



US Army Corps
of Engineers®
Far East District

EAST GATE EDITION

MAY 2014 VOL. 23, NO. 6

District providing healthy water to customers for nearly 50 years

By **Stephen Satkowski**
FED Public Affairs

Shelter, water, oxygen, food and sleep are the five basic survival needs of human beings. The Far East District provides two of those five needs as they supply not only shelter, but also an adequate and dependable supply of clean water to servicemembers in the republic of Korea.

The district maintains 149 active wells across 25 U.S. military installations on the Korean peninsula. These wells provide approximately six million gallons of water per day and range in depth from 40 to 1,050 feet. O Chin-sok, chief of the water well services section, said taking care of all these wells is not for the faint at heart.

“Our job is year-round. Our team is out there in the heart of summer and the dead of winter making sure United States Forces Korea has an ample and healthy water supply,” he said.

The water well section, which includes environmental and civil engineers and geologists, dug its first well in Korea in 1967 at the Joint Security Area along the Demilitarized Zone.

Maintaining wells that are nearly 50 years old can be a tricky job said Shin Hyun-jun, environmental section geologist.

“After some time the water wells

can be contaminated,” he said. “That’s why we do preventative maintenance. We’ll replace pumps and piping if needed and we’ll check for mold and bacteria and sanitize the wells.”

The district develops about one new water well each year.

“Each new well must be able to produce 50 gallons of water per minute,” said O.

Due to environmental or health hazards not every installation in Korea can get their water from wells. However, it is beneficial because it makes United States Forces Korea more self sufficient and a better steward of taxpayer’s money.

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Members of the Far East District water well services section perform pump installation at U.S. Army Garrison Humphreys. (FED file photo)

District employees support STEM



First Lt. Elyse Vail, Korea Program Relocation Office (KPRO) project manager and Capt. Justin McMillan, also a KPRO Project Manager, make paper gliders with 5th grade students at U.S. Army Garrison Humphreys Central Elementary School April 17. This presentation was part of the U.S. Army Corps of Engineers and the Department of Defense Schools Korea District education partnership agreement. The partnership centers on support for the science, technology, engineering, and mathematics initiative. (FED file photo)

More photos on Page 6



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www.pof.usace.army.mil

District providing healthy water to customers for nearly 50 years

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“It’s smart to depend on your own water supply in case there is a problem with the city water outside the installation,” said Shin. “Also, since we are providing our own water we don’t have to pay the city,”

Wells on the installations are connected to water treatment plants where

the water is treated for use. The water well services section, geotechnical and environmental engineering branch carries out this mission in both armistice and mobilization conditions.

Members of the Far East District water well services section perform water well drilling at U.S. Army Garrison Humphreys. (FED file photo)

How do you know where to dig a well?

Geologists at the Far East District determine the best location to drill a well based on field studies of specific rock types and major fracture zones in the earth. These zones provide pathways of groundwater in bedrock.

