APG NEWS

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

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newsbrief

SAVE THE DATE!
APG OKTOBERFEST SET FOR SEPT. 16-17

Team APG will host its annual Oktoberfest celebration at the APG North (Aberdeen) recreation center and the surrounding grounds Friday, Sept. 16, 4 to 7 p.m. and Saturday, Sept. 17, 11 a.m. to 7 p.m.

Hosted by APG MWR, the free, family-friendly event will include a traditional Festhalle with live entertainment, a Volksmarch, Bingo, car show, and family fun area.

German food and beverages will be available for purchase.

Registration for the Volksmarch 5K walk/run, Sept. 17 at 11 a.m., can be completed in advance online, or the morning of the race. Registration for the the Car Show, also Sept. 17, must be completed in advance.

For more information, visit www.apgmwr.com/2016-oktoberfest.

APG Oktoberfest is open to the public, but all visitors must have a valid state or federal government-issued ID and are subject to security screenings prior to being given access to the installation.

online

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twitter.com/USAGAPG
flickr.com/photos/usagapg/

ICE system
http://ice.disa.mil/
Facebook, http://on.fb.me/HzQIow

Facilitator Dion Butler, with the U.S. Army Research Laboratory, discusses bystander intervention with attendees John Cole, of ARL, center, and Natalie Cagle, with the U.S. Army Research, Development and Engineering Command, left, during the second Sexual Harassment/Assault Response & Prevention, or SHARP, Expo at the ARL Conference Center Aug. 11.

RDECOM hosts SHARP Expo

Story and photos by **RACHEL PONDER**
APG News

To educate the APG community and to raise awareness about sexual assault and harassment, the U.S. Army Research, Development and Engineering Command, or RDECOM, hosted the second annual SHARP (Sexual Harassment/Assault Response & Prevention) Expo on APG North (Aberdeen), Aug. 11.

More than 380 Team APG Soldiers and civilians attended the expo at the U.S. Army Research Laboratory Conference Center, which featured informative, hands-on activities.

The event opened with welcoming remarks from RDECOM Chief of Staff Col. Ray Compton who asked attendees to share what they learned at the expo with others.

"You need to be here and look at these classes as a way to educate yourself, a way to extend the message out to the workforce, a way to be committed to the cause," he said.

According to Compton, part of eradicating sexual abuse and harassment is intervening when necessary. Sexual assault and harassment "must not be tolerated," he said.

"At the end of the day we need to make sure we are taking care of each other."

A sexual abuse survivor shared her story with the audience. She said she was able

See SHARP, page A7

Army retention rules change Oct. 1

By **ROBERT TIMMONS**
Fort Jackson

Changes to Army programs that are meant to retain quality noncommissioned officers, or NCOs, will take effect when the new fiscal year begins on Oct. 1.

Back in May, Secretary of the Army Eric Fanning signed the Army Directive 2016-19 (Retaining a Quality Noncommissioned Officer Corps), instituting new policies that are meant to ensure the Army retains its best Soldiers while offering NCOs with the most potential an avenue for continued service.

The directive changes the Bar to the Continued Service Program, the NCO Career Status Program, and Retention Control Point System. The changes will be felt across the enlisted spectrum, particularly among mid-career to senior-level NCOs.

Under the Bar to Continued Service program, formerly known as the Bar to Reenlistment Program, all

See RETENTION, page A7

Photo by Staff Sgt. Ken A Scar, 108th Training Command

Army Sgt. Ryan Skelton, left, of Denver, Colorado, and Staff Sgt. Elvis Servellon, of Omaha, Nebraska – both with the Fort Jackson Salute Battery – fire an M116 Howitzer during a July 16 retirement ceremony at Fort Jackson, South Carolina. Changes to three NCO programs will affect these and other Soldiers' careers.

APG supports Operation Purple

Soldiers from the Alpha Battery, 3rd Air Defense Artillery lead military children through PT drills during the Operation Purple summer camp at Elk Neck State Park, Aug. 16. Soldiers and civilians from units across APG took pause from the mission to support Military Day during the week-long camp sponsored by the National Military Family Association.

From a visit via watercraft from Garrison Commander Col. James E. Davis and Command Sgt. Maj. Toese Tia, to obstacle courses, cadence writing, camouflage painting and MRE tasting, followed by a helicopter landing from the Maryland National Guard and Adjutant General Maj. Gen. Linda Singh, *read the full story in the Aug. 25 issue of the APG News.*

Photo by LAmburr Reese, APG News

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STREET TALK

August 19 is National Aviation Day. Do you remember your first flight?

Mayann Scott
Retiree

"My first flight was from Pittsburgh, Pennsylvania to Fort Jackson, South Carolina for [Army] Basic Training when I was 18. I had a big family, so growing up we always traveled by bus. I was nervous but excited to ride in a plane and fly above the clouds.

Frank Wagner Sr.
Retiree

"When I was serving with the Maryland Air National Guard, my first flight was from Harbor Field in Dundalk [Maryland] to Savannah, Georgia. It was quite a thrill.

Emma Walden
11

"I do not remember my first flight. I was 3 years old and it was [from the U.S] to Belgium. The first flight I remember taking was when I was 5. I flew from Belgium to Washington [state] to visit my great-grandmother. The flight made me feel a little sick but I was happy to see my great-grandmother.

Jovan Koger
Veterinary Treatment Facility

"I was in the 10th grade, and I flew from Delaware to California to visit my aunt. I was excited to see her.

Aubrey Jones
CHRA

"I was 15. I flew from Guyana [South America] to New York on Nov. 25, 1976. I can't forget that day. It was very different, going from warm weather to cold weather.

