



APG NEWS

Published in the interest of the people of Aberdeen Proving Ground, Maryland

www.TeamAPG.com

THURSDAY, JULY 7, 2016

Vol. 60, No. 27

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RESILIENCE

APG's National Prayer Luncheon delivers message of perseverance.

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FAREWELL

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newsbrief

ON-POST HOUSING

NOW OPEN TO CONTRACTORS

Corvias Military Living

Corvias Military Living and Aberdeen Proving Ground have announced that Department of Defense contractors who work on base are now eligible to live in on-post housing. This category has been added to the housing eligibility expansion, which also welcomes retired military and federal civilians.

The expansion of on-post housing eligibility is being made due to immediate home availability at APG.

Homes are available now for move-in and residents can save more than \$4,000 annually living on post. Rent includes 24-hour maintenance services, lawn care, average use of utilities and access to ample amenities to include pools and the Corvias Community Center. Several home types are available to the newly-added categories including two, three and four-bedroom floor plans.

"Military retirees, federal workers and contractors are a large part of Team APG. Affording them the opportunity to live on post, when we have availability, helps strengthen our community and support system for those serving our nation," said Col. James E. Davis, APG garrison commander.

For more information and to apply, call 410-305-1076 or visit APG.CorviasMilitaryLiving.com. Applicants from the newly eligible categories will be required to pass installation background checks as well as credit and income requirements. Active-duty service members are exempt from these requirements.

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 ICE system
<http://ice.disa.mil/>
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Photo by Lindsey Monger, ATEC

Maj. Gen. Daniel L. Karbler, commander of the U.S. Army Test and Evaluation Command (left, in vehicle), waves to parade goers during the Havre de Grace Independence Day Parade, July 3. Karbler led ATEC and Aberdeen Test Center personnel and military vehicles, through the city's streets to celebrate the nation's 240th birthday.

Team APG had a presence at multiple local Independence Day celebrations. **See more photos on page A4.**

SHARP course graduates new advocates

Story and photos by
MARY B. GRIMES
CECOM

Nearly 30 Soldiers and Department of Defense civilians from areas throughout the U.S. Army Communications-Electronics Command, or CECOM, successfully completed the Sexual Harassment/Assault Response and Prevention, known as SHARP, Foundation Course June 30, at the Mallette Training Facility on APG North (Aberdeen).

The HQDA-mandated course trains designated unit or organization representatives to become SHARP specialists for their respective commands. Prior to training, candidates are vetted by their chain of command to determine their suitability for the program's commitment and demands.

The final day of training was no less demanding for the APG students than the previous days during the two-week course.

See SHARP, page A7



Students participating in the Sexual Harassment/Assault Response and Prevention Foundation Course at APG, June 20-30, listen to panelist feedback about their SHARP action plan initiative. The course trains designated unit or organization representatives to become SHARP specialists for their respective commands.



Crawford hosts force protection town hall as part of 'Operation Vigilant Resolve'

APG Senior Commander and CECOM Commanding General Maj. Gen. Bruce T. Crawford addresses CECOM senior leaders during a town hall meeting, July 1, at Myer Auditorium, as part of APG's "Operation Vigilant Resolve." The force protection initiative is intended to focus on resiliency, awareness, and if needed, action.

Crawford reiterated the importance he places on keeping employees and families safe, and how leadership is focused on threat mitigation. He urged concentrated attention to safety and security detail at every CECOM/APG level and emphasized supervisors share such Force Protection measures to all employees. The town hall also included an update from APG Garrison Director of Emergency Services Stephen Jellie.

CECOM photo

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STREET TALK

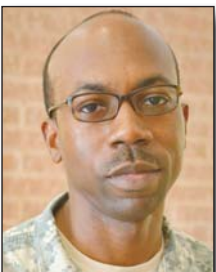
July is Parks and Recreation Month. Do you have a favorite park?

I like taking my 4-year-old son to the Rockfield Park, next to John Carroll School in Bel Air. There is a big playground with room for him to run around and have fun.



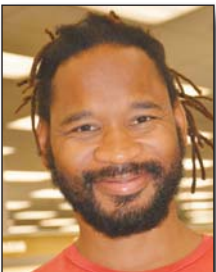
Tecaria McLane
APG North CDC

Druid Hill Park in Baltimore is my favorite, because it reminds me of my childhood, when I would go there and have picnics with my family and play with my cousins.



Maj. Juan Bryant
Maryland National Guard

My favorite is Tongva Park in Santa Monica, California. It has amazing landscaping, a splash park and it is across the street from the beach.



Jerry Digby
Family member

I like going to the Ma and Pa Trail in Bel Air, to enjoy the fresh air and trees. It is a nice place to go for a run, and there is a dog park.



Spc. Emmanuel Lumbres
1st Area Medical Laboratory

I grew up in Queens [New York] so it was a special treat to visit Central Park in New York City. Central Park has so much to do like row boating, visiting the zoo and ice skating in the winter. I have been to many concerts there, major stars will perform there for free. Even though it is crowded, I don't mind.



Irving Choo
Retiree

See Something

Cut along dotted lines and fold in middle for use as wallet reference Card.

Provided by the INTEL DIV/DPTMS
Say Something

Sleeves rolled, camo out

By DAVID VERGUN
Army News Service

Effective immediately, commanders may authorize Soldiers to roll up the sleeves on Army combat uniforms, according to a memorandum signed by Lt. Gen. James C. McConville, deputy chief of staff, G-1, June 28. The new policy pertains to the universal camouflage pattern, operational camouflage pattern and Operation Enduring Freedom camouflage-pattern ACUs. "We're going sleeves up, camo out," said Sgt. Maj. of the Army Daniel Dailey. The sleeves will be rolled above the elbow, right-side out with the camouflage pattern showing. They should be rolled no more than three inches above the elbow, according to the memo, and this method will be used primarily in garrison.

'Delta roll'

In addition, during field training exercises or operations, upon approval of the commander, sleeves may be opened and cuffed inward above the wrist on the forearm. "It's often referred to as a Delta roll or SF roll," Dailey said.

This second method of staying cool is specifically for Soldiers in a field or deployed environment, he emphasized.

Soldiers have to remember, though, that these authorizations are only good when not precluded by safety, Dailey said. "Like when you're in a combat vehicle, the sleeves have to go down."

No time restrictions

There will be no time restrictions on the new policy, Dailey said. "For instance, company commanders in Hawaii can make the decision to go sleeves up any time of year."

The ultimate decision to roll sleeves any time rests with unit commanders, he said, but added that the Army-wide policy has changed due to input from Soldiers.

"The overwhelming support from Soldiers around the Army was a big factor in coming to this decision," he said.



Photo by Gary Sheftick, Army News Service
A Soldier demonstrates how the sleeves can be rolled with camo out, no more than three inches above the elbow.

Some early rollers

Soldiers at Fort Hood, Texas, were given permission earlier this month to begin rolling up their sleeves for a 10-day period, when visited by Dailey and Chief of Staff of the Army Gen. Mark A. Milley.

At the time that permission was given mid-month, the sleeve-rolling was considered an experiment for a possible Army-wide policy, according to a G-1 spokesman.

That spokesman, Lt. Col. Jerry Pionk, said "Feedback from Soldiers resulted in us wanting to do a trial over the next ten days to see the feasibility of updating AR 670-1 and incorporating in the future for the force to give commanders flexibility in wear based upon their unit's mission."

Feedback

Soldier feedback on the issue has

been populating social media sites for the past two weeks.

For instance, in a June 21 post on the Army Facebook page, the question was asked: "Let your voice be heard!! If your'e a #USArmy Soldier, the #15th SMA wants to know what you want: Camo in or Camo out?"

One commented: "Go back to the good ole days! It was an art to roll those sleeves!" She was referring to 2006, before the Battle Dress Uniform was phased out. At the time the camouflage pattern remained on the outside.

Most, but not all of the sentiment appeared to be "camo out." Some didn't agree at all with rolling them up, but that appeared to be a small minority.

That Army Facebook posting generated a lot of interest. Twitter and other social media sites generated similar outpourings.

APG News welcomes new writer

By RACHEL PONDER
APG NEWS

Lauren Finnegan, a contract staff writer with the Baltimore Sun Media Group, has joined the APG News staff in the Garrison Public Affairs Office.

Prior to joining the APG News staff, she was a substitute teacher for Harford County Public Schools and a freelance writer for



Finnegan

the Yahoo Contributor Network.

Finnegan hails from Oakland, New Jersey. She holds a bachelor's degree in political science Hawaii Pacific University in Honolulu Hawaii.

A military spouse, Finnegan said she looks forward to getting to know more people in the APG community. She has lived in the area for nearly two years, and describes herself as a "people person." She said she hopes to write articles that will provide helpful information to newcomers.

"I really love talking to people, I love to write, and I just thought that [becoming an APG News reporter] would be a really good way to connect with mili-

tary spouses because I have been in their position," she said.

She added that she is eager to gain more experience in journalism, as she considers it a portable career.

"There is always going to be news and there is always going to be people who need and want information," she said.

Finnegan is married to U.S. Army Staff Sgt. James Finnegan, a 19D cavalry scout, currently serving as a recruiter. They have two children. Her hobbies include refurbishing furniture and shopping.

To contact Finnegan, email lfinnegan@baltsun.com or call 410-278-8759.

Missing the paper?

APG News

If your organization is moving and would like to receive the paper at your new location, or if your organization would like to begin receiving the newspaper, send an e-mail to: usarmy.apg.incom.mbx.apg-pao@mail.mil with the following information:

- The organization name and building number where papers should be delivered
- Approximately how many people work at or visit the facility
- The number of papers you would like to receive
- Any additional information

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Include "APG News Delivery Request" in the subject line.



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Deadline for copy is Thursday at noon for the following Thursday's paper.

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Ceremony honors three APG retirees

By **RACHEL PONDER**
APG News

Three civilians were commended for their service to the nation during the Installation Retirement Ceremony at the Ball Conference Center on APG North (Aberdeen), June 30.

Col. Marty Muchow, deputy commander of the 20th CBRNE Command, presided over the ceremony and presented awards to honorees Cynthia C. Smith and Carroll G. Sparwasser of the Directorate of Public Works Service Environmental Division and Rosaline “Rose” Smith with Army Community Service.

Muchow hailed the retirees, whose combined total service totaled more than 104 years.

“They have all given so much to Aberdeen Proving Ground, to our armed forces and our nation, and will continue to do so in our future,” he said, adding that they will leave a legacy behind.

“As you close this chapter of DOD service and turn the page to the next chapter of your life, remember the lessons and memories you have from your time of service. They will guide you into this new chapter,” he said.

I want to thank my family; I could not have accomplished what I had accomplished without the dedication and support of my family.

Cynthia C. Smith
Cynthia Smith was awarded the Department of the Army Superior Civilian Service Award and DA certificates of appreciation and retirement signed



C. Smith

by Installation Management Command Atlantic Region Director Davis D. Tindoll Jr.

Her career highlights include serving as the project manager for the Old O-Field, where she performed numerous treatability studies and developed a complex and new treatment and monitoring process to remediate contaminated groundwater at the site. As a result, APG’s first environmental record of decision was signed in 1991 for extraction and treatment of the contaminated groundwater. This included a unique real-time bio monitoring system using blue gill fish to ensure the treated water was safe. The facility has operated successfully since 1995.

Further remediation efforts led by Cynthia Smith resulted in a reduction of anticipated costs from more than \$1 billion to less than \$30 million.

Her past awards include the State of Maryland Governor’s Award for Outstanding Service, the Army Achievement Medal and the Commander’s Award for Civilian Service. She culminates her career as a supervisory environmental engineer.

Cynthia Smith thanked her colleagues and said she plans to spend more time with her family and travel .

“I want to thank my family; I could not have accomplished what I had accomplished without the dedication and support of my family,” she said.

Cynthia Smith is married and has four adult children. She officially retired May 30 with nearly 35 years of service.

I cherish the time that I had and the friendships that I have been able to make over the years.



R. Smith

Rosaline “Rose” Smith
Rose Smith received the DA Com-

mander’s Award for Civilian Service and DA certificates of retirement and appreciation signed by APG Garrison Commander Col. James E. Davis.