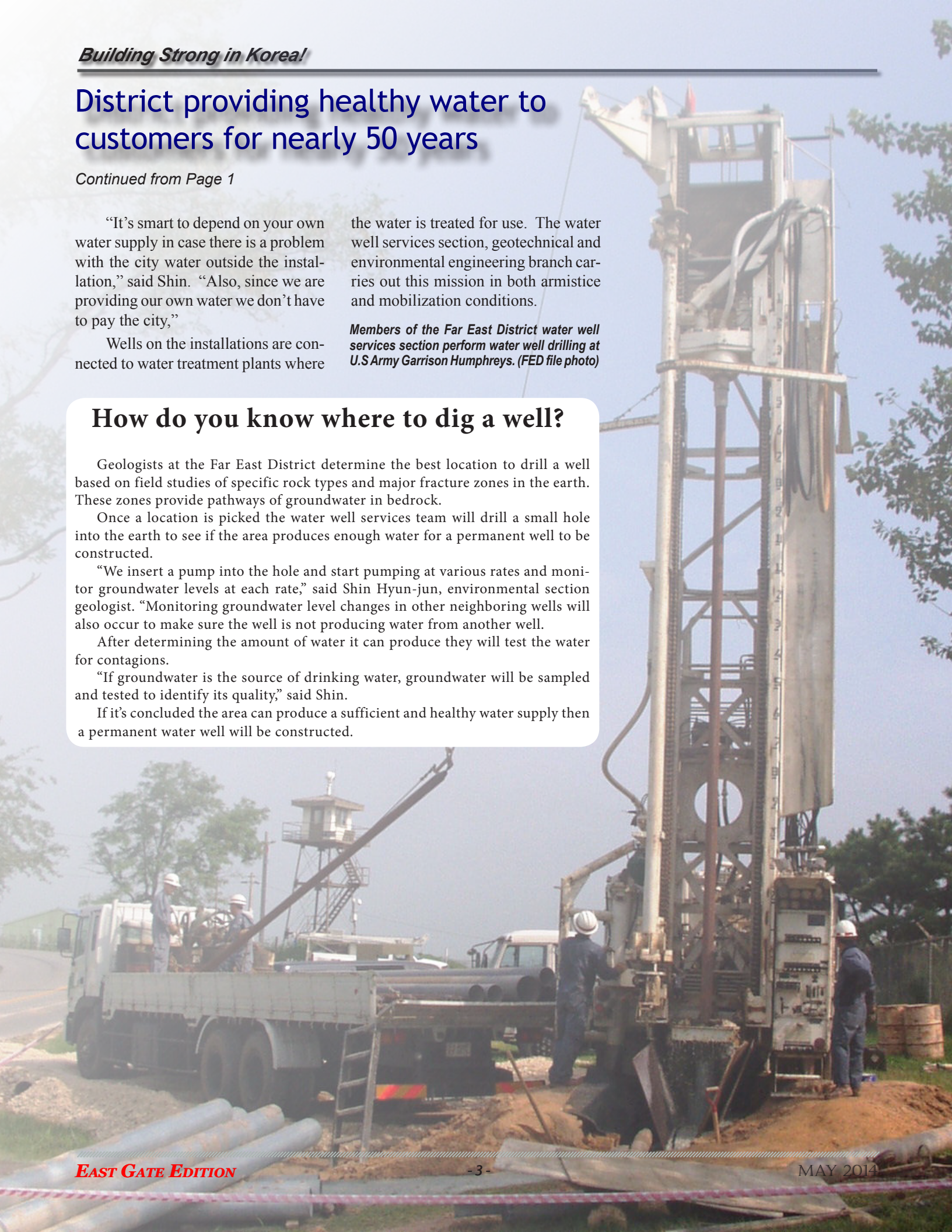
Once a location is picked the water well services team will drill a small hole into the earth to see if the area produces enough water for a permanent well to be constructed.

“We insert a pump into the hole and start pumping at various rates and monitor groundwater levels at each rate,” said Shin Hyun-jun, environmental section geologist. “Monitoring groundwater level changes in other neighboring wells will also occur to make sure the well is not producing water from another well.

After determining the amount of water it can produce they will test the water for contagions.

“If groundwater is the source of drinking water, groundwater will be sampled and tested to identify its quality,” said Shin.

If it’s concluded the area can produce a sufficient and healthy water supply then a permanent water well will be constructed.



Building a bridge to an exciting engineering future

By Stephen Satkowski
FED Public Affairs

The U.S. Army Corps of Engineers Far East District and Seoul American Middle School partnered for the second consecutive year to hold a toothpick bridge design competition.

Joined by Osan American Middle School students, the competition aims to encourage progress in the science, technology, engineering and mathematics (STEM) field.

“What I find with my students in the STEM field is that they don’t know where to start and they get stuck in the middle and can’t see the end,” said Sheva Wilkins, applied technology teacher at Seoul American Middle School. “I’m helping them along the way.

Wilkins, who organized the competition, said projects such as these can at first seem daunting, but they help the students gain awareness of STEM related fields.