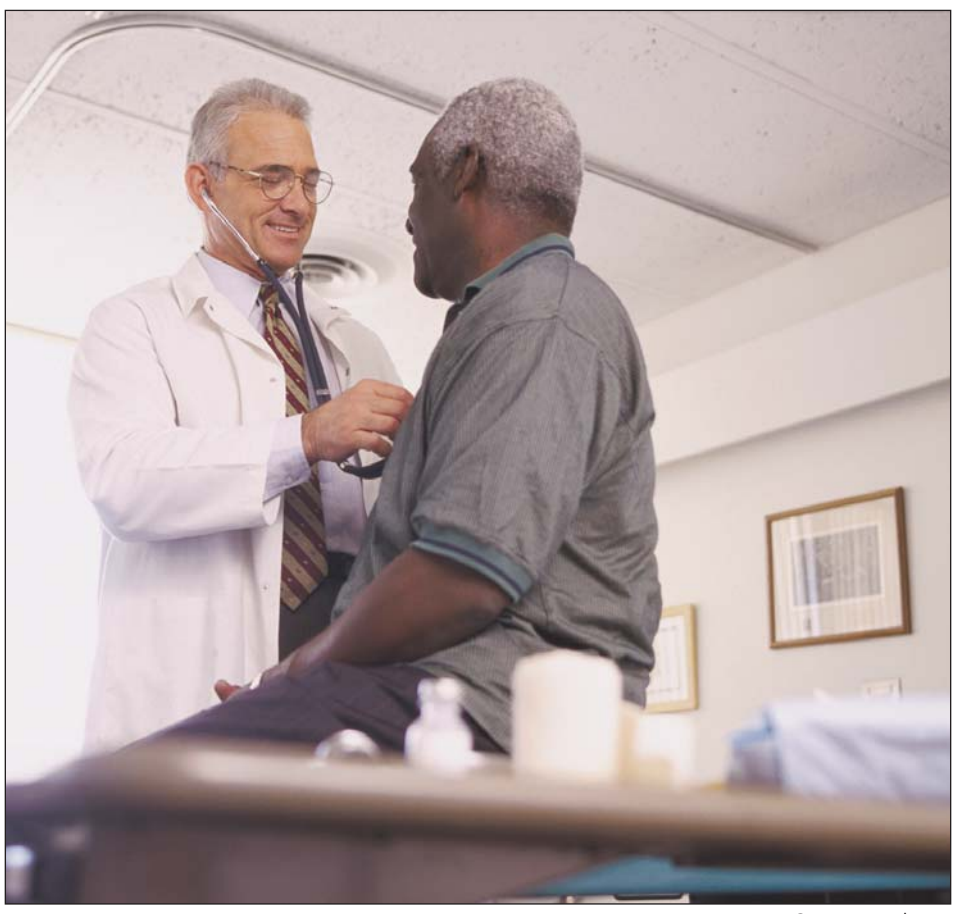
Receiving care after a work-related injury

Civilian Personnel Advisory Center

Are you an employee currently receiving medical care for a claim filed through the Federal Employee's Compensation Act?

Here are some tidbits to assist in the event of an on the job injury and the recovery from that injury:

- Employees have the right to select a physician if the physician is located within 25 miles of the place of employment or residence, is the appropriate type doctor for the type injury and the doctor is not on the list of excluded medical providers.
- If the employee wants to change doctors after their initial selection, written justification must be provided and prior approval obtained from the Office of Worker's Compensation Program.
- Chiropractic care is normally not approved under a FECA claim. An orthopedic doctor is recommended for treatment. There are some exceptions to this guidance. Please consult with the OWCP claim examiner.
- The name of the assigned claims examiner, mailing address and telephone number for calling in and mailing items is located on the OWCP letterhead.
- OWCP requires authorization of all medical procedures prior to having the procedure done. Without the authorization, OWCP may not pay the bills or off duty time during that procedure. Authorization is needed before extensive tests, planned hospitalization, or surgery. If the treatment was received on an "emergency" basis, all authorizations can be obtained retroactively from OWCP.
- If an employee receives "special pay" as a police officer, firefighter or paramedic, OWCP will required the employee to provide them with one year's worth of pay for any compensation pay requested. Please consult with the FECA office.



Courtesy photo

Employees have the right to select a physician if the physician is located within 25 miles of the place of employment or residence, is the appropriate type doctor for the type injury and the doctor is not on the list of excluded medical providers.

- The employee is responsible to ensure the doctor's billing department has been provided with the billing information necessary to obtain payment for their services. Details are provided in the Employee's Handout once a claim is filed. The mailing address is:

  US Department of Labor, OWCP
  P.O. Box 8300, Central Mailroom
  London, Kentucky 40742

- Mileage and out of pocket expenses are reimbursable to an employee once the claim is accepted. Forms CA-915 and CA-957 (both found online) should be completed and mailed to OWCP, with receipts for medical co-pays, prescription expenses and any tolls/costs over $25. Remember, claim numbers must appear on everything sent to OWCP.

For more information, contact the APG CPAC at 410-306-1091.

Police & Fire BLOTTER

The following statistics were provided by the APG Directorate of Emergency Services, recapping the fire, medic and police responses, issued citations and arrests made during the month of July.

**Mutual Aid often involves incidents off post in the local community.*

Calls for Service

FIRE: 275
- Fire Alarms – 61
- Mutual Aid* – 22
- Watercraft Emergencies – 0
- Fire Drills – 22

MEDIC: 34
- Mutual Aid* – 0
- Chest Pains – 3
- Breathing Problems – 1

POLICE: 550
- Alarm Activation – 302
- 911 Hang-ups – 30
- Traffic Accidents – 13
- Active Warrants – 8

Citations

TOTAL: 394
- Warning Citations – 212
- Non-Warning Citations – 182

Incidents/Arrests

TOTAL: 10
- Traffic Related – 0
- Warrant Arrests – 5
- Domestic Related – 1
- DUI/Alcohol Related – 2
- Drug Related – 0

See Something

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

Provided by the INTEL DIV/DPTMS

Say Something

INSTALLATION WATCH CARD

DO OBSERVE & REPORT

- Suspicious activity or suspected surveillance.
- Unusual questions or requests for information relating to capabilities, limitations, or operational information.
- Unusual vehicles operating in or around APG.
- Unusual phone calls, messages, or e-mails.
- Unusual contacts on or off post.
- Unusual aerial activity near or around installation.
- Any possible compromise of sensitive information.