She began her career as an Army nurse, serving from 1979 to 1984. Her duty stations included the U.S. Military Academy at West Point, New York, and Fitzsimons Army Medical Center, in Aurora, Colorado.

As a DOD civilian, she served as a nurse and worked for the U.S Army Recruiting Command, Syracuse Recruiting Battalion in multiple family program positions for 15 years before coming to APG in 2015.

She culminated her federal career as an ACS Family Advocacy Program Manager.

Rose Smith said she was “blessed” to have a career serving the military.

“I cherish the time that I had and the friendships that I have been able to make over the years,” she said.

Rose Smith is married and has seven adult children. She officially retired May 30, with more than 35 years of combined service.

I am and always will be grateful for the ever-present support and friendship that I have been fortunate to share with so many shipmates and colleagues here at APG.



Sparwasser

Carroll Sparwasser
Sparwasser was awarded the DA Commander’s Award for Civilian Service, and DA certificates of appreciation and retirement signed by APG

Garrison Commander Col. James E. Davis.

His career highlights include participating in a field expedition to Australia where he collected freshwater fish, which became part of the collection at the Smithsonian Institution. In 1982 he attended Officer’s Candidate School Newport, Rhode Island, where he was commissioned as a Navy ensign.

During his tour of duty aboard the guided missile destroyer USS Henry B. Wilson (DDG-7) he served as a missiles officer, fire control officer and auxiliaries officer and was qualified as a surface warfare officer. In 1986, Sparwasser was released from active duty with an honorable discharge and transitioned into the U.S. Navy Reserve, where he eventually retired as a commander.

As a civilian he was hired as an engineer for ARINC Research Corporation in Annapolis, Maryland and transitioned back to the environmental field in 1989 as environmental division manager and director of operations in the private sector. In 1996 he formed his own environmental assessment company and in 2009, he accepted a permanent position at APG with the DPW Environmental Division.

His awards include the Navy and Marine Corps Achievement Medal, the Navy and Marine Corps Commendation Medal, and the Joint Service Achievement Medal.

Sparwasser culminated his career as the environmental management system, or EMS, management representative.

He said he will remember those he worked with in the Navy and at APG fondly.

“I am and always will be grateful for the ever-present support and friendship that I have been fortunate to share with so many shipmates and colleagues here at APG,” he said.

Sparwasser, who is married with two sons, said he looks forward to spending more time with his family and serving as a coach on the U.S Naval Academy varsity offshore sailing team.



HAPPY

4th of July

Independence Day

★ 1776 ★

Brig. Gen. William E. King IV, (front, left) commander of the 20th CBRNE Command, leads the command color guard during the rainy Bel Air Independence Day parade July 4.

Photo by Rick Scavetta, USAG APG

Col. Ken Lenig, U.S. Army Materiel Systems Analysis Activity military deputy and chief of staff, delivers remarks during the VFW Post 6027 “Salute to Veterans” event, July 3, in North East. Retired U.S. Air Force Col. Hank Passi and North East Mayor Robert McKnight hosted the event.

Photo by Amy Hammen, AMSAA





All Things MARYLAND

Pick-your-own local fruit

Enjoy the fruits of your labor with farm-fresh produce

By **LAUREN FINNEGAN**
APG News

One of the best things about summer, besides barbecues, flip flops, and the beach, is all the fresh fruit in season. From strawberry shortcake and blackberry jam to peach honey, the options for fresh, fruit-based meals and desserts are endless. And picking your own can add to the enjoyment. Local Maryland farms have a plethora of several types of fruit that are ripe for the picking. So pack the family into the car and create some memories that are sure to last a lifetime (or at least until all the strawberry shortcake is gone). Here are some local pick-your-own sites.

HARFORD COUNTY **Shaw Orchards**

Located on the Mason Dixon Line, Shaw Orchards has blueberries, black raspberries, and red raspberries for harvesting. Peach picking begins the second week of July.

Located at 5594 Norrisville Road, White Hall, MD 21161. For more information, call 410-692-2429 or visit www.shaworchards.com

Lohr's Orchard

Freestone peaches, the kind that fall off the pit while eating, are projected to be ready by the end of July. Because of the late freeze into spring, cherries will not be available this year.

Located at 3212 Snake Lane Churchville, MD 21208. For more information, call 410-836-2783 or visit www.lohrsorchard.com.

CECIL COUNTY **Walnut Spring Farms**

Walnut Springs Farm is celebrating 40 years of pick-your-own fruit, and currently has black raspberries and blueberries available. Containers for carrying and weighing are available at the farm. Picking hours depend on the type of fruit desired. Check the website or call for specific hours.

Located at 3910 Blue Ball Road, Elkton, MD 21921. For more information, call 410-398-3451 or visit www.strawberryfarm.com.

Milburn Orchards

At Milburn Orchards, you can spend a whole day picking cherries, blueberries or blackberries, and then lunch at the Orchard View Lunch and Ice Cream Deck. Children can enjoy a large play area, a goat walk, and a petting zoo in the "Big Backyard." Grape and raspberry picking is available in mid-August.

Located at 1495 Appleton Road, Elkton, MD 21921. For more information, call Phone: 410-398-1349 or visit <http://www.milburnorchards.com/>.

Spring Valley Farm

At Spring Valley Farm, located about 30 minutes from APG, you can pick

blueberries through July. Buckets are available for purchase for \$1.75 each, or bring your own.

Located at 724 Conowingo Road, Conowingo, MD 21918. For more information, call 410-378-3280 or visit <http://www.springvalleyfarm.com/>

BALTIMORE COUNTY **Hybridoma Organic Fruit Farm**

Hybridoma Organic Fruit Farm is a 50 acre farm that was certified organic by the Maryland Department of Agriculture. Blueberries and raspberries are available through July. Blackberries will be ready in August. Hybridoma also has lavender, gooseberries and currants on a limited basis. Check the website for availability.

Located at 13734 Baldwin Mill Road, Baldwin, MD 21013. For more information, call 443-902-0370 or visit <http://www.hybridomafarm.com/description>.

Maryland Agricultural Resource Council

The Maryland Agriculture Resource Council, or MARC, is unique because it's pick your own products are flowers. Tulips and sunflowers are available any time. The farm's 150 acres can be explored on pedestrian and horse trails.

Located at 1114 Shawan Road, Cockeysville, MD 21030. For more information, call 410-887-8973 or visit www.marylandagriculture.com.



Courtesy photos



Photo by Molly Blossie, APG News

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F P
O M T S
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L P E D E Q
T R U X Q T R
G R U S M V P O S
N B C D I Z E M P

Optometry Clinic re-opens on Medical Service Corps birthday

Maj. Jake Bustoz (left), Kirk U.S. Army Health Clinic acting commander, and Col. Marilyn Mueller (right), Optometry Clinic chief, celebrate the reopening of the KUSAHC Optometry Clinic with a ribbon-cutting on the 99th birthday of the Medical Service Corps, June 30.

Renovations to the clinic include a reconfiguration to utilize space, creating two examination lanes, a diagnostic testing room and an expansion of the waiting room to include an optical services area.

The clinic provides eye exams with priority given to TRICARE Prime beneficiaries. The clinic is open, Monday through Friday, 7:30 a.m. to 4:30 p.m., with a temporary closure Wednesdays between 1 and 2:30 p.m. for training. To make an appointment, call 410-278-5475.

Army needs to connect with American people

By **DAVID VERGUN**
Army News Service

The Army is not doing a good enough job of communicating and connecting with the American people, said Secretary of the Army Eric K. Fanning, adding “That’s not healthy for the country or the Army.”

Fanning spoke at an Association of the United States Army’s Institute of Land Warfare-hosted professional development forum breakfast, June 28.

The lack of connectivity has not happened overnight, he explained. It started decades ago with the creation of the all-volunteer force, “which caused a divide over those who served and those who are protected.”

That divide doesn’t bode well for future recruiting efforts and getting the resources the Army needs from Capitol Hill, Fanning said.

The Army needs to find ways to reach out – particularly to the new generation – and tell the Army story, he said.

Ways to Connect

Fanning suggested several gateways for making that connection, social media being one and engaging more with the press and policymakers as others.

Himself a social media user, the secretary said it’s a tool that could be used to share with everyone what the Army is doing, and get that told in an accurate and informative manner.

The Army brings a lot to the fight. It is large, for instance, with huge geographical reach, he said. It brings great capability to the fight – to the joint fight. That could be communicated.

When people think about the third offset strategy, they think about sophisticated aircraft and vessels the Air Force and the Navy field. “The Army is undersold and underappreciated with the role technology plays,” he said.

For instance, there’s 10 times as much computerized code in a tank today than there was in the spacecraft that flew men to the moon, he said. There are robotics, autonomous vehicles and a lot of other things in the Army that are high-tech and need to be talked about. That too could be told.

Another way to connect is through word of mouth, Fanning said. If you walk down the street and see a person in uniform, chances are, they’re in the



Secretary of the Army Eric K. Fanning (left) speaks at an Association of the United States Army’s Institute of Land Warfare-hosted professional development forum breakfast, June 28 in Arlington, Virginia. Retired Gen. Carter Ham (right) moderates the discussion.

National Guard or Reserve. They’re in every community and are a potent source for telling the Army story. They bring unique capabilities to the fight and are integral to the total force.

Asked why youngsters choose to join the Army, Fanning replied that when he visits basic training at Fort Jackson, South Carolina, he poses that question to the parents.

They often reply that there’s a family connection. Perhaps an uncle or grandfather served, he said. That’s how important staying connected is. The Army is literally “America’s service.”

Biggest Threat to Army

Fanning addressed a number of other concerns during a question and answer session.

When asked what he thought was the biggest threat to the Army, Fanning replied “the budget instability and the political environment.”

He noted that budget uncertainty “makes it very hard to put together any sort of long-term plan. ... It’s the biggest threat to building the most capable Army we can build.”

Budget Reform

Regarding budget reform, Fanning

noted that’s still a big problem after many attempts to tackle it.

Some of what stymies reform is the enormity of the bureaucracy, he said. “Bureaucracies are additive. ... [There’s] too much oversight and top-down management. We have to loosen that up because we’re not fielding capabilities as fast as we should and we’re spending a lot of money in the process.”

Asked about his involvement with a new “Rapid Capabilities Office,” Fanning explained that its purpose is ferreting out the capabilities the adversaries are acquiring – capabilities that are often a surprise to the U.S. military – and getting new or counter capabilities out to the field as quickly as possible. Two areas of special concern are electronic warfare and cyber.

Soldiers and Families

Soldiers are being asked to do a lot, Fanning said, referring to multiple deployments. Although they join to do that, it eventually can and does take a toll on the family.

It’s the Army’s job to reassure Soldiers that their families are being taken care of when they deploy, he said.

Family programs are part of that plan and it’s a big institution, he said. There are so many programs and “I’m not sure we have the oversight and integration, or that they’re as effective as they could be. It should be made as easy as possible for families to reach out and find the help they’re looking for.

“We need to find out which programs are working and which are not and which could be improved or done away with so resourcing can be used for other things,” he continued.

Suicide & Sexual Assault

Regarding suicides, Fanning said that’s a difficult nut to crack. There’s still a stigma out there to seeking help and the numbers don’t look good. The suicide rate this year – about 100 – is the same as it was last year.

But Army researchers and behavioral health experts are laser focused on getting answers, he added.

As to sexual assault, Fanning said “a lot has been done on the response side, but more needs to be done on the prevention side.”

Even just one suicide or one sexual assault case in the Army is one too many, he added.

Flour culprit in latest E. coli outbreak

U.S. Food and Drug Administration

Do you find it hard to resist gobbling up a piece of raw dough when making cookies, or letting your children scrape the bowl? Do your kids use raw dough to make ornaments or homemade “play” clay? Do you eat at family restaurants that give kids raw dough to play with while you’re waiting for the food?

If your answer to any of those questions is yes, that could be a problem. Eating raw dough or batter – whether it’s for bread, cookies, pizza or tortillas – could make you, and your kids, sick, says Jenny Scott, a senior advisor in FDA’s Center for Food Safety and Applied Nutrition.