“And once they get it they are so excited. At first they complain about it, but when they are bringing those bridges

in they are excited,” said Wilkins. “So I think that it really does spur in them that they can do it.”

For the students it was a fun experience and an exciting way to learn about the engineering field.

“I’ve done it three years in a row and I definitely want to keep doing it because every time I get better and better,” said Maggie Johnson, a seventh grade student at Osan American Middle School. “It’s really interesting to see how far you can go with toothpicks and glue.”

“I like building things and working with others so I enjoyed this project,” said Kim Min-sung, also an Osan American Middle School seventh-grader.

District engineers judged the students on best architectural design, strongest bridge, most efficient and best overall design.

Continued on the next page

Kim Min-sung (front left), Kara Ohler, Jeremy Sumpter and Austin Barberree, pose with Far East District engineers as they accept their certificates for winning this year’s toothpick bridge competition for best overall design. (Photo by Stephen Satkowski)



Building a bridge to an exciting engineering future

Continued from the previous page

Kim Min-sung, Kara Ohler, Austin Barberree, and Jeremy Sumpter won this year's competition for best overall design.

Osan American Middle School teacher Thomas Carlin said he was grateful his students had the option to compete

this year and felt the competition was educational for everyone.

"If you don't win anything at least it's a learning experience. That's what we're here for," said Carlin.



(Photos by Stephen Satkowski)

District employees support STEM

Continued from Page 2

(right) David Talbot, (sitting) family housing resident engineer, teaches children from Humphreys Elementary school about weight distribution as part the U.S. Army Corps of Engineers and the Department of Defense Schools Korea District education partnership agreement. The partnership centers on support for the science, technology, engineering, and mathematics initiative.



(left) Bernie Thomson, deputy at Korea Program Relocation Office (left) and Misty Boykin (far right) Far East District architect at the “volume station” with Humphreys Elementary school children. The children got to conduct hands on calculations for volumes of various containers. (FED file photos)

Humphreys Middle-High School opens



A ribbon cutting ceremony for the U.S. Army Garrison Humphreys Middle-High School took place April 24. Another successful construction project by the U.S. Army Corps of Engineers Far East District! (Photos from Humphreys Flickr page)



U.S. Naval Forces Korea leaders visit FED project sites at Humphreys



Michael Burke (far right), Far East District's lead hospital project engineer, briefs Capt. Kurt Storey, assistant chief of staff for transformation, U.S. Naval Forces Korea (center) and Cmdr. Erik Karlson, Assistant Chief of Staff, Engineering, U.S. Naval Forces Korea, on the overall progress of the future medical and dental complex on U.S. Army Garrison Humphreys. The brief was part of a larger tour of district projects which also included the Eighth Army, Installation Management Command and Commander, Navy Region Korea headquarters building, vehicle maintenance facility and one stop processing center. (FED file photo)



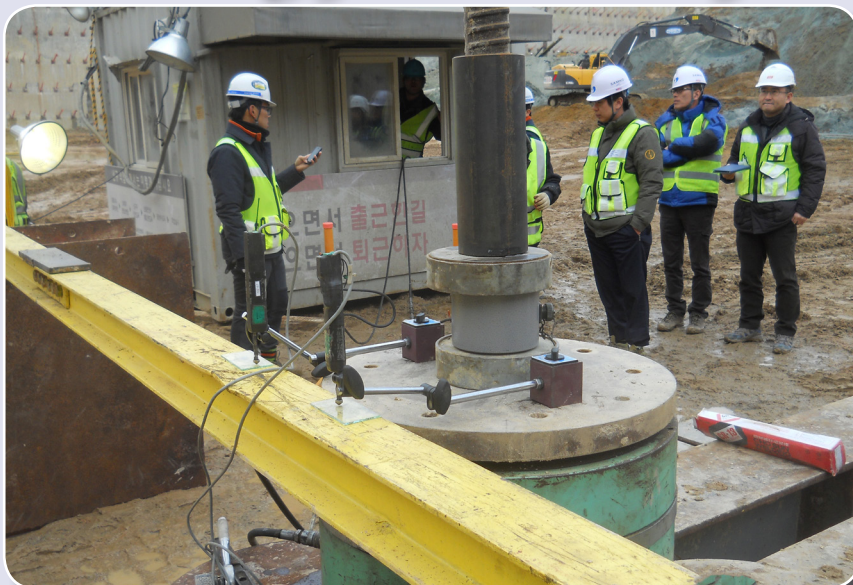
Congratulations to Robert Lamoureux of the U.S. Army Corps of Engineers Far East District security, plans and operations office, center, for his selection as the 2013 U.S. Army Garrison Yongsan Retiree Category Volunteer of the Year. Presenting the award is Republic of Korea-U.S. Combined Forces Command/U.S. Forces Korea chief of staff and 8th Army commander Lt. Gen. Bernard Champoux. Also from left are Yongsan Command Sgt. Maj. Robert Willing; U.S. Forces Korea Command Sgt. Maj. John Troxell; and garrison commander Col. Michael Masley. Among other things, Lamoureux is a boy scout leader with one of the area's local troops. (FED file photo)