INSTALLATION WATCH CARD

DON'T

- Discuss any aspect of military operations or planning.
- Discuss military capabilities or limitations.
- Discuss FP measures, capabilities, or posture.
- Disclose information about R&D and testing.

Report suspicious activity immediately to APG Police!

APG (North & South): 410.306.2222
Off Post in Maryland call 1-800-492-TIPS or 911

Card created by APG Intel

APG NEWS

The APG News, a civilian enterprise newspaper, is an authorized publication for members of the U.S. Army. Contents of the APG News are not necessarily official views of, or endorsed by, the U.S. government, Department of Defense, Department of the Army or the U.S. Army Garrison, Aberdeen Proving Ground. The newspaper is published weekly by the APG Public Affairs Office, ATTN: IMAP-PA, Building 305, APG, MD 21005-5001. Printed circulation is 5,200.

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

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New part-day preschool program starts

Story and photos by **RACHEL PONDER**
APG News

Starting Sept. 6, families will have the option of enrolling their children into part-day preschool at the APG North (Aberdeen) child development center.

The program, for children ages 3 to 5, will operate 9 a.m. to noon, Monday through Friday, and run in conjunction with the Harford County Public Schools, or HCPS, calendar.

Facility Director Heidi Fernandez said the program is being offered to the community based on feedback received from parents who expressed interest.

"This program will help the children get used to going to a new environment, and learn how to play with other children their age," she said.

According to Fernandez, the part-day preschool program will familiarize children with basic concepts like numbers, days of the week, and letters, through planned projects. Each month will have a theme, such as, "Getting to Know You" in September, and "Fall Harvest" in October. Daily projects will be based on the monthly theme.

The program includes art, outdoor recess, group time, and "center time," or activity-based learning.

Fernandez said the part-day preschool program is "less rigid" than the Strong Beginnings pre-kindergarten program.

"We will have more small groups doing hands-on activities," she said. "Lessons will be implemented based on the children's needs."

Beth Command, supervisory program specialist, said all CDC staff members receive training in the "Creative Curriculum," which is used Army-wide.

"We have a super, highly-qualified staff in general," she said. "They all go through 210 hours of training, within the first 18 months of hire, which is equivalent to 24 college credits."

According to Command, weekly progress reports are sent to parents online, and parent-teacher conferences are held quarterly. The center has an open-door policy which means parents are welcome to visit and volunteer in the classroom.

"We try to keep the parent-teacher communication loop open," Command said. "We try to do that as many ways as possible."

The APG North CDC part-day preschool program will be limited to 30 children, but excess demand could result in an afternoon part-day preschool program, Fernandez said.

The program is open to all Family and Morale, Welfare and Recreation-eligible patrons. Children must be 3 years of age by Sept. 1, 2016 to qualify for enrollment. The part-day preschool program will be closed on all HCPS days out, including teacher work days, winter break, spring break and inclement weather closure days.

For more information contact APG School Liaison Stacie Umbarger at 410-278-2857 or stacie.e.umbarger.naf@mail.mil, or apply for the program online at **www.militarychildcare.com**.

(From top) Karen McCoy, lead program assistant, right, reads to Tori Dolzine, 3, at the APG North (Aberdeen) child development center; Three-year-olds Jacob Cropps, left, and Lucas Burdette, right, learn social skills while playing with LEGO bricks at the APG North child development center.

Leave Donations

To participate in the Voluntary Leave Program, use forms OPM 630, Application to Become a Leave Recipient Under the Voluntary Leave Transfer Program; OPF 630-A, Request to Donate Annual Leave to Leave Recipient Under the Voluntary Leave Transfer Program (within agency); or OPM 630- B, Request to Donate Annual Leave to Leave Recipient Under the Voluntary Leave Transfer Program (outside agency). Please contact Sue Campbell at 410-306-0266 or sue.a.campbell8.civ@mail.mil

Employees eligible for donations in the Voluntary Leave Transfer Program

Acevedo, Rachel
Acosta, Jeannie M.
Bensch, David H.
Blanton, John B.
Branscome, Teresa A.
Ciborowski, Steven
Clapham, Ann M.
Clark, Lyra
Clemons, Bobby R.
Crowder, Phillip N.
Dennis, Robin N.
Dissek, Michael J.
Diveley, Roberta R.
Donlon, Jacqueline A.
Ellis, Gibson, Tanya J (T'Jae)
Friedman, Marian J.
Gaddis, Lonnie
Gilley,Christopher M.
Glassman, Connie L.
Hairston, Olga M.
Hamrick, Eunice G.
Humphries, Theresa
Johnson, Douglas W.
Khan, Abid R.
King, Sharon M.
Kuciej, Andrea D.
Kyro, Kelly J.
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Meskill, Joseph F.
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Redman, Corinne L.
Rodriguez, Pedro
Ruff, Albert L.
Shoaf, Meaghan L.
Smothers, Sharon L.
Snodgrass, Deananne
Solomon, Je'Neane
Soto, Robert Alan
Thompson, Curtis
Tisdale, Dorris A.
Trulson, David K.
Vaccaro, Dominic S.
Villanueva, Jenny
Waters, Patricia M.
Westgate, Amy E.
Witt, Rebecca S.