According to Scott, the bottom line for you and your kids is don’t eat raw dough. And even though there are websites devoted to “flour crafts,” don’t give your kids raw dough or baking mixes that contain flour to play with.

Why? Flour, regardless of the brand, can contain bacteria that cause disease. The U.S. Food and Drug Administration, or FDA, along with the Centers for Disease Control and Prevention, known as the CDC, and state and local officials, are investigating an outbreak of infections that illustrates the dangers of eating raw dough. Dozens of people across the country have been sickened by a strain of bacteria called Shiga toxin-producing E. coli O121.

The investigation found that raw dough eaten or handled by some of the patients was made with General Mills flour produced in a Kansas City, Missouri, facility. Subsequent tests by the FDA linked bacteria in a flour sample to bacteria from people who had become ill.

On May 31, General Mills recalled several sizes and varieties of Gold Med-

al Flour, Gold Medal Wondra Flour, and Signature Kitchens Flour due to possible E. coli contamination. On July 1, General Mills expanded the recall to include additional lots of flour sold under the same brand names. The recalled flours, in unbleached, all-purpose and self-rising varieties, were sold nationwide.

Flour has a long shelf life, and many people store bags of flour for a long time. If you have any of these recalled items in your home, you should throw them away.

Why Flour?

People often understand the dangers of eating raw dough due to the presence of raw eggs and the associated risk with Salmonella. However, consumers should be aware that there are additional risks associated with the consumption of raw dough, such as particularly harmful strains of E. coli in a product like flour.

“Flour is derived from a grain that comes directly from the field and typically is not treated to kill bacteria,” says Leslie Smoot, Ph.D., a senior advisor in FDA’s Office of Food Safety and a specialist in the microbiological safety of processed foods. So if an animal heeds the call of nature in the field, bacteria from the animal waste could contaminate the grain, which is then harvested and milled into flour.

Common “kill steps” applied during food preparation and/or processing (so-called because they kill bacteria that cause infections) include boiling, baking, roasting, microwaving, and frying. But with raw dough, no kill step has been used.

For more information about this recall and other food safety information, visit <http://www.fda.gov/ForConsumers/ConsumerUpdates/> or www.cdc.gov/ecoli/2016/o121-06-16/.

BY THE NUMB#RS

Maryland State Parks

Summer is the perfect time to explore Maryland State Parks, which offers a variety of recreational activities and historical landmarks. Read these facts to learn more about Maryland State Parks.

95,196

Total numbers of acres for which the Maryland Park Service is responsible. The Department of Natural Resources service maintains 51 parks across the state.

404

Years since Captain John Smith identified the area now known as Calvert Cliffs State Park as “Rickard’s Cliffee.” This park is known for the abundance of fossils that can be found on the shoreline.

120+

Miles of hiking trails in Gunpowder Falls State Park, located in Harford and Baltimore Counties. Gunpowder also features protected state wildlands, historic sites, fishing, a beach, a marina, and canoeing and kayaking streams

24

Number of Maryland State Parks that allow public hunting.

3

Years since the State of Maryland broke ground on the 17-acre Harriet Tubman Underground Railroad State Park and Visitor Center commemorating the legacy of abolitionist. The Visitor Center, with interpretive exhibits, will be complete in early 2017.

By RACHEL PONDER, APG News

Source(s): <http://msa.maryland.gov/msa/mdmanual/01glance/html/parks.html>

Tell them you saw it in the APG News

SHARP training connects efforts to readiness

Continued from Page A1

Final day presentations highlighted a multitude of situations and scenarios SHARP representatives might encounter. At the heart of the training was the resounding message of awareness. Making individuals, groups and communities cognizant of the SHARP services available, knowing where SHARP locations are, and who to contact in the event those services are needed, was a message constantly repeated throughout the 80-hour training session.

Prominent in the training was the opportunity for students to come up with ideas and suggestions that might be helpful in better promoting SHARP in their various organizations. The ideas ranged from ways to eliminate bullying, to coming up with public relations initiatives that include support from installation news sources, as well as utilization of social media in communicating the command’s SHARP awareness program and messages.

Speaking to the issue of bullying, one student participant suggested that at the elementary school level, bullying be placed on the front burner, and that a family self-defense program become another positive step toward eliminating SHARP related incidents or problems. He said, “When I speak of a family self-defense program, I’m not talking about the usual kicking, punching, and hitting, but rather I’m talking about vigilant...being strongly aware of your surroundings.”

Pointing out the importance of awareness, his teammate echoed similar sentiments stating, “For example, APG is a large installation, and buildings are spread about. I noticed one day, a young lady walking down the street and there was only one building in the distance, and in a dimly lit area. She had her headphones on, and she seemed oblivious to her surroundings. This is where awareness is so important, and just one of the ways individuals can take a more responsible part in reducing or possibly eliminating assault issues.”

Several subyet matter experts were on hand to provide guidance, and feedback to the new SHARP specialists. Their comments ranged from satisfaction with the use of effectively tying



Nearly 30 students graduated from the two-week SHARP Foundation Course at APG, June 30. Vetted by their respective chains-of-command prior to the class, students attended the training to become designated unit or organization SHARP specialists.

I.A.M. (Intervene, Act, and Motivate) Strong – the Army’s campaign to combat sexual harassment and sexual assault by engaging all Soldiers in preventing sexual assault before they occur, into their presentations, to ensuring Department of Defense civilian audiences are included in their SHARP outreach action plans.

“You might walk into a classroom, and everybody’s a civilian,” said Sgt. Maj. Bruce Williams, U.S. Army Materiel Command SHARP program manager. “Are you going to only talk to them about military topics? No. Make sure you cover civilians, and if you need help, turn to the subject matter experts at the Equal Employment Opportunity office, and or the legal office. Help is out there. Use it.”

Readiness

Williams explained how the Army values apply to SHARP and how SHARP applies to readiness.

“General Mark A. Milley, Chief of Staff of the U.S. Army, expresses read-

iness as priority number one,” he said. “SHARP is definitely a part of readiness. If people are not coming to work because of appointments, or they’re scared to come to work, they seek expedited transfers. Everything ties into SHARP. We have an important job to do.”

Williams encouraged the newly-certified students to seek assistance from others when needed and to remember their duty to help others.

“Always seek resolution at the lowest level first, and never lose sight of the fact that at the end of the day, you’re taking care of people in your organization, and now that you’re certified, you can take care of a person at any installation and any branch of service. Just be aware of that. Don’t close the door on anybody and say ‘that’s not a part of my job.’ Once you get this certification, you’re there to help everybody in need.”

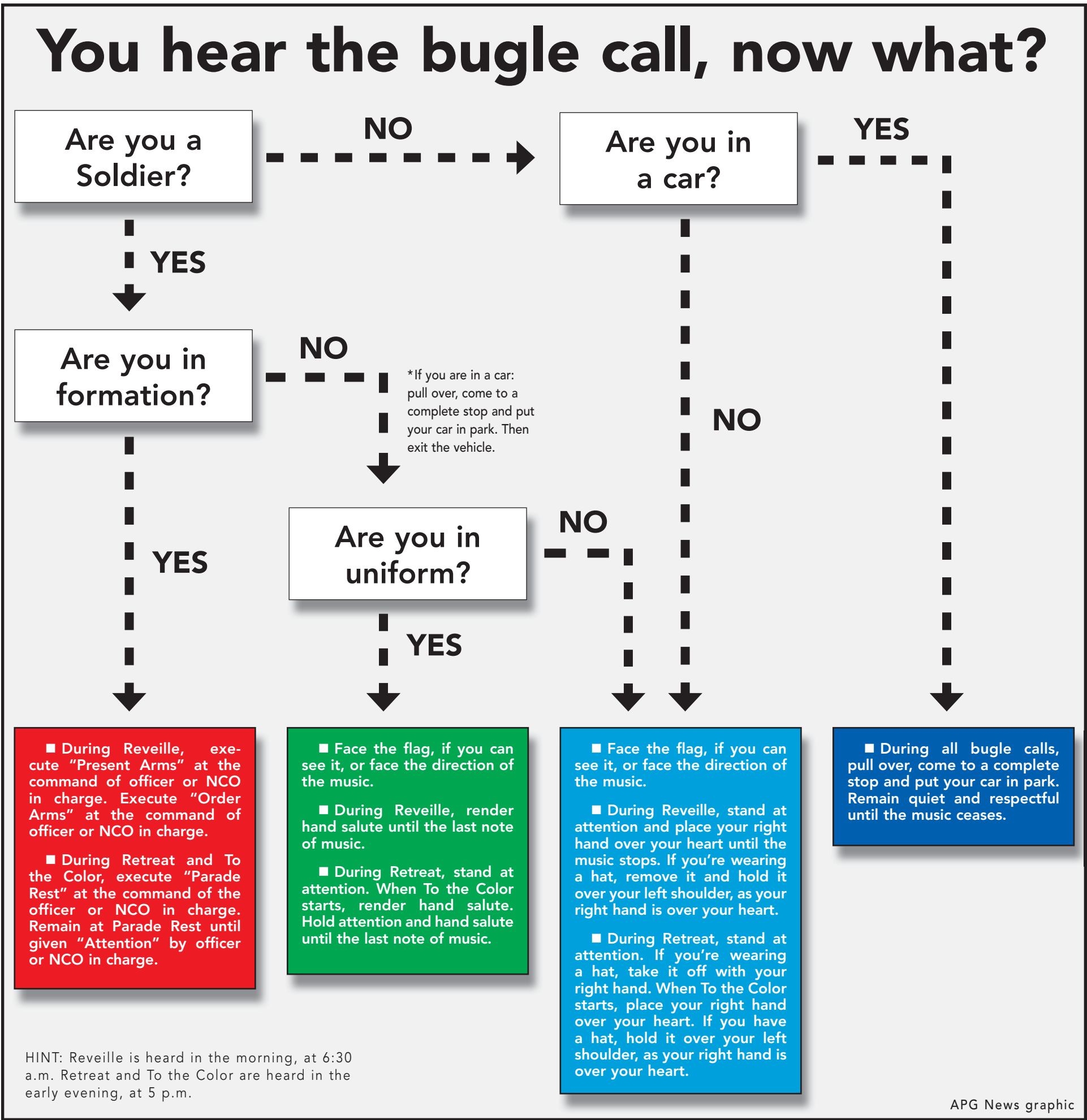
Bystander Intervention

Williams’ words were spoken with

such force, that the graduates seemed to cling to every word. As his presentation came to a close, he stressed the importance of teaching bystander intervention.

“If you see something going wrong, people should jump in and prevent it from happening. That’s how we stop sexual harassment. That’s how we stop sexual assault. A lot of people wait until the wire keeps twisting and twisting and twisting, and then it’s so difficult to get it straight. Stop it. Nip it in the bud.

“Our leaders are right now taking action. We’re trying to prevent retaliation. We’re showing accountability. Be with your commanders. They know that SHARP is their program. Now that you have completed this training, you must work to ensure that everyone in their program, is going to follow their guidance. When you’re out there training, walk the walk, and talk the talk because now that you are certified, there are high expectations we have of you.”



MARK YOUR CALENDAR

EVENTS & TOWN HALLS

NEWCOMERS ORIENTATION JULY 13

APG North (Aberdeen) recreation center; 1 to 3 p.m. Sponsored by Army Community Service.

CHILD DEVELOPMENT CENTER JOB FAIR JULY 16

APG North (Aberdeen) youth center; 10 a.m. to 2 p.m. The Child Development Centers are now hiring child care workers for the three facilities at APG. Applicants must be at least 18-years-old and possess a minimum of a high school diploma/GED. Work Schedules include irregular shifts and may guarantee up to 20 hour irregular shifts during the hours of 5:45 a.m. to 6:30p.m. Salary range is \$12.33 -\$19.63 per hour. For more information, visit www.apgmwr.com/upcoming-events.

GARRISON TOWN HALL JULY 21

APG North (Aberdeen) recreation center; 10 to 11:30 a.m.