MURO chief visits FED



Col. Bryan S. Green, commander and district engineer of the U.S. Army Corps of Engineers, Far East District presents retired Lt. Gen. Kim Kie-soo (right), chief director of Ministry of National Defense - United States Forces Korea with tokens of appreciation during his visit to the district compound, April 18. (Photo by Stephen Satkowski)

Testing for stability ensures success



Engineers from the U.S. Army Corps of Engineers Far East District Pyeongtaek Resident Office, Geotechnical Engineering Branch, and Daelim construction measure the pull-out capacity of building tension piles on one of the construction sites at U.S. Army Garrison Humphreys recently. The tests are being done to ensure that the required design capacities have been met. The testing phase of the process is nearing completion, which will allow for production pile installations to move forward. (FED file photo)

This month in FED History



US Army Corps
of Engineers
Far East District

East Gate Edition

SEOUL KOREA

VOL. III NO. 26 MAY 1985

Far East District hosts orphanage picnic

No one knows for sure what a child is thinking, but 90 kids from the Sung Ae Won Orphanage seemed to enjoy themselves at the Embassy Compound picnic area.

FED employees organized the event for the children and were blessed with a sunny day — the promised rain never materialized. When the kids arrived the activities and competition started; three legged races, back-to-back balloon popping races, balancing acts with spoons and marbles — but the most popular activity of the day was EATING! The meal, traditional American fare, Bar B Qued chicken, hamburgers, hot dogs, chips,

cookies, cakes and sodas were on the menu.

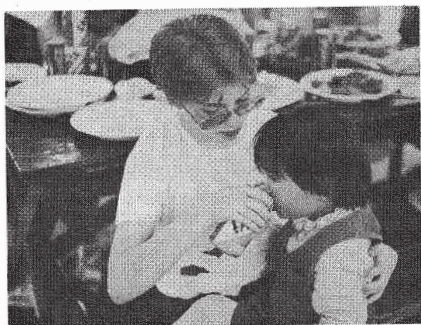
Once the food was consumed and the children began to tire, they all climbed aboard the two buses that brought them and waved good-bye. Many FED employees participated in the preparation and carrying out of the event.

Thanks to the many FED employees Sun Bun Bergeret, Dusty and Patty Boeckman, Sandy Jurkovich, Alvin and Betty Kam, Mike and Linda Maples, Kim Young Chin, Sharon Mumper, George and Jean Oelschlegel, Tim Phillips, Doris Quinene, Roger Rodriguez, Sam and Pat Testerman, Nancy Tullis, and Rick Ulrich

who attended the picnic and made an enjoyable day for all.

A very special thank you to teenagers Josephine Shimizu, Vicky Matthews, Keith Hamms, Melissa Mumper and Krista Mumper who gave up their Saturday to assist the FED orphanage-committee at the picnic. The teen group bridged the generation gap between the adults and the kids from Sung Ae Won Orphanage.

All the planning and and work were worth it, just to see all those happy faces. Thanks to all the very special people who continue to support us from all of us and the kids!



