, 51st Aircraft
Maintenance Squadron

eyes of him who takes his stand in love, and gazes out of it, men are cut free from their entanglement in the bustling activity.” Conceiving love as a responsibility means seeing beyond one’s personal needs and serving others in need of care, protection, and help.

As proposed by Buber, the metaphysics of love takes a stand on matters of the heart, much like an Airman who fights to restore peace, engages in active military maneuvers to ensure order, and fulfills professional commitments in the face of personal sacrifices to serve the nation. Whether an Airman is the last one standing or someone who gives up his or her life for the country, love takes on a more significant meaning and purpose in the military. Combatants, veterans, Airmen on active duty...there are so many terms to define unwavering commitment on the part of a single individual to give up so much of his or her life to save others and serve the nation. Buber, similarly, sees love not as a bond but as a form of liberation. Love is not an entrapment (nor should it ever be). It is, however, a unique force that can set one free. Similarly, serving the nation and placing one’s life in the hands of fellow Airmen, and trusting one’s leaders and commanders is what shapes love as a real force that unites the US Air Force. Protecting American citizens’ lives and liberties is not solely a military agenda, but an expression of the deep dedication US military forces share. We unite to combat enemies of the state to shield the entire nation, and love as responsibility has everything to do with it!

The Crossword

By Jon Dunbar



ACROSS

- 1 Seongnam neighbor
- 6 Alcove
- 11 Hoover or Cheongpyeong
- 14 ___ Gay bomber
- 15 To no ___
- 16 Filmmaker Boll
- 17 Undress
- 18 Brains
- 19 ___ Ki-moon
- 20 918-1392 dynasty
- 22 Lotte Mart competitor
- 24 Japanese noodle
- 27 Opposite of had
- 29 Seoul Metro Line 4 terminus
- 30 Zilch
- 31 Local currency
- 32 Jacobs and Allmendinger
- 34 Computer programmer
- 36 Pump attendant

- 42 "Skyfall" singer
- 43 Gwang-jo and Sumi
- 47 Anticipate
- 48 Panmunjeom site
- 49 Japanese drama style
- 51 Pale booze
- 52 Largest continent
- 55 Waegwan neighbor
- 58 Clare or Fowler
- 59 Raw fish meal
- 61 Adage
- 63 Goes with Shallow or 9000
- 64 Japanese soybean dish
- 66 Zones
- 70 The day before
- 71 Dangerous gas
- 72 Subway
- 73 Fisherman's tool
- 74 G-string
- 75 Burns

DOWN

- 1 Opposite of she's
- 2 Colony insect
- 3 Neither ___
- 4 Adjust
- 5 Western Seoul district
- 6 Guri neighbor
- 7 Covered in vines
- 8 Nikon competitor
- 9 Concealed
- 10 Or ___
- 11 UAE city
- 12 Prize
- 13 Jamaican musical style
- 21 Greek letter
- 23 Russian capital
- 24 Open a vial
- 25 Semiconductor
- 26 The ___ days
- 28 ___ Mahal
- 31 Small brown birds

- 33 Hill or Hex
- 35 Actor Wood
- 37 1990s www connection
- 38 Hyundai competitor
- 39 Jazz pianist Diana
- 40 Actress VanCamp
- 41 Cassie or Lucky
- 46 Not happy
- 50 Opposite of non
- 52 Covered in soot
- 53 Smooth
- 54 Like Dokdo
- 56 Jetsons dog
- 57 Not go to a restaurant
- 58 Concur
- 60 Inc. alternative
- 62 Leonardo or Eric
- 65 Doctor wants to hear this
- 67 Rendezvous info
- 68 Pirate utterance
- 69 Distress call

Answers to Previous Crossword

ACROSS

- 1 OFA
- 4 SOB
- 7 OUR
- 10 RAJ
- 13 FRIGATE
- 15 USA
- 16 EDS
- 17 FIREFIGHTER
- 19 AOA
- 20 TESSA
- 21 EARP
- 23 MOSS
- 26 KIA
- 29 LETO
- 31 CPU
- 32 ANTICS
- 35 ACED

DOWN

- 2 OFF
- 3 AIR
- 4 SAFE
- 5 OTIS
- 6 BEGS
- 7 OUT
- 8 USE
- 9 RARE
- 10 REARECHELON
- 11 ADOPTEE
- 12 JSA
- 14 GETS
- 18 HAKIM
- 22 ALARM
- 23 MCU
- 24 OPS
- 25 SUBORDINATE
- 27 ICICLE
- 28 ASTRAY

30 ODE

- 32 AHN
- 33 NECTAR
- 34 TREATY
- 40 UNION
- 42 ISU
- 43 CAT
- 44 EURASIA
- 46 BRUNT
- 48 PRO
- 49 SEW
- 55 SLOB
- 57 EBAY
- 59 ALPS
- 60 VERA
- 61 ATOM
- 62 TNT
- 64 AGE
- 65 TON
- 66 ALL
- 67 DEE
- 68 SME



A U.S. Air Force B-52 Stratofortress assigned to the 2nd Bomb Wing departs after receiving fuel from a KC-135 Stratotanker, assigned to the 340th Expeditionary Air Refueling Squadron, during a multi-day Bomber Task Force mission over Southwest Asia, Dec. 10th, 2020. The B-52 is a long-range bomber with a range of approximately 8,800 miles, enabling rapid support of BTF missions or deployments and reinforcing global security and stability. (U.S. Air Force photo by Staff Sgt. Trevor T. McBride)



Military working dog Brutus, 51st Security Forces Squadron bites a simulated perpetrator during a demonstration at Osan Air Base, South Korea, Dec. 3, 2020. Brutus patrols the base and performs regular sweeps. (U.S. Air Force photo by Senior Airman Noah Sudolcan) ▲