INSTALLATION TOWN HALL JULY 21

APG South (Edgewood) recreation center; 3 to 4 p.m. Installation social to immediately follow.

JOB FAIR & EMPLOYMENT RESOURCE DAY AUGUST 3

APG North (Aberdeen) recreation center, Bldg. 3326, 11 a.m. to 2 p.m. Open to all Team APG and general public. Will include employers from local, state and federal government agencies and the private sector. For more information, visit www.apgmwr.com/upcoming-events.

MEETINGS & CONFERENCES

MEDICAL TOWN HALL JULY 12

Kirk U.S. Army Health Clinic, room B06; 11 a.m. All DOD beneficiaries are welcome. Topics to include: access to care at KUSAHC; TRICARE referrals; Exceptional Family Member Program; pre-authorizations and billing; dental services and veterinary services. For more information, contact Sgt. 1st Class Anthony Woods at anthony.l.woods3.mil@mail.mil or call 410-278-1724.

BLUE CROSS BLUE SHIELD REP VISIT JULY 12

APG North (Aberdeen) recreation center, 9:30 to 11:30 a.m.; Bldg. E2800, 12:30 to 1:30 p.m. Representatives will be available to discuss claim problems and plan coverage. No appointment necessary. For more information, call 410-278-4331.

Kirk U.S. Army Health Clinic, room B06; 11 a.m. All DOD beneficiaries are welcome. Topics to include: access to care at KUSAHC; TRICARE referrals; Exceptional Family Member Program; pre-authorizations and billing; dental services and veterinary services. For more information, contact Sgt. 1st Class Anthony Woods at anthony.l.woods3.mil@mail.mil or call 410-278-1724.

FIRE MARSHALL TRAINING JULY 14

Bldg. 4403. 9 a.m. to noon. Hosted by the APG Directorate of Emergency Services Fire Protection & Prevention Division. Attendees will receive a certificate of completion at the end of the class. For more information, contact Inspector Loren Brown at 410-278-1128.

FIRE EXTINGUISHER TRAINING JULY 14

Bldg. 4403. 10 a.m. to noon and 1 to 3 p.m. Hosted by the APG Directorate of Emergency Services Fire Protection & Prevention Division. For more information, contact Ernie Little at 410-306-0583 or ernest.w.little.civ@mail.mil.

EEO HR FOR IMCOM SUPERVISORS TRAINING SEPTEMBER 22

Bldg. 3147. 8 a.m. to 4:30 p.m. Registration is required. Maximum of 50 people per class. For more information, contact Charles Gilmore at charles.l.gilmore3.civ@mail.mil or 410-278-0130.

HEALTH & RESILIENCY

APG NORTH DENTAL CLINIC CLOSED JULY 13

For more information, contact Sgt. Jerry Willis at 410-278-1794 or jerry.h.willis2.mil@mail.mil.

SUMMER PREPAREDNESS INFO SESSION JULY 14

Myer Auditorium, Bldg. 6000. 11:30 a.m. to 12:30 p.m. Hosted by C4ISR Wellness Committee, open to all. Session will cover food and sun safety for summer, as well as tips for summer exercise and avoiding heat exhaustion. For more information, contact Tiffany Grimes at 443-861-7901 or tiffany.l.grimes.civ@mail.mil.

CPR & AED TRAINING CLASSES JULY 21

Bldg. 3147, room 205. Classes at 9 a.m. and 1 p.m. Hosted by the APG Directorate of Emergency Services. Classes are open to the

entire APG community. For more information, contact Mike Slayman at 410-306-0566.

CREATING A SOLID SPENDING PLAN INFO SESSION JULY 21

Bldg. 6001, 2nd floor, room 224. 11:30 a.m. to 12:30 p.m. Hosted by C4ISR Wellness Committee, open to all. Class instructor will spell out in step-by-step detail how to draw your own financial blueprint for action. Each participant will come away with a personal action plan, ideas for how to save money, and a better understanding of how to track where your money goes. NON C4ISR employees must bring their CAC CARD to gain access to the building. For more information, contact Tiffany Grimes at 443-861-7901 or tiffany.l.grimes.civ@mail.mil.

C4ISR HEALTH EXPO & FITNESS CLASSES JULY 28

Mallette Mission Training Facility, Bldg. 6008. 11 a.m. to 1 p.m. Hosted by C4ISR Wellness Committee, open to all. Event will include health screenings and info from various local health and wellness vendors. Fitness classes are: Butts & Guts, 11 to 11:30 a.m.; Cardio Kick, 11:30 a.m. to noon; Zumba, 11:45 a.m. to 12:15 p.m.; and Pilates, 12:15 to 12:45 p.m. For more information, contact Tiffany Grimes at 443-861-7901 or tiffany.l.grimes.civ@mail.mil.

NUTRITION AWARENESS DAY JULY 29

APG Commissary, 10 a.m. to 2 p.m. Community Health Promotion Council to host event exploring: how to become a savvy food shopper to support healthy eating habits, learn strategies to incorporate seasonal produce into meals and how to decipher food labels. Reps from TRICARE, Blue Cross Blue Shield, KUSAHC and the Army Wellness Center will be available.

EDGEWOOD DENTAL CLINIC CLOSED AUG. 11

For more information, contact Sgt. Tracy Glover at tracy.s.glover4.mil@mail.mil.

FAMILY & CHILDREN

APG VACATION BIBLE SCHOOL JULY 18-22

APG North (Aberdeen) main post chapel. 5:30 to 9 p.m., July 18; 6 to 9 p.m. all other days. Registration is now open for the free, week-long program for pre-school to sixth grade children and youth. Volunteers are also needed.

To register or sign up as a volunteer, contact John Edwards at john.m.edwards3.civ@mail.mil or call 410-278-2516.

ANNOUNCEMENTS & MISC.

APG OUTSTANDING WOMEN NOMINATION DEADLINE JULY 8

Nominations for APG's Outstanding Woman of Year, Outstanding Supervisor of the Year and Activity Most Supportive of Federal Womens Program goals are now being accepted. Nominations may be submitted by an employee or management official; nominees are not required to be members of the FWP. Awards will be presented during the APG Woman's Equality Day observance set for Aug. 24 at 10:30 a.m., at the Myer Auditorium, Bldg. 6008. An independent panel will evaluate the qualifications of each nominee against specified criteria. For more information, and the nomination format, contact Tiffany Cervantes, tiffany.n.cervantes.civ@mail.mil and Teresa Rudd, teresa.d.rudd.civ@mail.mil.

FEDERALLY EMPLOYED WOMEN SCHOLARSHIP DEADLINE JULY 25

The Maryland Tri-County Chapter of Federally Employed Women (FEW) awards the one-time \$500 Dottie Dorman Working Woman Scholarship each year to a woman who is currently employed in federal service and working in the Harford, Cecil or Baltimore County areas.

Individuals applying for the scholarship must be currently enrolled at a college or university pursuing their first undergraduate or first graduate degree. For the application or additional information, contact Karen Jobs at kwjobs@gmail.com, 410-436-4429; or Michelle Williams-Gibson at michelle.williams-gibson.civ@mail.mil, 443-861-4613.

SPORTS PHYSICALS AT KUSAHC

June is Sports Physical Month at the Kirk U.S. Army Health Clinic. Call 410-278-5475 to make an appointment for have your child's sports or camp physical.

APG SOUTH 2016 WATER MAIN FLUSHING

The APG South (Edgewood) 2016 water main flushing schedule is as follows: July through Sept.: E3000-E4000 area; Aug. 11-13: APG South housing area, E1220-E1300 area, and child care center; Oct. through Dec.: E5000 area; Nov. 10-12: APG South housing area, Austin Road. For more information, contact Robert Warlick at 410-436-2196 or robert.w.warlick2.civ@mail.mil.

**MORE
ONLINE**



More events can be seen at www.TeamAPG.com

MORALE, WELFARE & RECREATION



Upcoming Activities

Learn more about APG MWR activities and services by going online at www.apgmwr.com.

LEISURE & RECREATION

JERSEY BOYS DISCOUNT TICKETS

Tickets are available for the Sept. 29 performance of Jersey Boys at the Hippodrome Theater in Baltimore starting at 8 p.m. Tickets for upper balcony are \$39 and available until supplies last. The show is not appropriate for children.

To purchase tickets please visit MWR Leisure Travel Services at the APG North (Aberdeen) recreation center, Bldg. 3326. For questions call 410-278-4011/4907 or email usarmy.apg.imcom.list.apgr-usag-mwr-leisuretravel@mail.mil.

INSTALLATION SOCIAL JULY 21

APG South (Edgewood) recreation center. 4:30 to 6:30 p.m. Complimentary refreshments and cash bar. For more information, call 410-278-3062.

CHILD & YOUTH SERVICES

FAMILY MOVIE NIGHT JULY 8

APG North (Aberdeen) recreation center. 6 p.m. "Zootopia." Free movie, giveaway, snacks, and craft activity. For more information, call 410-278-4011.

FAMILY MOVIE NIGHT JULY 22

APG South (Edgewood) recreation center. 6 p.m. "Kung Fu Panda 3." Free movie, giveaway, snacks, and craft activity. For more information, call 410-278-4011.

ACS & RESILIENCY FAMILY READINESS LIAISON

(FRL) TRAINING JULY 15

ACS Bldg. 2503, 2nd floor classroom. 1:30-4 p.m. Session provides information about the roles and responsibilities of the FRLs, their role in relationship to the FRG, their function in working with Army community agencies and the civilian community. To register, call 410-278-2180.

DOLLARS AND SENSE JULY 28

ACS Bldg. 2503, 2nd floor classroom. 11:30 a.m. to 12:30 p.m. Session provides participants with a better understanding of their relationship with money and provide tools needed to control their spending. To register, call 410-278-2453.

SPORTS & RECREATION KAYAK CLASSES JULY 13 & 14; AUG. 11 & 12

Spesutie Island Marina. 6 to 8:30 p.m. \$60 per person. Open to all eligible MWR patrons. Registration required, deadline is three days before class. Five days prior to class, excursion must meet minimum participants to take place. To register, call 410-278-4124/5789/2134/2135 or email usarmy.apg.imcom-fmwrc.list.usag-mwr-outdoor-rec@mail.mil.

KAYAK EXCURSIONS JULY 29; AUG. 27

Excursions leave from Skippers Point. Cost is \$40 per person. 8 to 11 a.m., June 25; 6 to 8:30 p.m., July 29; 8 to 11 a.m. Aug. 27. Open to all eligible MWR patrons. Registration required, deadline is three days before class. Five days prior to class, excursion must meet minimum participants to take place. To register, call 410-278-4124/5789/2134/2135 or email usarmy.apg.imcom-fmwrc.list.usag-mwr-outdoor-rec@mail.mil.



Blues on the Bayou
Steppingstone Farm Museum, Havre de Grace, MD \$22

**Blues and Brews Festival
TICKETS**
Saturday, July 23, 2016, 1-8 p.m.

Featuring: Blue Jay Slim & the Tone Blasters • Markey Blue • Zydeco-a-Go-Go
To purchase, visit MWR Leisure Travel Services at the AA Rec Center, BLDG 3326.
For questions call 410-278-4011/4907 or email us at: usarmy.apg.imcom.list.apgr-usag-mwr-leisuretravel@mail.mil

For more information visit: SteppingstoneMuseum.org



Learn more about APG MWR activities & services by going online at www.apgmwr.com and downloading the FMWR Directory.

inside

STEM

More than 23,000 students participate in eCYBERMISSION 2016; CERDEC honored for top virtual participation.

eCYBERMISSION | B2

ENERGY

CERDEC supports efforts to reduce energy consumption at base camps.

Army | B3

COMMITMENT

A CECOM computer scientist explains her dedication to serving as an Army civilian.

Why We Serve | B4

newsbrief

ANTITERRORISM AWARENESS: INSIDER THREAT PROGRAM

U.S. Army STAND-TO!
Provided by the Office of the Provost Marshall General of the U.S. Army

The Insider Threat program continuously synchronizes the threat and protection-related initiatives to deter, detect, and mitigate potential insider threats in order to protect Army personnel, information, and resources. The Army's Insider Threat Program spans all operating environments and the full spectrum of threats, from unauthorized disclosures to acts of physical violence.