FED volunteers
assist children
with lunch.

Automation becomes a reality in Korea

The Far East District Corps of Engineers, Seoul, Korea has recently opened a new automation center. The center presently supports approximately 65 FED customers with automated information processing support.

Personnel and equipment moved into the facility over a weekend allowing minimal inconvenience and disruption to customer service. The new facility was back in operation within 48 hours due to the exceptional efforts of a few Korean National employees.

Installation of a logical communication switch, public network access, and communications link to 12 field offices is projected for completion by July. This will result in the FED network serving an additional 60 customers.

FED is presently linked to its sister district in Japan and Pacific Ocean Division via a commercial communication satellite.

Beginning this summer, the Defense Data Network will be phased in. This will be a better support system than is currently available. DDN is government controlled and users will have access to all other government agencies without using the expensive commercial route. Korea will have electronic access to the rest of the world.

At the start of this decade, the Corps of Engineers made a commitment to buy state-of-the-art communication/automation equipment to resolve a deficiency in automation support within the Corps.

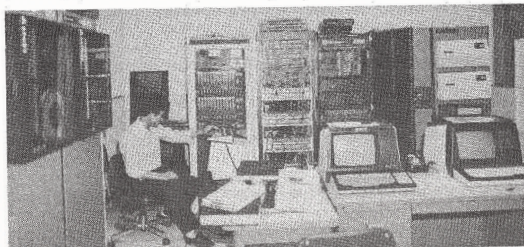
An Information Systems Plan/Implementation (ISPI) study and a Corps of Engineer

Automation Plan (CEAP) were developed as a five-year plan to further upgrade this support for the next decade. ISPI addresses the application of software support requirements and CEAP addresses the hardware requirements.

ISPI interviews have been conducted throughout the

Corps and will be addressed at each echelon for resolution of existing requirements as time and resources allow. FED workload accounts for 60 percent of the POD total requirement and is dependent on timely information support.

Automation has become a reality for the Corps in Korea.



ADP employee working at the new center.



EEO CORNER

“I Am Beyond.” Asian-Pacific American Heritage Month

FED Equal Employment Opportunity

Each May, the U.S. Army Corps of Engineers, Far East District celebrates and recognizes the challenges faced by Asian-Americans, Pacific Islanders, and Native Hawaiians and their vital contributions to the American story during Asian-Pacific American Heritage Month.

This year, the theme for the heritage month is “I Am Beyond,” a theme that evokes how these Asian-Pacific Americans have crossed boundaries and barriers, how we shape the nation and its future.

“I Am Beyond” recalls Dalip Singh Saund becoming the first Asian-American Congressman in 1957 after campaigning for the rights of all Asian immigrants to become naturalized U.S. citizens; it recalls the dedicated civic service of Patsy Mink, first woman of color and first Asian-American woman elected to Congress, a woman who was an advocate for equal opportunity in education; it recalls the passionate service of Daniel K. Inouye, decorated World War II veteran and long-time Senator, whom President Barack Obama has called “a true American hero” and “my earliest political inspiration”; it echoes the new Smithsonian Asian Pacific American Center exhibition “Beyond Bollywood: Indian Americans Shape the Nation,” a vibrant celebration of the history, art, and culture of Indian immigrants and Indian Americans.

“I Am Beyond” captures Asian-Pacific American experiences across the nation and the American spirit that calls us to overcome barriers. This May 2014, “I Am Beyond” calls on the nation to come together and recognize the depth and breadth of Asian-Pacific America.

Please join us on May 20 at 2 p.m. in the Drill Rig Shelter as the Far East District recognizes the rich and complex past, present, and future of Asian-Pacific American communities.



UNION SPOTLIGHT

Bulguksa and Seokguram

Located on Mount Toham at Gyeonju city, North Gyeongsang province, the Bulguksa temple was constructed under King Gyeongdeok in 751 by Prime Minister Kim Dae-seong and was completed in 774 under the rulership of King Haegong. However in 1593, most of the constructions were burned down due to the Japanese invasion. After the war, only a few buildings such as the Geuknakjeon, Jahamun, and Bumyongru remained, but after an archeological investigation a restoration was conducted from 1969 to 1973 bringing Bulguksa to its current form.