Two U.S. Air Force F-16 Fighting Falcons, assigned to the 77th Expeditionary Fighter Squadron, fly in formation with two Royal Saudi Air Force F-15E Strike Eagles, after receiving fuel from a KC-135R Stratotanker, assigned to the 50th Expeditionary Aircraft Refueling Squadron, during a routine exercise over Southwest Asia, Dec. 15, 2020. U.S. Air Forces Central Command continues to build and strengthen regional partners by training alongside one another, integrating capabilities and increasing interoperability to project agile combat employment from established and austere locations throughout the U.S. Central Command area of responsibility. (U.S. Air Force photo by Staff Sgt. Taylor Harrison) ▼



Minot Air Force Base Honor Guard members prepare to present the colors during a ceremony, Dec. 15, 2020 at Minot Air Force Base, N.D. U.S. Navy Rear Adm. William W. Wheeler III, U.S. Strategic Command chief of staff, visited Minot AFB to present the Omaha Trophy to both the 91st Missile Wing and the 5th Bomb Wing. (U.S. Air Force photo by Airman 1st Class Jesse Jenny) ▲



James Pickens, 502nd Force Support Squadron vehicle control officer, volunteering as Santa Claus, listens to a safety briefing before the Christmas parade, Dec. 2, 2020 at Joint Base San Antonio-Lackland, Texas. JB San Antonio-Lackland kicked off the Christmas festivities with a tree-lighting ceremony. The tree-lighting ceremony marks the beginning of the Christmas season at the installation. (U.S. Air Force photo by Sarayuth Pinthong) ►



A military training instructor, center, stands in front of his flight during a basic military graduation and coining ceremony Dec. 10, 2020, for the 320th Training Squadron at the Pfingston Reception Center on Joint Base San Antonio-Lackland, Texas. Approximately 39,000 Airmen graduate BMT annually to meet force requirements around the world, fueling the Air and Space Force. Since the beginning of COVID-19, the Air Force has safely and successfully graduated 8,510 Airmen. (U.S. Air Force photo by U.S. Army Sgt. Jose Torres Jr.) ▲

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 spe-

cific 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

MAIN GATE TAXI STAND RELOCATION:

The AAFES Taxi stand at the main gate will be moving to the north side of Songtan Blvd (alongside Carolina Rd) starting 9 Dec and lasting to 23 Dec. Pedestrians are urged to use caution when crossing Songtan Blvd and walking past the active construction entrance.

ROLLER DERBY:

Do you like to skate? Want to learn how to skate? Or learn how to play roller derby? Message us for more info on our page at <https://m.facebook.com/OHDerbyKorea/?ref=bookmarks>

AIR FORCE VIRTUAL EDUCATION CENTER:

The new Air Force Virtual Education Center (AFVEC) is currently working intermittently Air Force wide. Please be patient & keep trying to access it. When accessing AFVEC or trying to get MilTA approval in AFVEC from your supervisor, use Google Chrome or Microsoft Edge. Please contact the Education Center at 784-4220 or 51fss.fsde@us.af.mil for further questions/concerns. Thank you!

AFCEA HOSTED GUEST SPEAKER: 3D AFSC TRANSFORMATION:

AFCEA is hosting guest speaker CMSgt Stephanie Chrisman for her discussion on the 3D to 1D AFSC transformation! Come by for a better understanding on the future of comm career fields in the Air Force. Also, network with the many commu-

nications career fields scattered across Osan Air Base over hors d'oeuvres & open bar sponsored by some of AFCEA's industry partners.

2020 51 FW ANNUAL AWARDS BANQUET:

The 2020 51 FW Annual Awards Banquet Committee is looking for volunteers to assist multiple sub-committees with fundraising, organizing, and logistics planning for the event. We request all volunteers have a Deros no earlier than Feb 21. This is a great opportunity to get involved with a Wing level event!

FY20 COMBINED FEDERAL CAMPAIGN:

This year's campaign will run from 12 Oct 2020 – 15 Jan 2021. The campaign inspires federal employees to engage, support, and make a difference through their charitable contributions as an extension of their valuable service. Contact unit Key workers for more info and make your donation today! Let's Show Some LOVE Osan! Give online at <https://cfcoverseas.givecf.org/>

OSAN AB RESTRICTED AREA BADGE MASS RE-ISSUE:

The Osan AB mass Restricted Area Badge re-issue will start 1 Nov 2020 and end 1 Mar 2021. Please make contact with your Unit Security Manager for details. (Members with a Deros 31 Dec 20 and earlier, will not be issued a new badge)

COMBINED FEDERAL CAMPAIGN-OVERSEAS KICK OFF:

This year's campaign will run from 12 Oct 2020 – 15 Jan 2021. The campaign inspires federal employees to engage, support, and make a difference through their charitable contributions as an extension of their valuable service. Please contact your UNIT KEYWORKERS for more information on making your contribution now.

OSAN AB RESTRICTED AREA BADGE MASS RE-ISSUE:

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OSAN BASE HONOR GUARD "TO HONOR WITH DIGNITY":

Are you or someone you know highly motivated, dedicated to excellence, and want to be among the sharpest? If the answer is yes, the Osan Air Base Honor Guard Team welcomes you! For more information please contact Program Manager SSgt Akin Hyde at 784-1091 or via email akin.hyde@us.af.mil.

MUNITIONS 100 PERCENT INVENTORY:

Ammo will be conducting a 100 percent wall-to-wall inventory of our stockpile. During this time, manning will be strained, so please be sure that

all custody issues, expenditures and turn-ins are submitted at least a week prior to the start of this inventory.

SLEEP OPTIMIZATION CLASS:

Feeling run down? Need more ZZZzzz's in your life? Come to the Sleep Optimization Class held every Tuesday from 0900-1000 in the Mental Health Clinic. Open to Active Duty/adult dependents/civilians/contractors. For more information or to register, call 784.2148...registration is encouraged but not required.