This program assists anti-terrorism officers, anti-terrorism coordinators, and leaders at all levels who are responsible for planning, executing, and measuring performance of the Army's activities to counter the insider threat.

This is the focused Army antiterrorism awareness theme for the fourth quarter (July through September) fiscal year 2016 (4Q/FY16).

The Army must protect the force and safeguard classified materials and resources. The antiterrorism Insider Threat products created by the Army assists the force to report any suspected threats. This program provide guidance and direction to the leaders on how to protect the force. The products also offer guidance and direction to leaders on how they can help protect the force.

For more information, visit <https://army.deps.mil/army/sites/PMG/OPMG/OPS/antiterror/ATEP/default.aspx> (CAC-required. Select email certificate), or <https://www.mymilitary.com/familyprogramsandservices/iwatch-program/default.aspx>.

online

www.TeamAPG.com/APGNews

facebook.com/APGMd

twitter.com/USAGAPG

flickr.com/photos/usagapg/

ICE system
<http://ice.disa.mil/>
Facebook, <http://on.fb.me/HzQlow>



Photo by Capt. Meredith Mathis, U.S. Army I Corps

Spc. Spencer Secord (right), an intelligence analyst assigned to D Company, 14th Brigade Engineer Battalion, 2-2 ID, helps camouflage Sgt. Alfredo Munoz, a cryptologic linguist also assigned to D Company, during a cyber training exercise at Joint Base Lewis McChord, Oct. 20, 2015.

Attracting new cyber tech

Army events tag-team to partner with public, private sectors

By **CLAIRE HEININGER**
SoSEI

equips a growing cyber force, the Army has established a series of events to quickly evaluate, integrate – and in some cases, purchase – cyber capabilities. As part of the Army’s broader cyber equipping strategy, the distinct but linked events are fueling the early experimentation that leads to more agile and informed procurement.

Cyber Blitz. Cyber Quest. Cyber Innovation Challenge. Feeling the whiplash? Good – then hackers and attackers will, too.

Seeking to attract cutting-edge technologies from the public and private sectors as it

“We have to understand what is already out there,” said Portia Crowe, director of cyber operations at the Army Program Executive Office for Command, Control and Com-

See **CYBER**, page B7

West Point cadets study at ATC

Summer program connects cadets to STEM projects

By **COURTNEY GILBERT**
ATEC

The U.S. Army Test and Evaluation Command, or ATEC, partnered with the U.S. Army Research, Development and Engineering Command, or RDECOM, to support the ongoing West Point Cadet Summer Research Program, or CSRP, by providing test and evaluation projects to cadets for two to three-week rotations during the summer.

CSRP is part of the Advanced Individual Academic Development, or AIAD, program at West Point that places cadets on three-week summer assignments in research, development, test and evaluation, or RDT&E, activities. CSRP targets upperclassmen in math, science and engineering related majors. The AIAD program develops cadets’ critical thinking skills while they’re working on projects focusing on real world research and science, technology, engineering and mathematics, or STEM, situations.



Photo by John Heiser, ATEC

West Point Cadet Kenneth Rau collects measurements of the backface deformation, or BFD, of a shot on a hard body armor plate using a FARO arm, a scanning device used to measure non-uniform surfaces during testing, May 26 at the Light Armor Range Complex on Aberdeen Proving Ground. BFD measurements are a significant factor in the evaluation of body armor plates.

See **CADETS**, page B7



Nighttime reconnaissance circa 1957 brings battlefield advantage

The Signal Corps Engineering Laboratories at Fort Monmouth, New Jersey, worked tirelessly to give Soldiers every possible advantage in battle. One of the earlier innovations pictured here was “Night-hawk,” a photo-reconnaissance system capable of night-time photography, circa 1957.

Today at APG, researchers and scientists work just as tirelessly to ensure U.S. Soldiers in the 21st century never have a fair fight on the battlefield.

For more information about the history of the Signal Corps or the Communications-Electronics Command, visit the CECOM Historian website and blog at <http://cecom.army.mil/historian> and <http://cecomhistorian.armylive.dodlive.mil/>.

Courtesy photo



Mentors, teachers fuel student success

By **ROGER TEEL**
RDECOM

The annual eCYBERMISSION National Judging and Educational Event is always brimming with high-energy, especially when the winning teams are announced at the National Awards Luncheon, held in Leesburg, Virginia, June 24.

The fanfare is richly deserved, as the four winning teams are judged the nation’s best entries in a year-long, web-based science, technology, engineering and mathematics competition that is free to students in grades six through nine.

Also in the limelight are the contributions of the science teachers who deliver their students to success as team advisors.

“It all about the kids, really,” said Laura Wilbanks, a fourth and fifth grade science teacher from the tiny town of Whiteface, Texas (population 430). Wilbanks has led a team to the eCYBERMISSION national finals 11 times, beginning in 2003 when eCYBERMISSION was in its second year.

“The kids make all of the decisions about their projects,” Wilbanks said. “I usually only get involved if they don’t see the big picture, if they don’t see larger, national implications of their project.”

Her winning seventh grade team this year featured team members Elizabeth Casarez, Kaden Moses, Blade Henry and Kaylah Deavours. Their project, called “Silver Bullet,” looked for cost-effective ways to heal wounds in a world with antibiotic-resistant bacteria. Their results identified colloidal silver as the material with the largest zone of inhibition and greatest ability to fight bacteria.

Since 2012, the National Science Teachers Association has partnered with the Army Educational Outreach Program , or AEOP, to administer eCYBERMISSION. It is a partnership not lost on the U.S. Army Research, Development and Engineering Command’s AEOP Cooperative Agreement Manager Louie Lopez. RDECOM manages the execution of AEOP on behalf of Deputy Assistant Secretary of the Army for Research and Technology and the Army S&T community.

“The eCYBERMISSION program experienced incredible growth since NSTA became partners,” Lopez said prior to the awards luncheon at the National Conference Center. “When they came onboard they brought their network of science teachers with them, and every year since we’ve seen the program grow. The collaboration among the Army, our consortium partners within academia, industry and not-for-profit organizations, our scientists and engineers who serve as judges and mentors, and the science teachers in the NSTA has provided a great deal of momentum to the program.”

This year, 5,768 teams and 23,323 students from 52 states and territories vied for eCYBERMISSION honors. Lopez said these numbers will continue to grow



(Left) Members of “Las Chicas de Puerto Rico” react as their name is called as a national winner of this year’s eCYBERMISSION, during the National Awards Luncheon, June 24. The team investigated the effects of Saharan dust levels on local respiratory issues and how to create an effective warning system for people who suffer from asthma in Puerto Rico.

(Below) Students participate in the Instant Challenge Competition during the eCYBERMISSION National Judging and Educational Event, June 20-24. eCYBERMISSION is a year-long, web-based science, technology, engineering and mathematics competition that is free to students in grades six through nine, executed by RDECOM and the Army Education Outreach Program on behalf of Deputy Assistant Secretary of the Army for Research and Technology.

Photos by Conrad Johnson, RDECOM

with NSTA and other agency support and involvement.

Student winners

Eighty-six students on 23 teams were national finalists or STEM-In-Action grant winners. Finalist teams represented 15 states, including a first-ever team from Montana, a first-time team from Puerto Rico, and the first team from Shanghai American School in Shanghai, China.

The Puerto Rican team, affectionately named “Las Chicas de Puerto Rico,” from Ramey School in Aguadilla, captured first place for sixth grade teams. Team members Bria Roettger, Janat Khan, Janeliz Guzman Acevedo and Luz Figueroa-Rodriguez investigated the effects of Saharan dust levels on local respiratory issues and how to create an effective warning system for people who suffer from asthma in Puerto Rico. Their team advisor is Ingrid Rapatz-Roettger.

The eighth grade winners were “Artemis” from the Academic Center of Science in Frisco, Texas. Artemis team members Sonya Ganeshram, Ashwin Koduri and Rushil Chander developed a new safety device for the hearing-impaired to help notify a user of dangers. Artemis’ team advisor is Bhagyashri Chander.

“Myto-Critters,” from Taos Middle/High School, Taos, New Mexico, were ninth grade winners. Team members Sierra Ferguson, Ashley Martinez and Zachary Ginn investigated the impact of antibiotics on mitochondrial function and health in comparison to natural antibiotics. Their team advisor is Laura Tenorio.

“There are few programs of the magnitude and scope of eCYBERMISSION and AEOP for making a lasting impact in STEM development on American youth throughout the country,” said Dr. David L. Evans, Executive Director of the NSTA and People’s Choice award presenter. Evans heads NSTA, the world’s largest professional organization representing science educators of all grade levels.

The People’s Choice Award, voted by an online audience of more than 10,000



viewers, was presented to “Pandanet,” a sixth grade team from Greenbriar West Elementary School in Fairfax, Virginia. Team members Siddharth Krishnan, Aarav Bajaj, Aryan Kumawat and Siddharth Tibrewala each received iPad minis for their win. Team advisor is Meera Krishnan.

Army support to eCYBERMISSION

Erica Bertoli, from the Army Communications-Electronics Research, Development and Engineering Center, was named eCYBERMISSION Virtual Judge of the Year. Bertoli serves as team lead for CERDEC’s Educational Outreach Program where she leads a year-round STEM program serving 8,000 students across Harford and Cecil counties in Maryland. Bertoli was recognized for her efforts in reviewing 122 eCYBERMISSION Mission Folders as well as encouraging fellow virtual judges throughout CERDEC. She also served as emcee for the National Showcase and Awards Luncheon at this year’s NJEE.

Kurt Metcalf from the Army Corps of

Engineers was named Ambassador of the Year. Metcalf serves as the National Program Manager for the Employment and Compensation Division, leading USACE policy development in the areas of Pathways student intern programs, Wounded Warrior/Veteran programs, Corporate Outreach and Recruitment, Overseas Employment initiatives and STEM outreach.

The CyberGuide of the Year award was presented to Melissa Roth, who was unable to attend the luncheon. Roth is a research engineer at Army Natick Soldier Research, Development and Engineering Center and is currently working on creating flame-retardant uniforms and on new helmet materials to protect Soldiers against head injuries. Her recognition stems from her efforts during eCYBERMISSION Team Talk and Live CyberGuide Chats.

CERDEC was also recognized as the outstanding organization volunteer award-ee. CERDEC Technical Director Henry Muller accepted the award from Jeffrey Singleton, Director for Basic Research, Office of the Secretary of the Army (Acquisition, Logistics & Technology).

CERDEC takes top honor for virtual judge participation

By **KEN GOSS**
CERDEC

For the second consecutive year, the Army’s Communications-Electronics Research, Development and Engineering Center, or CERDEC, was awarded the highest level of participation by an organization in reviewing student projects for an Army Educational Outreach Program, or AEOP, competition, which concluded March 20.

CERDEC had 58 active judges consisting of CERDEC civilians, military personnel and contractors, volunteering their time to review and judge 961 mission folders for the eCYBERMISSION competition. This award was presented at a ceremony during the eCYBERMISSION National Judging and Educational Event in Leesburg, Virginia June 20-24.

Virtual judges review thousands of projects submitted by sixth through ninth grade students from across the nation, which address a specific mission challenge. eCYBERMISSION is part of the Army’s science, technology, engineering and mathematics, or STEM, initiative, answering the nation’s need for increased national STEM literacy and expanding STEM education opportunities.

“It’s become a point of pride that CERDEC leads the field in supporting

eCYBERMISSION every year,” said Erica Bertoli, outreach team lead for CERDEC.

Even before AEOP created the volunteer incentive competition, Bertoli emphasized how, from the top down, CERDEC cares about outreach.

“CERDEC’s drive and commitment to the future of our workforce isn’t an afterthought. It’s a clear goal that we’re able to ensure our organization’s success by supporting STEM initiatives like eCYBERMISSION,” Bertoli said.