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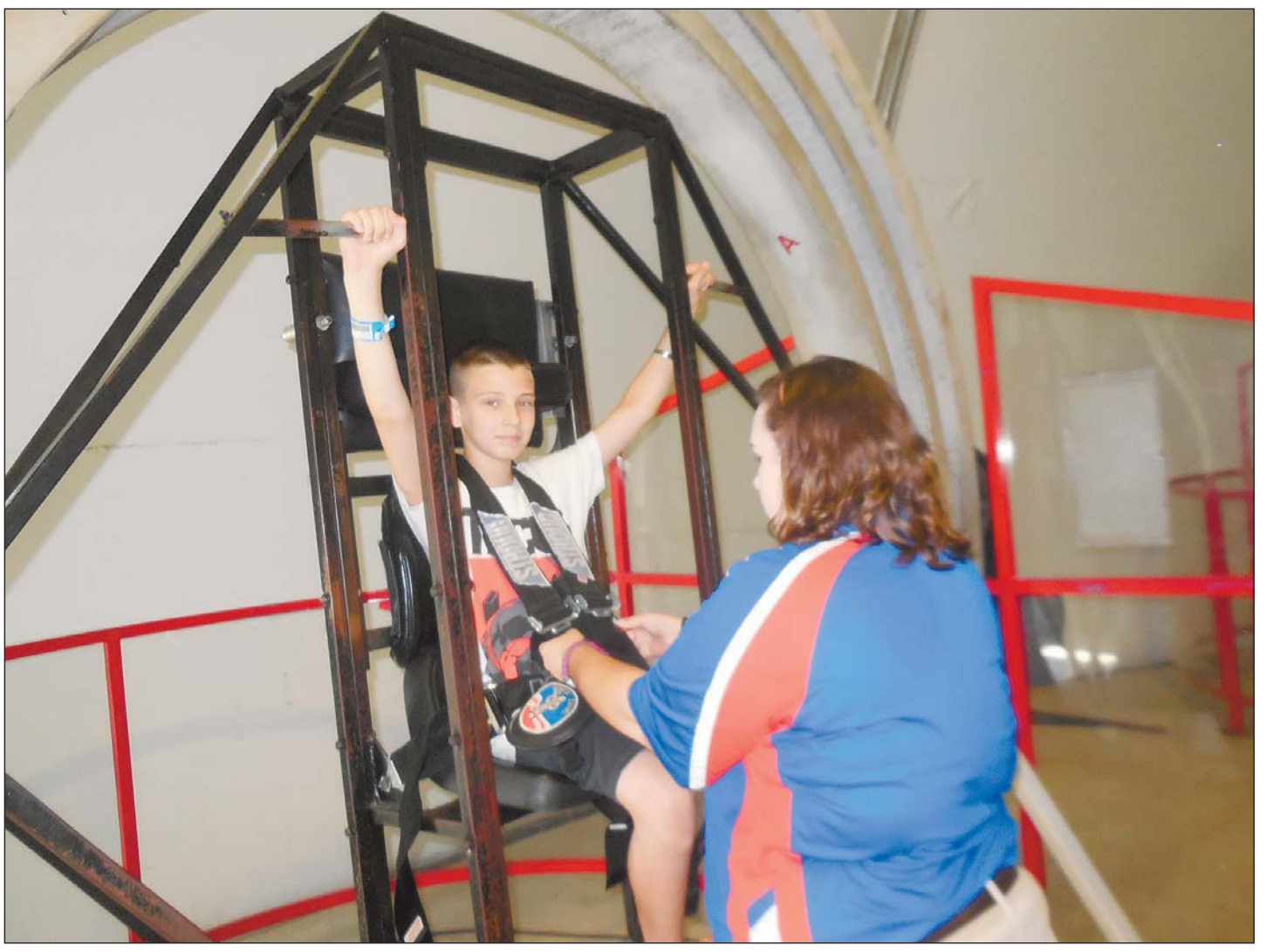
APG youth attends Alabama Space Camp

By **LAUREN FINNEGAN**
APG News



One day last spring, Meric Clawiter was sitting in class at Aberdeen Middle School, when he was unexpectedly called to the office of Assistant Principal Lisa Standish. Clawiter initially thought bad news was coming but instead he learned he'd been chosen as one of two students to receive a scholarship from Northrop Grumman to attend a Space Camp at the U.S. Space and Rocket Center in Huntsville, Alabama, July 24-29.

According to Standish, who received an educator scholarship to the camp, Clawiter's selection was due to "his true love of science."

"When I spoke to the Aberdeen Middle 6th grade science teachers regarding students who would be best suited for this opportunity, Meric's name was one of the first mentioned," she said. "His love for science is unparalleled-that is apparent from the first conversation you have with him."

Clawiter is the son of Sgt. 1st Class Matthew Clawiter, of the U.S. Army Communications-Electronics Research, Development and Engineering Center.

To prepare himself for the camp, Clawiter watched videos to see what other youth had experienced.

"I'm doing something that not many people get to do," he said. "I was super happy about it."

When the time came to board the plane to Alabama, Clawiter was ready to go.

Over the course of five days, he got to experience multiple simulations, including the Multi-Axis Trainer which simulates a tumble spin while reentering the earth's atmosphere.

"It's a chair that spins you up and down and around everywhere," he said. "As long as you kept your eyes open, you were okay."

In addition to the simulations, Clawiter conducted missions with his Space Camp Team Miranda, named after one of Uranus' moons. Team Miranda was tasked with launching and landing a lunar shuttle, with Clawiter in the position of Lunar Mission Specialist. With only an hour of training before the mission, he said his team did well and received a high score from their crew chief, despite the one mistake of accidently crawling from their space pod out into "space."

"[My] favorite mission was when I was ISS (International Space Station) Commander, where I was in charge of all the experiments, and reporting how all the experiments went," he said.

These experiments included making Polyurethane foam, to see how an exothermic reaction (a chemical reaction that produces heat) works, and making a type of slime that wound up leaking within his carry on during the plane ride home.