STRESS MANAGEMENT CLASS:

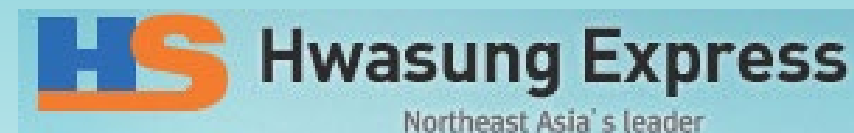
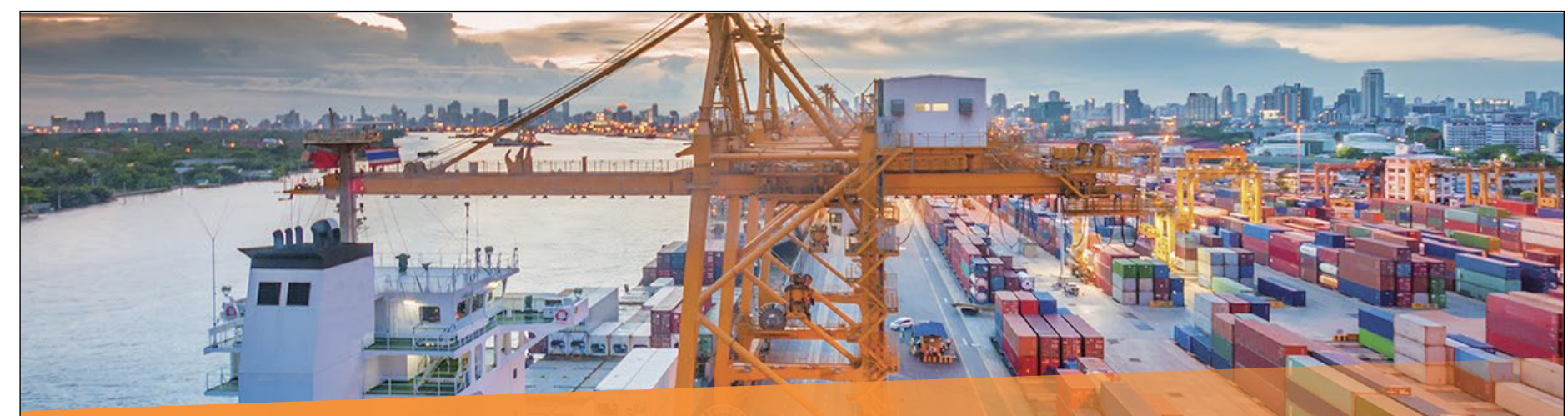
Does your head hurt? Are your muscles tense? Irritated around others? Could be signs of stress. Come to the Stress Management Class held every Wednesday from 0900-1000 in the Dental Conference Room. Open to Active Duty/adult dependents/civilians/contractors. For more information or to register, call 784.2148...registration is encouraged but not required.

HEALTHY THINKING CLASS:

Want to be the best version of You? It all starts in your head! Come to the Healthy Thinking Class held every Wednesday from 1000-1100 in the Dental Conference Room. Open to Active Duty/adult dependents/civilians/contractors. For more information or to register, call 784.2148...registration is encouraged but not required.

Kunsan's emergency phone numbers			
Emergency Services	911		
Off Base/Cell Emergency	063-470-0911	Nurse Advice Line	1-800-723-8255
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)	

Osan's emergency phone numbers			
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



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Dr. Gina Sohn - U.S. Dentist Licensed to practice in Massachusetts, Conneticut & New Jersey. Tufts Graduate..., the Smile Artist!

- Graduate of Tufts University, School of Dental Medicine – Boston, Mass.
- Studied at University Paris 5 (Rene Descartes).
- Orthodontics - trained at USDI.
- NYU Trained for Implant Dentistry.
- Fluent in English, Korean, Japanese & French.



Services

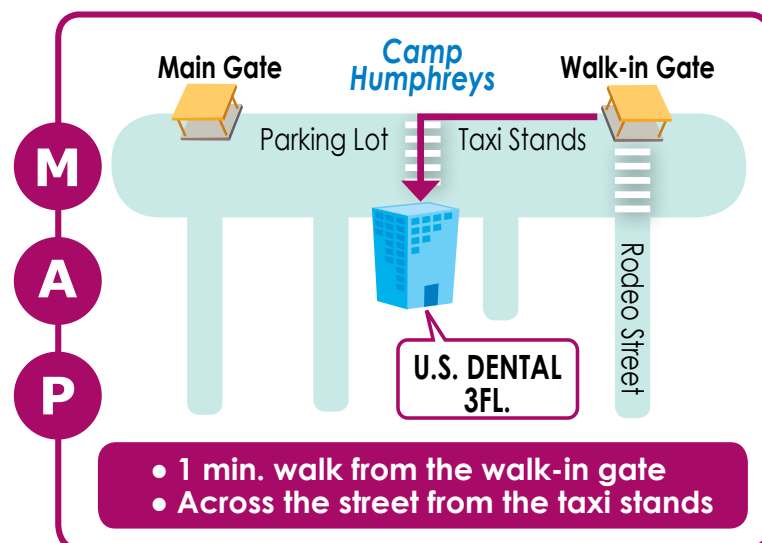
- Cleaning & Check-up, General Dentistry
- Orthodontics: Braces & Invisalign
- Cosmetic Dentistry & Smile Makeover, Whitening, Veneers / Lumineers, Gummy Smile Correction
- Dental Implants
- Root Canal & Wisdom Tooth Extraction
- Child Dental Care

Professional Affiliations

- American Dental Association
- Massachusetts Dental Society
- Connecticut State Dental Association
- New Jersey Dental Association
- American Academy of Cosmetic Dentistry
- American Academy of Implant Dentistry
- American Academy of Pediatric Dentistry

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**Find us on Facebook: Dr. Gina Sohn
- Cosmetic Dentist in Seoul**

< Continued from front page >

The initial distribution to USFK was limited in quantity but within DoD's phased delivery approach to ensure frontline healthcare workers and first responders, who are at risk of being exposed daily, were prioritized to receive the vaccine first.