“CERDEC is the tip of the spear and has been doing STEM outreach before most of the current staff was in place. I have never known a director of this organization to not take the STEM mission seriously; each has put resources and the power of their word as director to encourage STEM outreach and really make it culturally imperative that we, as an organization, are grooming our next generation. It’s a phenomenal place to work as an outreach professional,” she said.

This year CERDEC’s participation in the event comes full circle. Frank Bohn Jr., from CERDEC’s Space and Terrestrial Communications Directorate, was one of this year’s virtual judges and served as a Subject Matter Expert, or SME, mentor for students at the nation-



U.S. Army photo

Henry Muller (left), CERDEC director, accepts the award for the highest level of participation by an organization in reviewing student projects for the eCYBERMISSION program, during the eCYBERMISSION National Judging and Educational Event in Leesburg, Virginia June 20-24.

al judging event. He was also a national finalist in this event years ago when he was in 8th grade.

“The kids were excited that I had been a part of it. They have been asking all sorts of questions about what I did then, what I do now, and how it is that I determined my path. By explaining to them my eCYBERMISSION experience, my education, and my experience with CERDEC, they have come to understand how big of a step forward participating in this program is for them,” Bohn said.

Bohn joined other scientists and engineers, as well as noncommissioned officers to assist national finalists at each grade level.

“Having SMEs at this event is very beneficial to these children. They get the

opportunity to see Army technologies and ask questions directly to the people that are developing them. The children get very excited to see these new technologies and it is amazing to see how quickly the children develop a good understanding of how they work,” Bohn said.

eCYBERMISSION judges across the nation dedicate a huge commitment of time and energy to help make the event successful, said Bertoli.

“The people who are doing this don’t often have the flexibility to sit at their desk and work on it. They’re doing this in between taking care of their homes and spending time with their families, friends and other commitments,” Bertoli said. “They’re doing it because they want to, not because they have to.”

Army reducing fuel demand, improving energy efficiency at base camps

By **ALLISON BARROW**
CERDEC

The Army continued to demonstrate technologies to improve energy efficiency at base camps during an integrated exercise held at Fort Devens, Massachusetts from mid-May to June 17.

This exercise at the Base Camp Integration Laboratory, or BCIL, was a part of the Sustainability Logistics Basing – Science Technology Objective Demonstration, or SLB-STO-D, which has the overall goal of reducing fuel and water resupply demand and waste generation at small base camps. The exercise looks to not only increase self-sufficiency of these camps, but also reduce the number of fuel truck convoys, which may be targeted while delivering resupplies.

“It takes a team of teams,” said Jyujji Hewitt, deputy director of the U.S. Army Research, Development and Engineering Command, or RDECOM, referring to the SLB-STO-D effort during a demonstration day June 15. “It’s really all focused on not only our Soldiers, but our joint force.”

This team effort is led by RDECOM and managed by the Natick Soldier Research, Development and Engineering Center. The Communications-Electronics Research, Development and Engineering Center, or CERDEC, manages the fuel reduction effort, with the goal of reducing fuel demand by 25 percent.

“We introduced two new fuel reduction technology demonstrators as well as two returning systems with updated designs based on lessons learned from prior STO Demos and capability upgrades,” said Selma Matthews, fuel reduction thrust lead for SLB-STO-D and senior research engineer in CERDEC’s Command, Power and Integration Directorate’s Power Division.

Energy Informed Operations

CERDEC continued to test its Energy Informed Operations, or EIO, tactical microgrid architecture, which aims for increased power availability and reliability, while reducing generator fuel usage and maintenance. The EIO microgrid’s open architecture allows power resources to easily plug-in and play into the grid



RDECOM photo

Army leadership saw a demonstration of the Energy Informed Operations tactical microgrid architecture, which aims for increased power availability and reliability, while reducing generator fuel usage and maintenance, during a demonstration day at Fort Devens, Massachusetts June 15.

and be managed by the user through a software application that helps ensure energy efficiency.

CERDEC engineers applied lessons learned from previous exercises to improve the user application as well as a connected battery to enable the grid to have better power quality and better response to different power loads, said Michael Gonzalez, CERDEC CP&ID Power Division engineer.

“We’ve now incorporated better analysis so we have recommendations built-in [to the application],” Gonzalez said. “We also have maintenance so operators, Soldiers, can pull up the application and put ‘device is taken down for maintenance.’ What we got from previous testing events was a lot of features that we’ve implemented this year.”

The EIO microgrid powered the south side of the camp at the BCIL, which included billets, laundry and quality of life stations. The EIO was able to sustain power for the required 10 straight days, Gonzalez said.

The east side of camp, which consisted of Force Provider assets -- shelters,

laundry and an all-electric kitchen -- was powered by the Towable 100 kilowatt Generator Set, a generator that reduces fuel consumption by varying the engine speed to match the power load.

Power Planning with AutoDISE

This year, both the EIO microgrid and the Towable 100 KW GenSet were accompanied by a power planning tool called the Auto Distribution Illumination System, Electrical, or AutoDISE, system.

AutoDISE is an operational energy based computer modeling and simulation tool, which enables users to prepare tailored power and HVAC layouts for the mission loads, equipment and personnel at a particular camp.

Using the AutoDISE library, Soldiers can build a base camp through a pull-down menu that has associated power characteristics for various loads they’d find in the camp. The tool will inform them of what to expect before they start powering up the camp, Matthews said.

“We have evolved to the point that it does calculations for the first sergeant or

whomever is responsible for setting up a base camp,” Matthews said. “They go in, they use this, they use the calculations that are embedded to power the HVAC layouts and the distribution of electric power throughout the camp.”

This year a new water and waste water planning tool was added to the AutoDISE system.

“At the BCIL, it was used to plan the integration of new technologies to ensure that they can be implemented, to determine the equipment required for implementation, and to also analyze and see the impact that new technologies would have on base fuel consumption to determine the optimum configuration for reducing fuel,” said Christopher Wildmann, CERDEC CP&ID Power Division electrical engineer.

Wildmann said they have received positive Soldier feedback and are continually improving the tool to meet Soldiers’ power needs in the field.

“We take power for granted in our daily lives, we just plug whatever we want into whatever receptacle, we don’t care if we run out of receptacles or if we overload a circuit,” said Wildmann. “So throwing someone into that arena where they do have to think about that is quite overwhelming. AutoDISE helps to plan and lay out the power grid, and see what circuits would overload instead of actually plugging things in until something trips, and then starting over.”

The SLBD-STO-D has allowed CERDEC venues for field-based risk reduction and the opportunity to assess scalability of technologies and alternative solutions at reduced cost and risk, said Matthews.

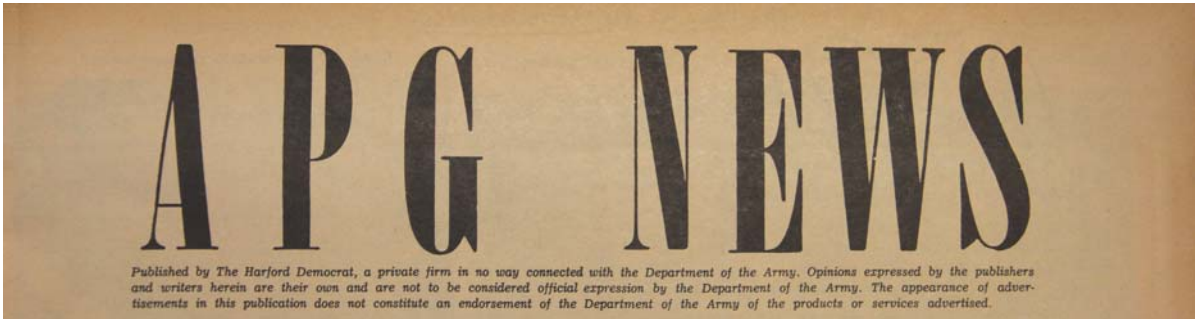
Another benefit was having Soldiers on site to use the technology and provide feedback on its usefulness and ease of use.

“Soldier interaction is when we learn how to make our product or system more intuitive, easy to understand and more focused on the operation or mission need,” said Gonzalez.

SLB-STO-D is scheduled to conclude in 2017, and CERDEC will continue to develop the fuel reduction technologies it demonstrated, Matthews said.

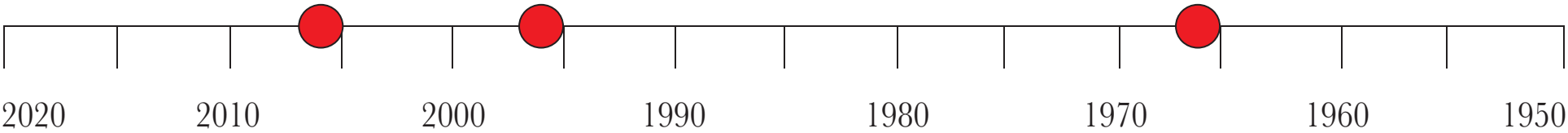
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THIS WEEK IN APG HISTORY



Take a look back in time as the APG News explores what made the headlines around APG during this week 10, 25 and 50 years ago. This week’s APG News masthead is from 1965.

By **YVONNE JOHNSON**, *APG News*



10 Years Ago: June 6, 2006



Lynard Skynyrd’s newest member Mark Matejka, left, and founder Gary Rossington, right, strum a guitar duet during the band’s Army Concert Tour stop at APG.

25 Years Ago: July 10, 1991



Spc. Robert McKennan of the 523rd Military Police Company checks the new Kuston Electronic Speed Board set up in Patriot Village.

50 Years Ago: June 7, 1966



Geraniums and petunias circle the three inch seacoast defense gun in front of the post headquarters Bldg. 310

CECOM computer scientist proud of government service

By **MARY B. GRIMES**
CECOM

Amy Nguyen believes in giving back. An employee with the U.S. Army Communications-Electronics Command, known as CECOM, she spends her working days as a dedicated computer scientist in the Software Engineering Center, or SEC, Intelligence Electronic Warfare and Sensors Directorate, Army Reprogramming Analysis Team Program Office, called ARAT-PO, at APG.



Nguyen

With 16 years of federal service to her credit, Nguyen said she believes that everyone can make a difference, including herself. “I’m motivated to work hard and to make a big difference in the workforce,” Nguyen said. “I have a sense of pride in what I do because I believe my job is important to my organization and to the warfighter.”

Currently the project lead for the Counter Radio Controlled Improved Explosive Device, or RCIED, Electronic Warfare (CREW) Duke V2/3, Nguyen is responsible for the software sustainment of the Duke V2/3 system, and the threat load development that provides algorithm to effectively jam RCIEDs and provide force protection to Soldiers.

Nguyen’s commitment to service is reflected in the various duties and responsibilities that have shaped her career path. During a tour with the Department of Homeland Security, Nguyen served as project lead to develop an internet anal-

ysis tool that analyzed internet traffic to determine stress points that might affect an emergency Voice over IP call to support first responders during natural disasters. While working with the Defense Information System Agency (DISA) in Falls Church, Virginia, she served as the Test Lead for the Global Combat Support System and Joint Task Force projects. There, she was responsible for planning and executing verification and acceptance test events for the logistic planning software tool.

Like many U.S. government employees, Nguyen said education has also played a pivotal role in her career success. A graduate of the University of Maryland, she said that in her last two years of college the National Communications System hired her as a Co-op. The NCS became part of the U.S. Department of Homeland Security after Sept. 11, 2001.

“Upon graduating from college, I continued working for the federal government in the internship program because I enjoyed working for the government,” she said.

As if these assignments were not challenging enough, early in her career with CECOM-SEC, Nguyen served as the acting Threat Analysis Branch Chief.

“In that position, I was responsible for all threat requirements, verification and validation tests of the ARAT aviation Mission Data Set,” she said.

If it appears that Nguyen has shouldered a lot, then she would be the first to say that it’s all been worthwhile.

“When my family and I first came to this country, we didn’t have anything, but the government provided us assistance that allowed me to have an educa-



I’m where I am because the U.S. has given me an opportunity for a better life. This is the reason why I serve in the government. I do it because I want to give back and I want to contribute to the men and women in uniform who make profound sacrifices in order to protect us.