Clawiter officially graduated from Space Camp at the end of the week. Former astronaut Don Thomas, who attended the ceremony, turned each student's wings right side up on their uniforms, symbolizing that they had successfully completed the camp.

When asked what he was going to miss the most about his time at space camp, Clawiter's answer was simple, "my friends."

As for the future, Clawiter said he's always had his sights set on a career in science, specifically in marine biology. After experiencing the camp, however, becoming an astronaut is also one of his dreams, he said.

"I could probably do with being an astronaut because it's pretty cool to go into space."

(From top) Meric Clawiter, son of Sgt. 1st Class Matthew Clawiter gets buckled into the Multi-Axis Trainer which simulates a tumble spin on reentry in the earth's atmosphere in a space pod at the U.S. Space and Rocket Center in Huntsville, Alabama; Clawiter, one of two Aberdeen Middle School students to receive a scholarship to the camp from Northrop Grumman, suits up for his week long journey through Space Camp, July 24-29.

Always seek shelter indoors during lightning storm

National Fire Protection Association

Thunder and lightning storms happen all the time. Did you know lightning can strike as far as 10 miles from any rain? Know what to do to keep you and your family safe when storms strike.

Outdoor Safety

- If you can hear thunder, you are within striking distance of lightning. Look for shelter inside a home, large building or hard-topped vehicle right away.
- Do not go under trees for shelter. There is no place outside that is safe during a thunderstorm.
- Wait at least 30 minutes after hearing the last clap of thunder before leaving your shelter.
- Stay away from windows and doors. Stay off porches.
- There is no safe place outside. Places with only a roof on a sports field, golf courses and picnic areas are not safe during a lightning storm. Small sheds should not be used for shelter.
- If a person is struck by lightning, call 911. Get medical help right away.

Indoor Safety

- Unplug appliances and other electrical items like computers, and turn off air conditioners. If you are unable to unplug electrical items, turn them off.
- Stay off corded phones, computers and other things that put you in direct contact with electricity or plumbing. You can use a cellphone or cordless phone/computer.
- Avoid washing your hands, bathing, doing laundry or washing dishes.

Courtesy photo

Word of the week

Calumniate

Pronounced: kuh-LUHM-nee-eyt

Part of Speech: Verb (used with object), calumniated, calumniating.

Definition:

1. To make false and malicious statements about; slander

Use:

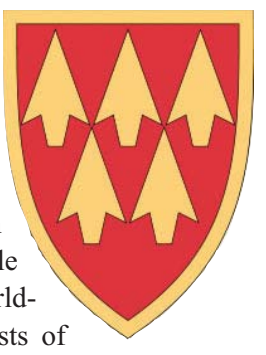
- The celebrity magazines have a reputation for singling out individuals to calumniate.
- Some find it great entertainment to align themselves with groups that calumniate each other.
- I agree that he has been calumniated in some ways.

By **YVONNE JOHNSON,** *APG News*
Source(s): http://www.oxforddictionaries.com; http://dictionary.reference.com

Acronym of the week

AAMDC

Army Air & Missile Defense Command



Headquartered at Fort Bliss, Texas, the 32nd Army Air and Missile Defense Command, known as AAMDC, is a theater level Army air and missile defense multi-component organization with a worldwide, 72-hour deployment mission. AAMDC consists of four brigades, 11th ADA, 31st ADA, 69th ADA and 108th ADA.

On order, 32d AAMDC rapidly deploys forces to conduct joint and combined/coalition air and missile defense operations for the regional combatant commander.

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

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All Things Maryland

National Harbor Maryland

The perfect combination of history and entertainment

By **LAUREN FINNEGAN**
APG News

Everyone knows about Baltimore's historic Inner Harbor but many people seem unaware of the National Harbor located just outside of the District of Columbia in Maryland's Prince George's County.

The National Harbor is a 350 acre development of attractions along the Potomac River. From family-friendly events to nightlife, the National Harbor has it all.

One of the first things that visitors will notice when arriving at the National Harbor is the giant Ferris wheel that sits on the water's edge. Known as the Capital Wheel, it stands 180 feet above the Potomac River waterfront, which makes for some astounding views. At $15 per ride, guests can grab a seat in one of 42 climate-controlled gondolas that seat up to eight, and relax while viewing treasured landmarks like the White House, the U.S. Capitol, the National Mall, Arlington National Cemetery, and the Washington Monument.

Near the Capital Wheel, the giant hand that looks as if it might grab a passerby is not an illusion. It really is a giant hand – albeit an aluminum one. The hand is part of a famous statue called "The Awakening." Designed by J. Seward Johnson, the statue is more than 70 feet across, and made out of five cast iron aluminum pieces. The statue is not just something that's interesting to look at; children and adults are encouraged to play and climb on the limbs of this rising giant. It was located on Hains Point near the National Mall in Washington, D.C. for 27 years before being moved to the National Harbor.

A 36-foot Americana themed carousel featuring everything from classic horses to a hummingbird that looks like it might take flight is located on the water. Rides are priced at $3 per ride or $5 for an all-day pass. The carousel is in a prime spot for families, as it is surrounded by a playground, a separate toddler play area, and a picnic area, making for the perfect place to sit and enjoy lunch.

For the older kids, who aren't content just looking at the water from the pier, there are kayaks, canoes, standup paddleboards and pedal boats available to rent by the hour from May through October. After working up an appetite, visitors can grab a bite to eat at one of the many restaurants that line the harbor.

To complete the ultimate Maryland experience, there are more than 30 restaurants to choose from, from breweries to piano bars, featuring a variety of fare including Maryland crabs, Mexican dishes and much more. Shopaholics will want to visit the 180 diverse shops in the outlet mall that lines the harbor. While Mom may want to stop for clothes, the kids will enjoy the Peep Store; one of only three in the world. With a bright yellow VW Bug with a giant peep chick perched on top, parked out front, it's easy to find.