The Moderna COVID-19 vaccine arrived in South Korea on Dec. 25 at Incheon Airport, and after clearing customs, was ground delivered to the United States Army Medical Material Center Korea at Camp Carroll the same day. It remained in cold-storage there until Dec. 28 when it was ground delivered to the three medical treatment facilities at Humphreys, Osan and Kunsan.

Following this initial phase of inoculations, additional vaccine shipments will arrive on-peninsula as Moderna, and potentially other FDA-authorized vaccines, are produced and shipped to USFK. These vaccines will be made available for those eligible and who choose to receive it.

"While we await additional shipments of the vaccine, I ask that our community remains patient and flexible," said Abrams. "The COVID-19 vaccine is another tool that will help USFK maintain a robust combined defensive posture and our 'Fight Tonight' readiness approach."



U.S. Air Force Senior Airman Shaneshia Lindsey, 51st Medical Support Squadron medical materiel technician, unpacks COVID-19 vaccines at Osan Air Base, Republic of Korea, Dec. 28, 2020. Patients will be administered two doses, separated by 28 days, in accordance with the U.S. Food and Drug Administration and manufacturer medical guidelines. (U.S. Air Force photo by Staff Sgt. Betty R. Chevalier) ▲



U.S. Air Force Capt. Cindy Fernandez, 51st Operational Medical Readiness Squadron physicians assistant, prepares the Moderna COVID-19 vaccine at Osan Air Base, Republic of Korea, Dec. 29, 2020. Team Osan will deliberately identify high-risk personnel in accordance with Centers for Disease Control and Prevention, Department of Defense, U.S. Air Force, and U.S. Forces Korea guidance to reduce the burden of COVID-19 on our Airmen, Soldiers, Sailors, Marines, Space Operators, and their families. (U.S. Air Force photo by Staff Sgt. Betty R. Chevalier) ◀

U.S. Air Force Master Sgt. Gerald Allen, 51st Civil Engineer Squadron assistant chief of fire protection, receives the first dose of the Moderna COVID-19 vaccine at Osan Air Base, Republic of Korea, Dec. 29, 2020. The 51st Medical Group has developed a prioritized personnel distribution plan for members to voluntarily receive the vaccine beginning Dec. 29. They will continue to identify recipients in the future as more doses become available. (U.S. Air Force photo by Staff Sgt. Betty R. Chevalier) ▼



U.S. Air Force Senior Airman Cassidy Peters, 51st Medical Group emergency room technician, receives a dose of the Moderna COVID-19 vaccine at Osan Air Base, Republic of Korea, Dec. 29, 2020. Osan AB will identify and prioritize all personnel – military, civilian, and retirees – according to the Department of Defense and United States Forces Korea distribution plan and distribute the vaccines appropriately. (U.S. Air Force photo by Staff Sgt. Betty R. Chevalier) ◀

Spiritual Charge

Reinhold Niebuhr



By Chaplain, SMSgt. Oscar Rivera

Reinhold Niebuhr was one of America's leading public intellectuals of the 20th century and received the Presidential Medal of Freedom in 1964. I was not familiar with him, but have often seen one of Niebuhr's popular writings on the topic of change. It's called the 'Serenity Prayer' and you may have heard it before. In a nutshell, the

point of the prayer is that in life, there are some things you can change and there are other things outside of your control. We need discernment to know the difference.

It is often said people are creatures of habit, resistant to change. You, like me, probably hang on to old jeans or old shoes which should no longer be worn. Whenever I buy a new shirt, I quickly see my plight if I wear it with tattered jeans and aged shoes - still poorly dressed.

Thankfully, dress appearance is easy to fix, like many things about our personal lives which simply require us to take action. However, some changes occur outside of our control. I am referring to things that are real, undeniable, and which cannot be ignored.

As military members, we are periodically affected by PCS moves, joining a new unit, or integrating new teammates. Whether expected or unexpected, new seasons of life come upon

us quite often. It could be a new position, new responsibilities, retirement, a new family addition, loss of a loved one, loss of possessions, or even a global pandemic. Reminds me of the saying: change is the only constant in life.

We often like things to remain as we have become accustomed. Yet, unexpected change does not ask us for permission. It just comes upon us. We can try to ignore it, and remain incompatible to the change. This would result in our loss of both: what once was but no longer remains; and what could be if we align ourselves to the new reality, like that new shirt which calls for new jeans. A long time ago, the religious leader Jesus was quoted as saying, "No one sews a piece of unshrunk cloth on an old garment; or else the new piece pulls away from the old, and the tear is made worse." Hanging on to the old things of life, which are really gone, would cost us the future.

However, some things never

change. For example, although airplanes and their capabilities have vastly improved since the time of the Wright brothers, aerodynamics and the laws of physics remain the same. If you want to fly, you need lift. Another example, is the U.S. Constitution. Although it was written more than 200 years ago, it continues to protect the rights of all Americans.

We need to honor unchanging realities and principles. For all things unchanging, the Air Force Core Values serve well - Integrity First, Service before Self, and Excellence in All We Do.

In times of change, we must be willing to release the past. We must also be willing to become compatible to new realities while honoring timeless realities. As Reinhold Niebuhr wrote, we can enjoy serenity during change: by accepting the things we cannot change; by courageously changing the things we can; and by wisely differentiating between the two - That's freedom!