Amy Nguyen

CECOM Software Engineering Center Computer Scientist

tion,” she said. “I’m where I am because the U.S. has given me an opportunity for a better life. This is the reason why I serve in the government. I do it because I want to give back and I want to contribute to the men and women in uniform who make profound sacrifices in order to protect us.”

Nguyen maintains a work ethic that speaks to her commitment to selfless service. Whatever her degree of success, she attributes it to those who have encouraged and supported her along the way.

“I have had many great supervisors who inspired me and helped me to realize early on that working for the government

is not just a job, but a responsibility to do the right thing for the government and the Soldiers,” Nguyen said. “Especially working for the Army in the force protection mission, every decision I make has an impact on the life of someone else.”

Offering a few last words regarding why she serves, Nguyen said, “I go to work every day knowing that the men and women in uniform are protecting and preserving the freedom for me and my children. I would encourage everyone to have pride in what you do, and do the right thing because there will always be someone out there who will look up to you and follow you.”

WORD OF THE WEEK

Synecdoche

Pronounced: si-nek-duh-kee|

Part of Speech: Noun (Rhetoric)

Definitions:

1. A literary device, or figure of speech, in which a part of something represents the whole or it may use a whole to represent a part.

Examples in common use

- The word “bread” refers to food or money as in “Writing is my bread and butter” or “sole breadwinner.”
- The phrase “gray beard” refers to an old man.
- The word “sails” refers to a whole ship.
- The word “suits” refers to businessmen.
- The word “boots” usually refers to soldiers.
- The term “coke” is a common synecdoche for all carbonated drinks.
- “Pentagon” is a synecdoche when it refers to a few decision makers.

By **YVONNE JOHNSON**, *APG News*

Source(s): <http://www.oxforddictionaries.com>; <http://dictionary.reference.com>

ACRONYM OF THE WEEK

JPEG

Joint Photographic Experts Group

JPEG is a commonly used method of lossy compression for digital images, particularly for those images produced by digital photography. The degree of compression can be adjusted, allowing a selectable tradeoff between storage size and image quality. JPEG typically achieves 10:1 compression with little perceptible loss in image quality. The term “JPEG” is an acronym for the Joint Photographic Experts Group, the joint committee between ISO/IEC JTC1 and ITU-T (formerly CCITT) that created the JPEG, JPEG 2000, and JPEG XR standards.

By **YVONNE JOHNSON**, *APG News*
Source(s): www.wikipedia.org

How are we doing? E-mail comments and suggestions for the APG News to usarmy.apg.imcom.mbx.apg-pao@mail.mil

Army program overseeing radio waveforms changes hands

By **ARGIE SARANTINOS-PERRIN**
Project Manager Tactical Radios, PEO C3T

With four master’s degrees and 20 years of active duty experience in the Army, Dave Williamson, product manager, or PdM, for Waveforms, is ready for his next assignment: Retirement.

However, sitting back and taking it easy is not what Williamson said he has in plan.

“I look forward to moving back to San Diego to be with my family again and becoming a pastor of a church,” Williamson said.

The charter for PdM Waveforms was passed from Williamson to Lt. Col. Timothy Sugars during a June 28 ceremony at the Meyer Auditorium on APG North (Aberdeen).

Sugars most recently served as the Army Test and Evaluation Command System Team Chair for the Business Information Technology Modernization Auditability Program and the Business Acquisition Management Program. The event was hosted by Col. James Ross, project manager for Tactical Radios, assigned to the Program Executive Office for Command, Control and Communications-Tactical.

“While the Army is procuring and fielding the next generation of software-defined radios, it is also continuously improving the waveforms and developing new ones that will extend communications even further,” Ross said. “In serving as the PdM for Waveforms, Lt. Col. Sugars will be providing Soldiers with next generation technology that will make digital communications possible.”

While Soldiers rely on their radios to talk, send texts and share data, it is the waveforms that enable the radios to function and perform different tasks. For instance, some waveforms provide network connectivity between Soldiers on the ground and in the air, and other waveforms provide connectivity between Soldiers who are spread across large distances or in mountainous areas. The waveforms work by drawing on available spectrum, which provides secure, wireless networking services for radios.

PdM Waveforms is responsible for sustaining, testing and improving the Soldier Radio Waveform, known as SRW, Wideband Networking Waveform, or WNW, Single Channel Ground and



Col. James Ross, center, project manager for Tactical Radios, passes the Product Manager Waveforms charter to Lt. Col. Timothy Sugars, right, during a ceremony held on APG North (Aberdeen), June 28. Outgoing PdM Waveforms Dave Williamson, left, received the Commanders Award for Civilian Service for his work on the program. Williamson, who is retiring, served 20 years in the Army.

Photo by
Denise Rule,
PEO C3T

Airborne Radio System, called SINCARS, Crypto Modernization and Enterprise Over The Air Management but it also develops new waveforms, including two that are currently being developed – the SRW Narrowband, which will have a small bandwidth but a greater range, and the WNW Dynamic Spectrum Analysis, which is a dynamic, on-the-move waveform that will automatically transfer waveforms to unused frequencies.

The waveforms are stored in the Waveform Information Repository, or WIR, which is maintained by the Joint Tactical Networking Center, and they are available to government program offices and industry partners to port onto their platforms. By porting government-owned waveforms from the IR onto radios, vendors do not have to create their own waveforms, which saves time, reduces cost and schedule and insures that all of the radios that use the common Department of Defense authorized

waveforms are interoperable and secure. The waveforms can also be used by other services, including the Air Force, Navy and Marine Corps.

One of the highlights during Williamson’s seven-year tenure with PdM Waveforms was moving the product office from San Diego, California to APG. While there is a small team still in San Diego, Williamson was responsible for building a team in Maryland, which included hiring and training new employees.

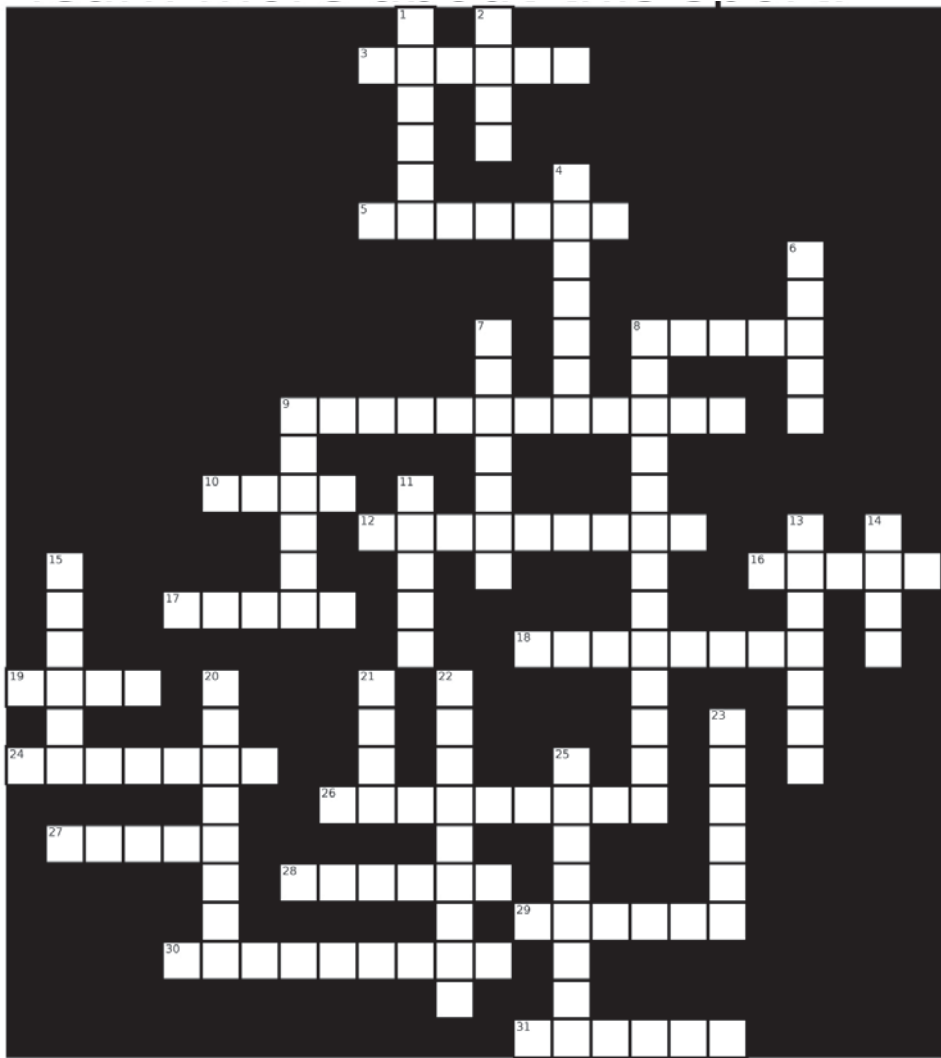
In addition to managing the APG and San Diego teams, Williamson oversaw two Reference Information Laboratories where the waveforms are tested - the SRIL or SRW lab, located at APG and the WRIL or WNW lab in Charleston, South Carolina. While the SRW waveform is used by individual Soldiers and small units to exchange voice and data, the WNW provides approximately ten times as much data throughput as

the SRW.

Prior to his current position, Williamson held a joint assignment with the Air Force as the Deputy Product Manager for Global Positioning System, Interim Product Manager GPS, Deputy Project Manager Navigation Systems, Army Representative to the Air Force GPS Wing and Air Force Program Manager for all Current User Equipment. During this time, he earned the coveted Air Force Exemplary Civilian Service Medal in 2008.

Now that he has passed the charter, Williamson will return to San Diego and combine his love of learning and religion by taking graduate seminary courses and working as a pastor in his church.

“I love learning and achieving new things, and I constantly strive to improve myself,” Williamson said. “I won’t work toward another master’s degree, though. I think I will get a Doctorate in Theology.”



The APG Crossword

Tennis, anyone?

According to the Tennis Industry Association, 17.9 million people in the U.S. play tennis. Complete this trivia puzzle to learn more about this sport.

By **RACHEL PONDER**, APG News

Across

3. In tennis, a _____ is a player under 18 who is still legally protected by a parent or guardian.
5. The International Tennis Hall of Fame, founded in 1954, is located in this Rhode Island city.
8. A shot that does not land cor-

rectly in the opponent’s court, resulting in the loss of a point.

9. The first patented version of tennis, lawn tennis, was called _____. It was created by Maj. Walter Clopton and patented in 1874. It is an ancient Greek term, meaning “skill in playing at ball.”

10. In 1988, she became the first and only tennis player, male or female, to achieve the Golden Slam by winning all four Grand Slam singles titles and the Olympic gold medal in the same calendar year.
12. Director of the 2004 movie, “Wimbledon.”
16. 2001 movie “The _____ Tenenbaums” features Richie Tenenbaum, a tennis pro who suffers from depression and has a breakdown on court in front of thousands of fans.
17. The term “tennis” originated from this Old French term, which can be translated as “hold,” “receive,” or “take.”
18. The _____ sisters became the first set of sisters to win Olympic gold medals in tennis.
19. The first African-American player selected to the U.S. Davis Cup team.
24. _____ & Co. makes the U.S. Open Trophy.
26. Tennis courts were originally _____ shaped.
27. Wimbledon is the only major tennis tournament still played on this surface.
28. In 1956, she became the first person of color to win a Grand Slam title. The following year she won both Wimbledon and the U.S. Nationals, a precursor of the U.S. Open.
29. The longest match in the history of tennis lasted _____ hours and five minutes.
30. A backwards rotation of the ball after a shot.
31. _____ tennis balls were used at Wimbledon for the first time in 1986.