Year-round events at the National Harbor include, "Free movies, concerts, and workouts on the water front… Perfect for date night or family fun," according to Bruce Gudenberg, executive director of Visit National Harbor marketing. Ongoing and upcoming events include the UniverSoul Circus, which runs through July 31; and the Salute the Sunset concert series featuring the U.S. Air Force Airmen of Note, set for July 30; and the U.S. 257th Army Band and U.S. Air Force Singing Sergeants on Aug. 6.

After visitors have seen and done it all, they can hop a ride on a Water Taxi named Miss Sophie, which will transport them to Old Town Alexandria, a popular destination to take in the sights of the city that George Washington called home. A great ending to a fun filled day.

The National Harbor has something to entertain, intrigue, or delight people of all ages. It's located at 165 Waterfront Street, National Harbor, MD, 20745. For more information, call 877-638-5427 or to view the calendar of events, visit **https://www.nationalharbor.com**.

Courtesy photos

(Clockwise from top) The Capital Wheel and the shops at the National Harbor illuminate the night sky; A couple paddles out into the Potomac River after renting a paddleboard and kayak from the National Harbor; A father and son play on David Stromeyer's Tool De Force, one of the many pieces of art that can be found at the National Harbor.

Ignore old wives' tales when managing food allergies

By **ANGELA LANG**
Kirk U.S. Army Health Clinic

Like every other Tuesday evening, I prepared dinner for my family after work and we sat down together to eat.

As a dietitian, home prepared, family meals are very important to me. On this particular evening, I was trying a new recipe that included pesto which I opted to buy pre-made to save myself a little time. I have made homemade pesto before and was familiar with the ingredients so I didn't bother to read the food label. This was my big mistake.

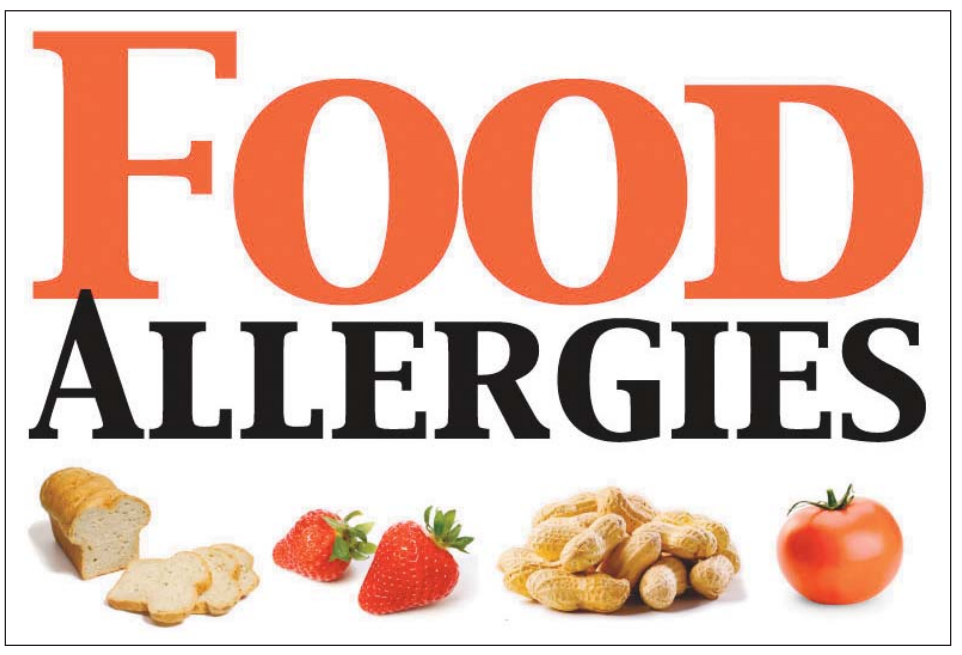
You see, my son has food allergies. He is monitored by an excellent allergist whom he had seen the week prior for a food challenge so we were quite certain that he was 'only' allergic to peanuts, cashews and pistachios. Having only ever used pine nuts in my pesto recipe, which he is not allergic to, I offered him a miniscule taste of the pesto on a sandwich in an attempt to expand his very picky palate.

Within a minute of taking a bite, my son complained of itching in his throat; less than one minute later his bottom lip swelled and one minute after that he had hives popping up around his mouth and moving up his cheeks.

I quickly scanned the pesto jar and saw that cashews were among the ingredients. I grabbed the red medical bag I keep in our kitchen and found the EpiPen and anti-histamine wondering if I was going to need to use that EpiPen for the first time. I gave him the anti-histamine and waited for what seemed like an hour but was probably 10 minutes.

The hives began to disappear but within about 20 minutes were replaced with severe stomach pains that had him moaning and crying. About three hours after the ingestion he got very dizzy and then forcefully projectile vomited. Fortunately, expelling the allergen made him feel better almost instantly.

While he has had small reactions since he was a baby, this was the most serious and left both of us stunned. Food allergies are serious and the effects can be frightening.



The nonprofit organization, Food Allergy Research and Education reports that, "Researchers estimate that up to 15 million Americans have food allergies," potentially effecting 1 in every 13 children under the age of 18.

What is an allergy?

An allergic reaction occurs when your immune system mistakenly identifies an item such a food, pollen, dust or fur as something harmful. The immune system signals antibodies to be released from the cells which in turn signal your immune system to release chemicals to help control the perceived foreign substance. These chemicals cause a variety of allergy side effects from a drippy nose and itchy eyes to anaphylactic shock.

Causes of food allergies

To date, there is no clear cause of food allergies. There are many hypotheses as to why children in 2016 are more likely to have food allergies than in prior decades such as environmental factors, agricultural changes over the years, and genetics.