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, 1:00 p.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

Community Service

Sundays @ 10:00 - Main Chapel

Gospel Service

Sundays @ 11:45 - Main Chapel

Catholic Services

Tuesday-Thursday-

Mass, 11:30 @ Main Chapel

Saturday (Sunday Obligation)

Main Chapel

Confession @ 4:00

(Contact Ch Barna to schedule an appointment)

Mass @ 5:00 - Main Chapel

Sunday

Mass @ 8:15 - Main Chapel

Catholic Religious Education

Sunday- 9:45-10:45

For more information about other faith group services, please contact Osan chapel at

DSN 784-5000

Find us on the web @

<https://www.facebook.com/OsanABChapel>

HUMPHREYS

Protestant Services

Sundays -

9:00 a.m. Liturgical Service - PVC

9:30 & 11:00 a.m. Agape (Contemporary) - 4CMC

11:00 a.m. Common Ground (Traditional) - FRDC

10:00 a.m. Burning Bush (Gospel) - WRC

10:30 a.m. Church of Christ - PVC

11:00 a.m. Spanish Service - PVC

1:00 p.m. Apostolic Pentecostal Lighthouse Service - WRC

Wednesdays -

6:00 p.m. KATUSA Service - PVC

The Church of Jesus Christ of Latter-Day Saints (LDS)

Sundays -

2:00 /3:15 p.m. Sacrament Meeting - FRDC

2:30-3:30 p.m. Sunday School - FRDC

3:30-4:30 Unaccompanied/Single SMs Meal - FRDC

POC: CH Brizzee 010-8921-1736; tyler.f.brizzee.mil@mail.mil

Catholic

Saturday, 3:00-5:00 p.m. Adoration - FRDC

Saturday, 3:30-4:30 p.m. Reconciliation/Confession - FRDC

Saturday, 4:40 p.m. Rosary/Benediction - FRDC

Saturday, 5:30 p.m. Vigil Mass - FRDC

Sunday, 9:00 a.m. Mass - FRDC

M-F, 5:30 p.m. Mass - FRDC

Jewish

2nd & 4th Friday, 5:00 p.m. Shabbat Evening Service - 4CMC

POC: CH(Cpt) Daniel Kamzani daniel.j.kamzani.mil@mail.mil

Islamic

Friday, 12:00-13:00 p.m. Jumrah Service - PVC

Sunday, 1:00-3:00 p.m. Islamic/Arabic Classes - PVC

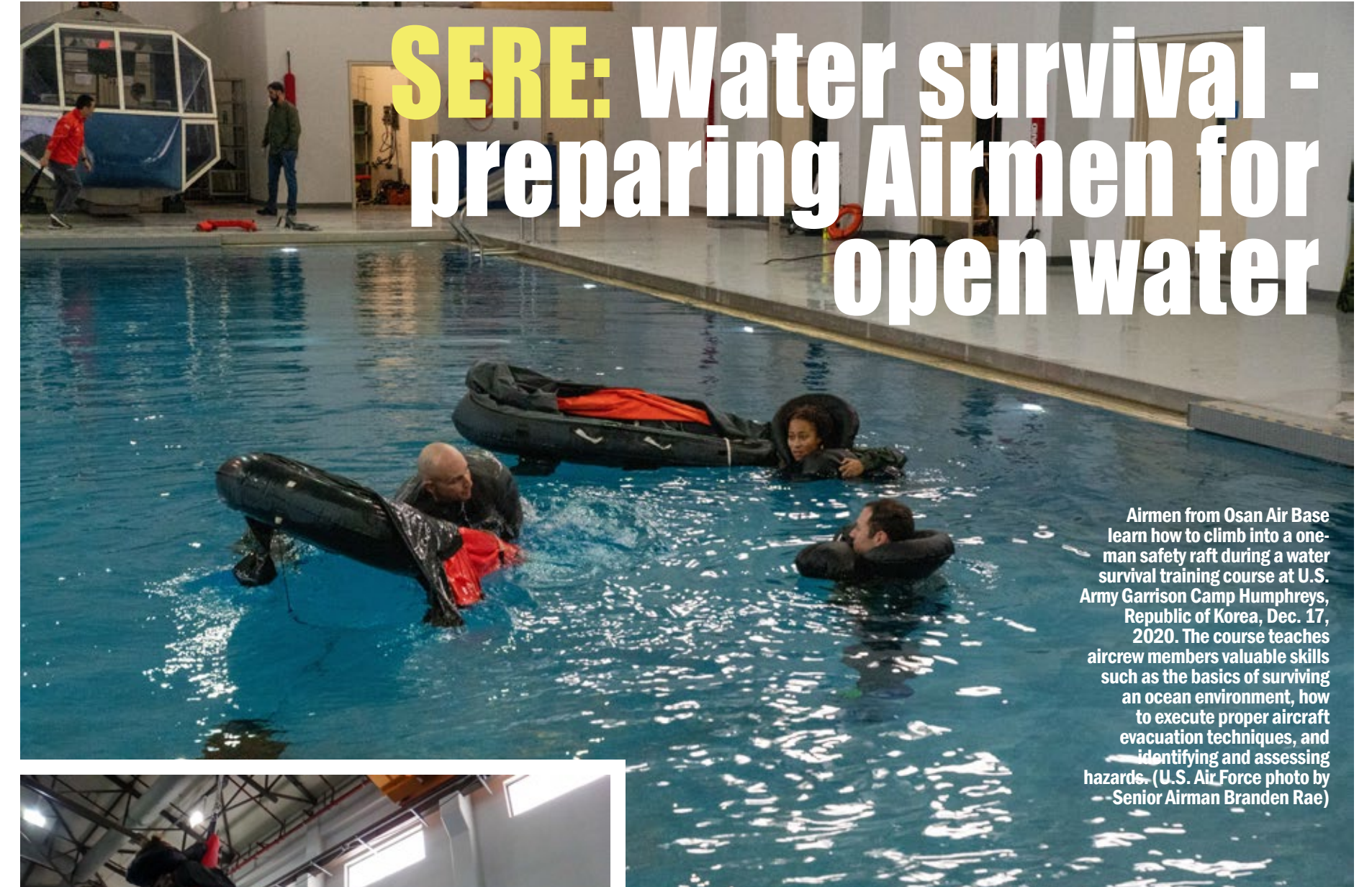
POC: Sfc. Kamel 010-8449-3024; mohammed.a.kamel.mil@mail.mil