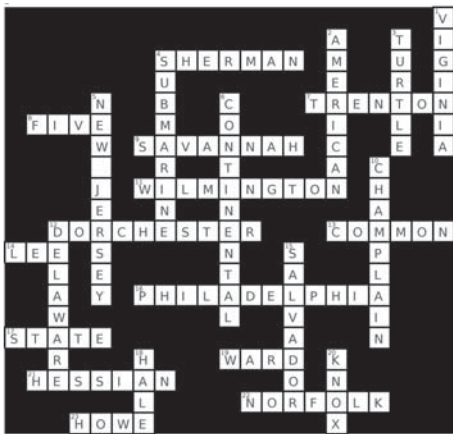
Down

1. Tennis _____ is an indoor tennis facility consisting of a domed structure which is supported by air pressure generated by blowers inside the structure.
2. She is the founder of the Women’s Tennis Association, Women’s Sports Foundation.
4. The first women to play in the Wimbledon wore full-length _____.
6. The Davis Cup, which started in 1900, is referred to as the “_____ Cup of Tennis.”
7. Withdrawal from a match due to an injury.

8. Tennis elbow, or lateral _____, is a painful condition of the elbow caused by overuse.
9. Position of the body prior to playing a shot.
11. Some historians believe that an early form of tennis can be dated to 11th or 12th century French _____ who used to play with the palm of their hand.
13. A forwards rotation of the ball after a shot.
14. Because tennis requires frequent, repetitive and rapid rotation of the lumbar spine, lower _____ pain is common for players of all levels.
15. This gold medal Olympic athlete is credited for helping to revive the popularity of tennis during the 1990s.
20. An official who observes a line and decides whether a ball has landed in play or not.
21. In tennis, “love” means having a score of _____.
22. In 1917, the U.S. National Championships, now known as the U.S. Open, was renamed the National _____ Tournament, in support of the war effort.
23. Muscle _____ is one of the most common tennis injuries.
25. Two-inch wide mark at the rear of the court.

Think you solved last week’s puzzle?
Check out the solution below

Solution to the June 30 puzzle



Cyber events help move capabilities forward

Continued from Page B1

munications-Tactical. “There’s a lot of capability that industry has, and it may not be specific to the Army, but we can tweak it and adapt it to what we really need it to be. So every cyber experiment we do puts us leaps and bounds ahead of where we would be if we had to develop these capabilities on our own.”

Set in field and laboratory environments, the three experiments share the goals of assessing prototypes, validating concepts and informing future requirements for capabilities that will allow commanders and Soldiers to understand, detect and counter cyber threats.

Where they differ is in the operational context, specific focus areas and maturity levels of the technologies under evaluation, as well as the immediate outcomes for industry and government participants. Together, they form a broad net that allows the Army to put cyber capabilities under the microscope and in the hands of Soldiers to influence integrated acquisition and technology approaches.

“Cyber Warfare is a revolution in military affairs,” said Col. Joseph Dupont, trail boss for the Army Cyber Acquisition Task Force. “With that, many are working hard to enable the Army to conduct operations in cyberspace. Cyber Blitz, Cyber Quest and Cyber Innovation Challenge are not competing events. They complement each other through a partnership to inform decisions and give program managers a venue to quickly assess the operational readiness of new capabilities.”

The events are as follows:

Cyber Blitz, which held its inaugural event in April at Fort Dix, New Jersey, is executed by the Army science and technology community, specifically the Communications-Electronics Research, Development and Engineering Center (CERDEC) Space and Terrestrial Communications Directorate. Combining CERDEC’s integrated modeling and simulation environment with its lab and field-based risk reduction processes, Cyber Blitz looked to address how the Army is adapting the physical construct of the

Cyber Warfare is a revolution in military affairs. With that, many are working hard to enable the Army to conduct operations in cyberspace. Cyber Blitz, Cyber Quest and Cyber Innovation Challenge...complement each other through a partnership to inform decisions and give program managers a venue to quickly assess the operational readiness of new capabilities.

Col. Joseph Dupont

Army Cyber Acquisition Task Force Trail Boss

main command post and interactions between different staff functions to execute cyber and electromagnetic activities. Future Cyber Blitz events, taking place twice a year, will expand to include pre-Technology Readiness Level (TRL) 6 materiel solutions focused on broad capability gaps affecting cyber and electromagnetic operations at the tactical level.

Cyber Quest, which will conduct its first annual event in July at Fort Gordon, Georgia, is executed by the Army’s training and doctrine community, specifically the Cyber Center of Excellence (CoE). Cyber Quest aims to provide a rigorous, integrated operational setting -- with a near-peer threat that reaches from the brigade to the squad level -- in order to evaluate technology solutions that have achieved TRL 6/7 status. Driven by the Army’s priority cyber requirements, Cyber Quest 2016 will focus on integrating situational understanding tools for cyber and electronic warfare, as well as demonstrating tactical radios as electronic warfare solutions at the tactical edge. Next year’s Cyber Quest 2017 will address other capability areas including forensics and malware detection, insider threat detection, defensive cyber operations mission planning and various tactical

electronic warfare sensors.

The Cyber Innovation Challenge, which launched in 2015 and will kick off its fourth iteration in July, is executed by the Army’s acquisition community, specifically the Cyber Focal office of the Assistant Secretary of the Army for Acquisition, Logistics and Technology, in partnership with the Army Cyber Command and the Cyber CoE. Through a vendor consortium and a flexible acquisition method known as Other Transaction Authority, the Cyber Innovation Challenge taps into small and non-traditional defense contractors to rapidly evaluate, procure and deliver limited quantity prototypes to cyber Soldiers. The Army has already conducted three formal Innovation Challenge events focused on Deployable Defensive Cyberspace Operations Infrastructure (DDI), cyberspace analytics and micro-cloud management solutions. The first DDI prototype kits, purchased from two vendors, were delivered in April to the Cyber Protection Brigade at Fort Gordon, Georgia. The Army’s goal is to hold three to four Innovation Challenges per year.

While the Cyber Innovation Challenge is the only one of the three events where the Army can quickly issue a contract

based on the results, there are benefits to industry partners who participate in any of the experiments, said Maj. Steve Roberts, who is managing Cyber Quest 2016. Given the complexity of the military cyber environment and the culture shift taking place, vendors who participate in Army-led prototyping events will receive early feedback and collaboration opportunities that stovepiped technology demonstrations miss, he said.

“Some of the most innovative solutions are coming from vendors who have not dealt with the Department of Defense in the past,” Roberts said. “So they’re militarizing their capabilities, and becoming better able to provide future capabilities based on this integration effort.”

Results and insights from each event are shared across the Army cyber community, influencing technology and requirements decisions as well as future experiments. Additionally, Soldiers and engineers who have participated in the events said the on-the-ground experience is already helping them, and the Army, move forward with the concepts and capabilities needed to be successful in the cyber domain.

“I’m an infantryman; I’ve been doing it for 18 years, but I’m having to learn a little bit of a different language as well to communicate these ideas across the cyber realm,” said Lt. Col. Brent Clemmer, 25th Infantry Division, 1st Battalion, 21st Infantry Regiment commander, who participated in Cyber Blitz. “I’ve walked away with this, maybe not with the depth of knowledge these experts have, but I can ask questions now of my S-6, I can ask questions now of my Electronic Warfare NCO, I can ask questions of the brigade staff and the division staff.

“The Soldiers here were able to point out flaws in the system, things that need to improve, and we were able to allow assessors to check out the process and go from there,” Clemmer said. “It was a win-win.”

Editor’s Note: Nancy Jones-Bonbrest (PEO C3T) and Kristen Kushiya (CERDEC) contributed to this article.

Cadets gain insight into test, validation process

Continued from Page B1

As a result, cadets later commissioned as officers will have received exposure to the RDT&E and acquisition professions; and as their careers progress, they will carry these experiences into acquisition, RDT&E, and private sector leadership roles.

ATEC is hosting 16 cadets across the command at the U.S. Army’s Aberdeen Test Center, or ATC, at Aberdeen Proving Ground, Maryland; Dugway Proving Ground in Dugway, Utah; Electronic Proving Ground in Fort Huachuca, Arizona; White Sands Missile Range in New Mexico; and Redstone Test Center at Redstone Arsenal, Alabama.

ATC hosted its first round of cadets, Cadet Kenneth Rau and Cadet Nicholas Roth, in a three-week rotation May 21 to June 11.

Both Roth and Rau are part of the 2018 graduating class. Roth, who serves in the Bravo Company 2nd Regiment, is majoring in mechanical engineering with an automotive systems sub-discipline; and Rau is serving in the G4 Company with a major in operations research.

Both cadets were challenged to apply their academic knowledge to projects geared towards their majors.

Roth’s assignment was twofold. His main AIAD project focused on implementation of instrumentation for an upcoming engineering test of the M88 recovery vehicle, an armored recovery vehicle used for towing disabled vehicles, and repairing and replacing damaged components on heavy combat vehicles, such as the M1 Abrams Main Battle Tank.

“The Abrams is increasing in weight, and ATC has to test the M88 recovery vehicle to ensure that it can still perform recovery functions on the M1 due to the increased load,” Roth said. “I worked on a computer program that allowed me to model modifications required to install instrumentation on the M88 drivetrain.”

After the model was completed, Roth ran a simulation in the computer program to determine if the modified hardware on the M88 could safely perform recovery functions on the M1. The results of the simulation demonstrated changes made to the drivetrain would not cause the M88 to fail.

Roth’s secondary project required him to witness a live fire test of a Stryker combat vehicle placed over a land mine that exploded underneath one of the wheels. Using a matrix laboratory,

known as MATLAB, a high-performance language for technical computing, he processed the test data that measured vehicle parameters during and after the shot for analysis by the customer.

Rau’s project focused on gage repeatability and reproducibility, or gage R&R, a measurement systems analysis technique that indicates measurements of the same part (repeatability) and which part is contributing the most to the variation of the measurements (reproducibility).

For variability caused by the measurement system itself, gage R&R further allows the quantification of differences caused by random effects (repeatability) separately from differences caused by intentionally varied effects like operators or occasions (reproducibility).

For his project, Rau used gage R&R to measure the physical characterizations of hard armor torso plates with a blue light scan box -- a type of digital technology that uses computer image rendering to scan the body armor plates and produce accurate measurements.

According to Rau, the scan box test was designed to be simplistic for all operators, which helps make operator error almost non-existent.

“It’s pretty simple,” said Rau. “You

mount the armor plates on a four-pronged platform that goes through the scan box. Type in the necessary parameters, push a button, and the machine scans the plates to provide the measurements.”

Four runs of 14 armor plates were conducted using three operators. The results showed operator-to-operator error was almost unseen, Rau explained. The findings of the gage R&R study revealed that scan box technology is significantly better than technology used three years ago.

Roth and Rau noted how their experiences enabled them to gain a clearer understanding and appreciation of the testing processes at ATC and the importance of validating systems prior to fielding them to troops in the real world. Both expressed the value of the connections they established with journeyman level engineers in all fields of testing. They both agreed the experience and knowledge gained from working hand in hand with experts and professionals will be invaluable to them in the future as commissioned officers.

To learn more about CSRP, contact the ATEC Headquarters West Point coordinator, Christina Bryant, at 443-861-9901, or via email at Christina.l.bryant3.civ@mail.mil.



DID YOU KNOW ?

An act of Congress annexed the Republic of Hawaii and created the U.S. Territory of Hawaii 118 years ago on July 7, 1898.

President William McKinley had signed the treaty of annexation for Hawaii, but it failed in the Senate, after which Hawaii was annexed by means of joint resolution, called the Newlands Resolution.

The Newlands Resolution was named for Congressman Francis G. Newlands of Nevada. A supporter of westward expansion, Newlands created the resolution, which annexed the Republic of Hawaii, creating a new territory. This allowed duty-free trade between Hawaii and the mainland and made the existing U.S. military presence on the island permanent. The bombing of the U.S.S. Maine in Cuba in February, 1898, triggered the Spanish-American War, which caused world events to force the annexation issue.

The Resolution was approved July 4, 1898 and signed by McKinley July 7. In August, a ceremony was held on the steps of Iolani Palace to signify the official transfer of Hawaiian sovereignty to the United States. Hawaii did not become a state until Aug. 21, 1959.

By **YVONNE JOHNSON**, APG News
Source(s): www.wikipedia.org



Courtesy photo

The Hawaiian flag in front of Iolani Palace is lowered on Aug. 12, 1898, signifying the official transfer of Hawaiian sovereignty to the United States.

Submit letters to the editor to usarmy.apg.imcom.mbx.apg-pao@mail.mil