Foods most often associated with allergies

According to Food Allergy Research and Education, 90 percent of all reactions are caused by milk, eggs, peanuts, tree nuts, soy wheat, fish and shellfish. Even trace amounts of these foods can cause a severe reaction to a person with a food allergy.

Food allergies and intolerance

Food allergies and food intolerances are the same. As noted, a food allergy is an immune response causing the body to mount a defense against a harmless item that it recognizes as foreign. As a result, food allergies can be fatal.

The Cleveland Clinic defines a food intolerance as, "a digestive system response rather than an immune response. It occurs when something in food irritates a person's digestive system or when a person is unable to properly digest the food."

One of the more common food intolerances is lactose intolerance which is different from a dairy allergy.

Food allergy prevention

Unfortunately, since there is no clear cause of food allergies and no definitive way to prevent them. Good nutrition begins before birth and women of childbearing age or who are already pregnant, should take care to eat a balanced diet and take all vitamin supplements as prescribed. After birth, breastfeeding is widely regarded as the best way to nourish newborns. Follow the guidance of your pediatrician about when to start solid foods and refrain from listening to old wives tales.

Confronting allergic reactions

If you believe that you or your child may have had a reaction to a food it is important to discuss this with your primary care manager. Sometimes the first reaction is minor and the second is severe so it is important to get it checked out. Your medical provider will be able to determine if it is a true allergy or intolerance.

Severe food allergies can be life-threatening

According to the Food and Drug Administration website at **http://www.fda.gov**, after ingesting a food allergen, a person with food allergies can experience a severe, life-threatening allergic reaction called anaphylaxis.

This can lead to:

- Constricted airways in the lungs
- Severe lowering of blood pressure and anaphylactic shock
- Suffocation by swelling of the throat

Each year in the U.S., it is estimated that anaphylaxis to food results in:

- 30,000 emergency room visits
- 2,000 hospitalizations
- 150 deaths

Prompt administration of epinephrine by an auto-injector such as an EpiPen, during early symptoms of anaphylaxis may help prevent serious consequences.

For more information, visit the Food Allergy Research & Education website at **www.foodallergy.org**; or the American College of Allergy, Asthma & Immunology website at **http://acaai.org/allergies/types/food-allergies**.

To schedule a dietician appointment at Kirk U.S. Army Health Clinic, call 410-278-5475.

Editor's Note: Angela Lang is a registered dietician at Kirk U.S. Army Health Clinic on APG North (Aberdeen).

Olympic Soldiers 'full of American pride'

Story and photo by **TIM HIPPS**
IMCOM

Whether marching into Maracanã Stadium as part of Team USA or watching on television, U.S. Army Olympians felt great pride during the opening ceremony of the Rio Olympic Games.

For race walker Staff Sgt. John Nunn, the charm of walking in his third Olympic opening ceremony was being able to simultaneously communicate with his 12-year-old daughter in Texas.

"The best part of my evening was face-timing with Ella as I was walking into the stadium," Nunn said. "It doesn't matter where I am or what amazing things are going on, getting to Facetime with Ella will always be the highlight of my day."

Nunn said he also enjoyed watching the reactions of first-time Olympians during the event.

"My heart was full of American pride as I walked in with my fellow countrymen," Nunn said. "It is such an honor to represent this amazing country that I live in and love. I am grateful for the Army. It is an amazing organization that always pushes me to be better than I am."

Some of his Army-Olympian teammates, like rugby coach Capt. Andrew Locke, were unable to join the parade of nations during the opening ceremony.

"The men's team was able to walk because they don't start competition for another three days, but for us we had to just rest and prepare," Locke said.

"But we watched it and it was breathtaking," Locke said. "Everybody got dressed up and we went downstairs, and we hung out with all the Team USA Olympians and cheered them off before they headed to the stadium."

Locke, who arrived in Rio July 31, said his experience so far has been a good one.

"The food, living conditions, laundry, transportation, logistics – everything has gotten a little bit better every single day since we've been here," he said.

"The people, themselves, have been outstanding in terms of the hospitality and the warm reception that we've received. I can only imagine the work that goes on behind the scenes just to run this event."

Maj. Dan Browne, distance running coach with the U.S. Army World Class Athlete Program, watched the ceremony on television with Army-Olympians Spcs. Paul Chelimo, Shadrack Kipchirchir and Leonard Korir.

They were still in Mammoth Lakes, California, where they will train at 8,500 feet above sea level until the last minute before their races.

"When the opening introduction on NBC came on the television, it became very real to me that my Soldiers were going to get a chance to shine in Rio," Browne said.

"I am proud that my guys have worked hard, sacrificed and prepared for this moment. I know they will be great representatives of the United States and ambassadors for the U.S. Army."

U.S. Army World Class Athlete Program and two-time Team USA boxing coach Sgt. 1st Class Joseph Guzman also watched the show on television, but he was in Rio. He predicts great things for Team USA Boxing.

"I didn't get to walk the opening ceremonies," Guzman said. "For me, I felt honored not only to represent Team USA and USA Boxing, but the Army WCAP and all the men and women currently serving our country. We got two wins (Saturday) so it was a great start for us."

WCAP Modern Pentathlete Sgt. Nathan Schrimsher walked in the opening ceremony and then immediately left for an off-site training camp.

"The opening ceremonies will be something that I will never forget for the rest of my life," Schrimsher said. "It was incredible!"

WCAP Modern Pentathlon coach Staff Sgt. Dennis Bowsher walked in the London 2012 opening ceremony, but this year he was en route to Brazil to serve as coach and training partner for Schrimsher.

"We flew over Friday night to head straight to our training camp, so I missed the opening ceremonies," Bowsher said. "We got into Rio on Aug. 15."

Whether or not they had the opportunity to walk in the opening ceremony, the Army-Olympian athletes and coaches said they were proud to represent the U.S. Army as part of the U.S. Olympic team.