Seventh Day Adventist

POC: Maj. Delavega 010-3917-6478; david.r.delavega.mil@mail.mil

Pagan

POC: Cpt. Emory Erickson emory.j.erickson.mil@mail.mil

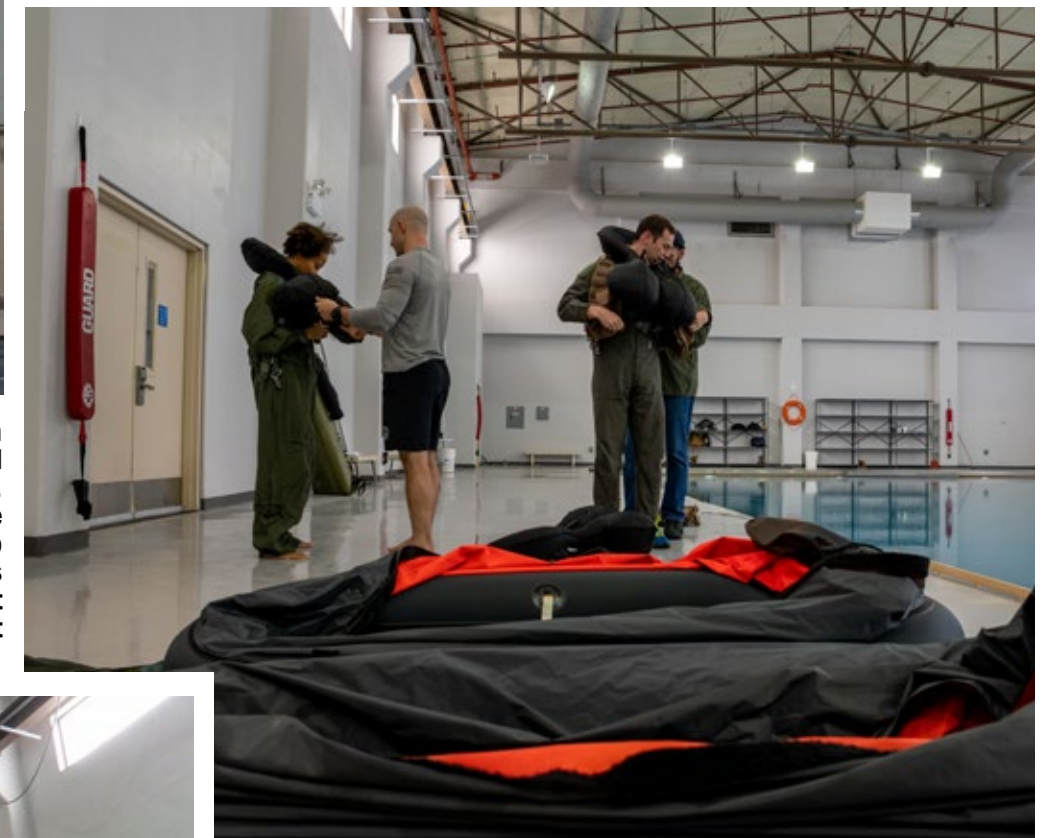


SERE: Water survival - preparing Airmen for open water

Airmen from Osan Air Base learn how to climb into a one-man safety raft during a water survival training course at U.S. Army Garrison Camp Humphreys, Republic of Korea, Dec. 17, 2020. The course teaches aircrew members valuable skills such as the basics of surviving an ocean environment, how to execute proper aircraft evacuation techniques, and identifying and assessing hazards. (U.S. Air Force photo by Senior Airman Branden Rae)



U.S. Air Force Tech. Sgt. Ryan Torres, 51st Operational Support Squadron Survival, Evasion, Resistance and Escape NCO in charge of training and operations, middle right, teaches how to release a parachute to Staff Sgt. Vanessa Bradley, 51st Operational Group unit training manager, middle left, during a water survival refresher course at U.S. Army Garrison Camp Humphreys, Republic of Korea, Dec. 17, 2020. The SERE refresher trainees learned how to effectively detach from a parachute during training that simulated being dragged through water by a parachute canopy that caught wind. (U.S. Air Force photo by Senior Airman Branden Rae) ▲



Airmen from Osan Air Base properly adjust their gear during a Survival, Evasion, Resistance and Escape water survival refresher course at U.S. Army Garrison Camp Humphreys, Republic of Korea, Dec. 17, 2020. SERE specialists provide information on where the basic resources to survive are located on the raft; which include tools such as a pop-up shelter, fishing hook and signaling devices. (U.S. Air Force photo by Senior Airman Branden Rae) ▲



U.S. Air Force Tech. Sgt. Ryan Torres, 51st Operational Support Squadron Survival, Evasion, Resistance and Escape NCO in charge of training and operations, middle right, teaches how to release a parachute to Staff Sgt. Vanessa Bradley, 51st Operational Group unit training manager, middle left, during a water survival refresher course at U.S. Army Garrison Camp Humphreys, Republic of Korea, Dec. 17, 2020. The SERE refresher trainees learned how to effectively detach from a parachute during training that simulated being dragged through water by a parachute canopy that caught wind. (U.S. Air Force photo by Senior Airman Branden Rae) ▲



Hammer, 375th Security Forces Squadron military working dog, sits next to the Ghost Robotics Vision 60 at Scott Air Force Base, Ill., Dec. 17, 2020. The Vision 60 robot's ultimate capability is to preserve life. (U.S. Air Force photo by Airman 1st Class Shannon Moorehead)

All byte, no bark for 'robotic K-9'

By Airman 1st Class Shannon Moorehead, 375th Air Mobility Wing Public Affairs

SCOTT AIR FORCE BASE, III. (AFNS) -- As a part of its one-year pilot program, the Ghost Robotics Vision 60 visited Scott Air Force Base during an evaluation of the robot's capabilities.