Inside the temple, several national treasures such as Dabotap, Seokgatap, Cheongungyo and Baeungyo bridges that lead to Jahamun,

Yeonhwagyo and Chilbogyo bridges leading to Geuknakjeon are preserved. These national treasures help us catch a glimpse at how people were skilled with sculpturing stones during the Silla Dynasty. Also national treasures like the seated gilt-bronze Vairocana Buddha statue and the seated gilt-bronze Amitabha Buddha statue are a remembrance of the resplendent Buddhist culture during that time. Due to these reasons, on December 1995 they were designated as World Heritage along with Seokguram Grotto.

Seokguram is a grotto temple built during the Silla Dynasty. Its original name is "Seokbulsu", built by Prime Minister Kim Dae-seong in 751 during the 10th

year of the reign of King Geongdeok. Seokguram is an artificial grotto constructed of granite divided into a rectangular antechamber and round main room with a rotunda. Behind the statue is a large circle decorated with lotus. In the walls of the entrance are other figures such as the Palbusinjang, Inwang, and four heavenly kings. In the middle is the Sakyamuni Buddha figure that is 3.48-meter high is set surrounded by statues of bodhisattvas, disciples and eleven-faced Avalokitesvara. Inside the 10 altars near the ceiling are statues of Buddha and other gods. This elegant art is a representative piece of Korean Buddhist art.

불국사와 석굴암

대한민국 경상북도 경주시 동쪽 토함산에 자리잡은 불국사는 신라 경덕왕 10년(751)에 당시 재상이었던 김대성이 짓기 시작하여, 혜공왕 10년(774)에 완성하였다. 이후 조선 선조26년(1593)에 왜의 침입으로 대부분의 건물이 불타버렸다. 이후 극락전, 자하문, 범영루 등의 일부 건물만이 그 명맥을 이어오다가 1969년에서 1973년에 걸친 발굴조사 뒤 복원을 하여 현재의 모습을 갖추게 되었다.

경내에는 통일신라 시대에 만들어진 다보탑과, 석가탑으로 불리는 3층 석탑, 자하문으로 오르는 청운,백운교, 극락전으로 오르는 연화,칠보교가 국보로 지정·보존되어 있다. 이러한 문화재는 당시 신라 사람들의 돌을 다루는 훌륭한 솜씨를 엿볼 수 있게 해준다. 아울러 비로전에 모신 금동비로자나불좌상과 극락전에 모신 금동아미타여래좌상을 비롯한 다수의 문화유산도 당시의 찬란했던 불교문화를 되새기게 한다. 이러한 가치를 인정받아 1995년 12월에 석굴암과 함께 세계문화유산에 등재되었다.

석굴암은 통일신라시대의 석굴사찰이다. <삼국유사>에 의하면 원래 이름은 '석불사'였으며, 신라 경덕왕 10년(751) 당시의 재상인 김대성이 불국사를 중창하면서 왕명에 따라 창건했다고 한다. 자연석을 다듬어 인공으로 만든 석굴로, 직사각형의 전실과 원형의 주실로 나누어져 있으며, 천장은 돔 모양의 둥근 양식으로 그 위에 연꽃무늬 원판을 두었다. 전실과 굴입구 좌우의 벽에는 팔부신장, 인왕, 사천왕 등의 입상을 조각하였다. 굴 가운데에는 높이 3.48미터의 본존불을 안치하였고 그 둘레에는 천부입상2구, 보살입상2구 및 나한입상 10구를 배열하고 본존불 바로 뒤에는 11면 관세음보살입상을 조각하였다. 천장 주위에 있는 10개의 감실안에 좌상의 보살과 거사 등이 안치되어 있다. 이 조각들은 우아한 솜씨가 돋보이는 통일신라시대의 걸작으로, 한국 불교예술의 대표작이라고 할 수 있다.