Heading the test was Air Combat Command's Agile Battle Lab. The lab identifies, validates and inserts new concepts and technology to enable Agile Combat Employment and its contributions to all-domain warfare.

The Vision 60 autonomous quadrupedal unmanned ground vehicle is an all-terrain, dog-like robot equipped with enhanced sensors.

"By no means is this meant to replace a real K-9," said Senior Master Sgt. Marcos Garcia, ACC Detachment 3 Agile Battle Lab, AMC liaison. "It is simply a force multiplier and can even maybe save some K-9 lives. The experts in the field envision it supplementing a bomb team or leading a foot patrol."

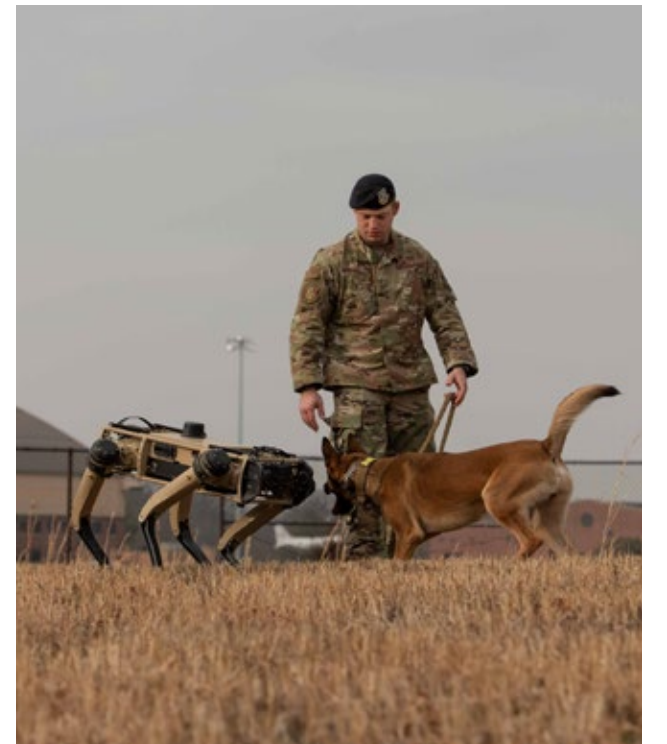
This innovative piece of machinery was created to be a low-cost, low-risk force multiplier. Ultimately, this program has the capability of protecting a life.

"The major selling point of this technology is that it's meant to be expendable, whereas



Airmen assigned to the 375th Security Forces Squadron function check the Ghost Robotics Vision 60 semi-autonomous robot dog before a demonstration at Scott Air Force Base, Ill., Dec 14, 2020. The robot dog utilizes an adaptive communication system allowing the machine to operate on a series of preset commands or when operated manually. (U.S. Air Force photo by Airman 1st Class Shannon Moorehead)

Staff Sgt. Carmen Pontello, 375th Security Forces Squadron military working dog trainer, and Hammer, 375th SFS military working dog, patrol through the Base Exchange with the Ghost Robotics Vision 60 at Scott Air Force Base, Ill., Dec. 17, 2020. The 375th SFS conducted a field test of the Vision 60 to compare its capabilities to a military working dog. (U.S. Air Force photo by Airman 1st Class Shannon Moorehead) ▼



Staff Sgt. Carmen Pontello, 375th Security Forces Squadron military working dog trainer, introduces Hammer, 375th SFS military working dog, to the Ghost Robotics Vision 60 at Scott Air Force Base, Ill., Dec. 17, 2020. The Vision 60 resembles a K-9, but is not designed to replace MWDs. (U.S. Air Force photo by Airman 1st Class Shannon Moorehead) ▲

our Airmen are not," said Master Sgt. Justin Hanlon, 375th Security Forces Squadron operations noncommissioned officer in charge. "We can replace parts on the ghost robot and get it back out to the mission, but the same cannot be said of a human being. The bottom line is this cements our commitment to mitigating risk to our Airmen and protecting them from unnecessary danger."

Equipped with integrated sensors, the Q-UGV can capture a high-definition video stream and thermal imaging, and boasts an infrared configuration. The Q-UGV also utilizes legs that can attain a current speed of seven feet per second and has been tested to outperform wheels, tracks and drones for certain uses in the field.

"Instead of using a human being as a sentry, imagine a mobile sensor with a high-definition, wide-angle camera and long-range capabilities being controlled by a trained Airman from the safety and security of a Base Defense Operations Center or a Theatre Operations Center in both a garrison or contested environment," Hanlon said.

During the evaluation at Scott AFB, the ABL sought the insight of force professionals on improvements to the robotic K-9.

"We are a team of motivated innovators and know we have many talented Airmen with great ideas," Garcia said. "We want to harvest those great ideas and bring them to fruition so we can bring our Air Force into the future."

While the implementation of this technology is still in its infancy, it has the latent ability to bring the Air Force into a new era of warfighting.

"The ghost robot has potential to aid the enterprise in getting away from the past where we had Airmen walk wingtip to wingtip on flying assets," Hanlon said. "We can employ our manpower smarter and more efficiently and this may be a small step to that competency."

As the Air Force looks to close gaps and move towards Agile Combat Employment and Joint All Domain Command and Control, the use of new innovative technology like the Q-UGV may become common across military installations as we seek to enhance mission effectiveness.



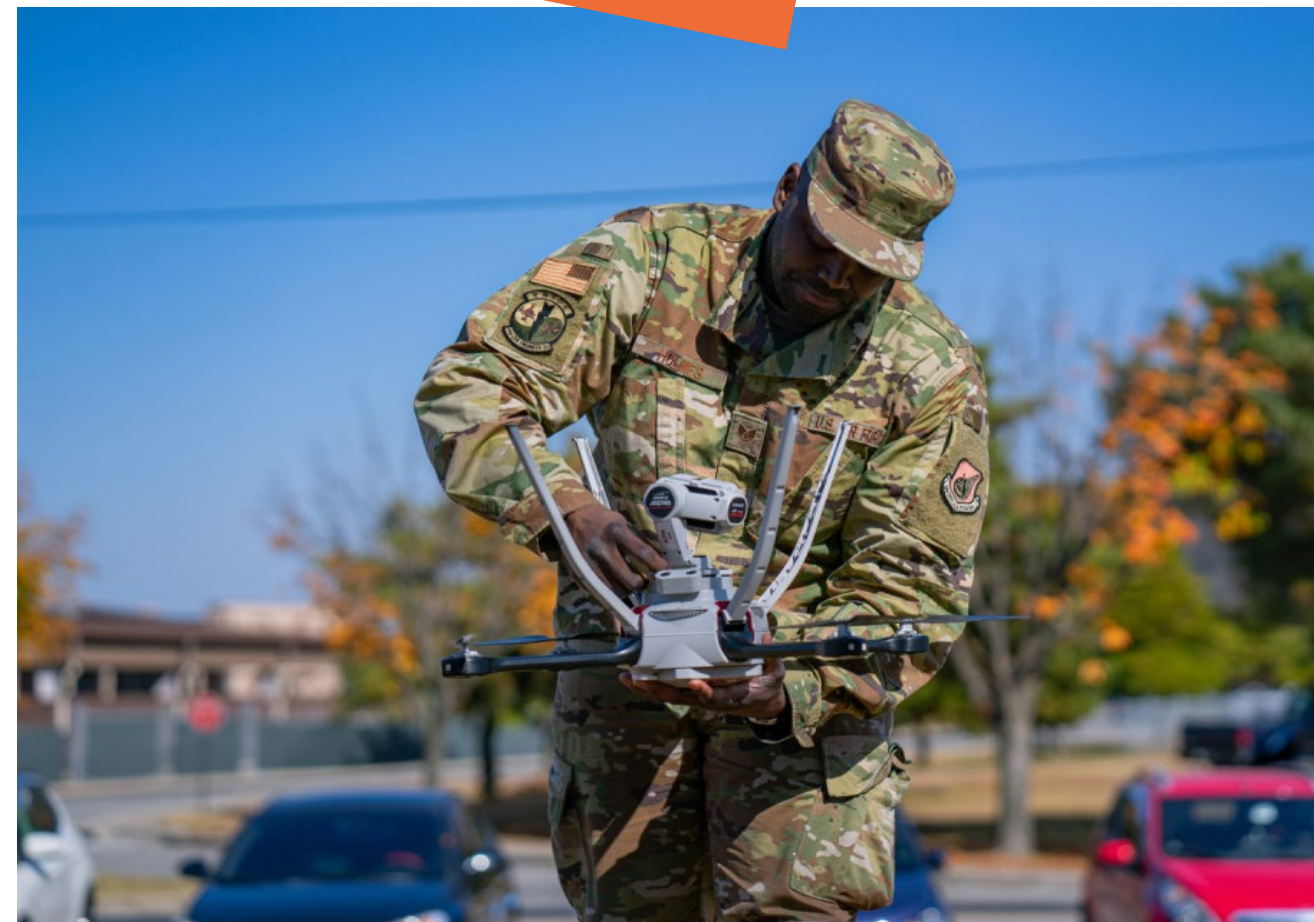
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Mongrels Find Air Space with Unmanned Roof Inspections



A 51st Civil Engineering Squadron drone inspects the roof of the former Safety Office at Osan Air Base, Nov. 2, 2020. The building's roof was damaged during Typhoon Ling Ling in 2019, and the 51st CES takes special precaution to ensure the roof remains in serviceable condition with regular inspections. (U.S. Air Force photo by 1st Lt. Daniel de La Fé) ▲

Staff Sgt. Jason Holmes, 51st Civil Engineer Squadron construction inspector, prepares a roof inspection drone for launch outside of Osan Air Base's Turumi Lodge, Nov. 2, 2020. As the first Air Force unit to utilize drones to perform roof inspections, the 51st CES has made it possible for Airmen to perform their duties safely from the ground without risking rooftop falling hazards. (U.S. Air Force photo by 1st Lt. Daniel de La Fé) ◀

Staff Sgt. Jason Holmes and Senior Airman Clara Song, 51st Civil Engineer Squadron construction inspectors, operate drones to inspect roofs across Osan Air Base, Nov. 2, 2020. The two set an Air Force benchmark by reducing the inherent dangers associated with the roof inspection process through the use of drones to perform the annual duty. The 51st CES worked closely with the 51st Operations Support Squadron to ensure the continued safety of the airfield while operating the non-standard procedure. (U.S. Air Force photo by 1st Lt. Daniel de La Fé) ▼



The 51st Civil Engineering Squadron launches a drone to perform a roof inspection outside of Osan Air Base's Turumi Lodge, Nov. 2, 2020. Specialized drones equipped with various camera sensors are being utilized to perform roof inspections across the installation to reduce work hours, remove safety hazards, and simplify the annual process. (U.S. Air Force photo by 1st Lt. Daniel de La Fé) ▲

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