Building Safety Strong **ARMY SAFE IS ARMY STRONG**



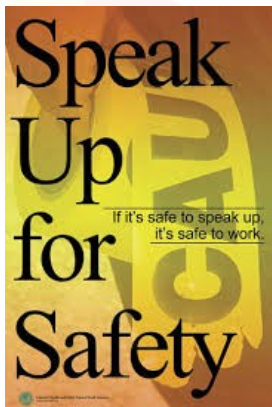
Distracted Driving

According to Distracted.gov, distracted drivers involved in motor vehicle crashes were responsible for an estimated 421,000 injured people, this is a nine percent increase from 2011. Additionally, 3,328 fatalities were caused by distracted drivers. Thirty-seven percent of all distracted driving fatalities are under 30 years old and 10 percent are under 20 years old.

These statistics give light to a very serious problem. This problem does not stop at the U.S. borders. Anyone that has lived in Korea for more than six months understands that distracted driving is a real hazard that must be faced daily.

Don't be part of the problem. Be an example to your family and others by communicating how dangerous distracted driving really is. Don't let one of your children become a safety video "movie star."

Motorcyclists in Korea use the sidewalks and pedestrian crosswalks as their own personal road. This fact is one of the reasons that Korea has more pedestrian deaths per year than any other country in the world. Remember to share the road and be aware, they are there.



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6 digits**

Motorcycle Safety

Did you know that 46 percent of all motorcycle accidents occur at intersections or that helmet uses dropped six percent from 2011 to 2012? May begins Motorcycle Safety Awareness Month and even though very few Far East District employees ride motorcycles, you encounter them every day. Be aware of what is around you before changing lanes or making U-turns. Also, when stepping off of a bus, be sure to look before stepping out the door.

Vehicle Safety Checks

Having a car safety checklist can be a vital teaching tool for new drivers or for owners of new vehicles to understand the proper functioning of the systems that keep drivers and passengers safe when on the road. This is required when signing out a government owned vehicle but it is also a very good practice for your personal vehicle.

Literally, thousands of dollars can be saved simply by conducting regular inspections of your vehicle to catch maintenance and safety issues early or prevent them altogether. Speaking of maintenance, remember to follow the car's owner's manual and have routine preventative services conducted regularly by a trained professional. Checking now saves later.



Amanda Boucher
Logistics Management
Came from Europe District



Cha Yong-sik
Logistics Management
Came from Humphreys



Haekyung Cho
Resource Management
Locally hired from Osan



Shane Kobiałka
Construction
Came from Gilbert, Ariz.



Song Yu-chong
Construction
Came from Humphreys



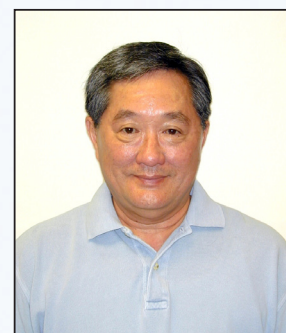
Capt. Justin McMillan
Korea Program Relocation
Came from 541st Engineer Company, Germany



Chun Sugahara
Resource Management
Transferred to Hawaii



Miri Kiehm
Logistics Management
Resigned



Robert Kiehm
Engineering
Retired

KEEP IT IN YOUR PANTS!



OR PURSE, BACKPACK, GLOVE BOX, ANYWHERE OUTTA SIGHT WHEN DRIVING!

At any given daylight moment across America, approximately 660,000 drivers are using cell phones or manipulating electronic devices while driving, a number that has held steady since 2010. In 2012 alone, 3,328 people died on US roadways in distracted driving crashes, and an estimated 421,000 were injured in motor vehicle crashes involving a distracted driver.

Texting while driving creates a crash risk 23 times worse than driving while not distracted.

**PROTECT YOURSELF AND YOUR
BATTLE BUDDIES!**



ARMY STRONG:



U.S. ARMY COMBAT READINESS/SAFETY CENTER
<https://safety.army.mil>

Practice
Safe
Text!