"I'm excited to be wearing the USA kit," Nunn said, "with the Army kit in my heart."

Staff Sgt. John Nunn, a Soldier in the U.S. Army World Class Athlete Program, will compete in the Olympic men's 50-kilometer race walk Aug. 19. An Olympian in 2004 and 2012, Nunn qualified for his third Olympics by winning the 2016 U.S. Olympic Race Walk 50K Team Trials in February with a personal-best time of 4 hours, 3 minutes, 21 seconds.

BY THE NUMB#RS

National Water Quality Month

August is National Water Quality Month, an educational campaign created to remind people about the importance of protecting our water supplies. Learn more about National Quality Month with these facts.

748 million

Number of people who lack access to clean, drinkable water. Lack of safe drinking water and sanitation leads to diseases like cholera, malaria and diarrhea.

400

Gallons the average American family of four uses per day. On average, approximately 70 percent of that water is used indoors. One way to reduce water consumption is to repair leaky faucets and toilets.

75

Percentage of the Earth that is covered by water. Less than one percent of the water on Earth is actually fresh and usable.

46

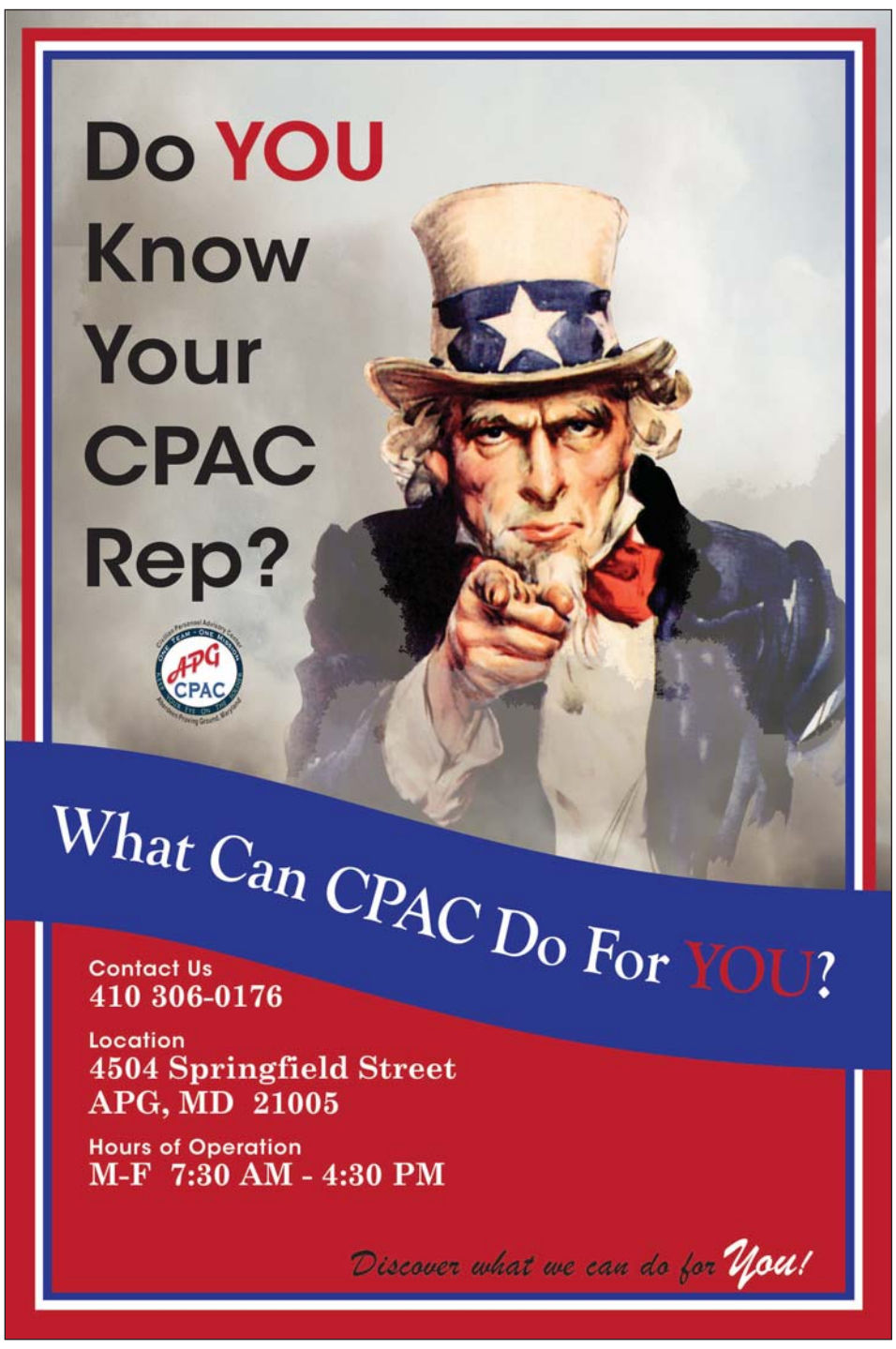
Percentage of the U.S. lakes that polluted and are considered unhealthy for swimming, fishing or aquatic life. Forty percent of all U.S. rivers are polluted.

44

Years since the Clean Water Act, or CWA, was enacted by Congress. The CWA is the primary federal law in the U.S. governing water pollution.

By **RACHEL PONDER,** *APG News*

Source(s): http://www.who.int/;http://www.conserve-energy-future.com/various-water-pollution-facts.php
http://www.nationalgeographic.com/; https://www.wikipedia.org/; https://www3.epa.gov/watersense/pubs/indoor.html



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

5 ways to reuse your copy of the APG News

1. Protect fragile items before storing them or sending them in the mail.
2. Line pet cages or litter boxes to keep them tidy.
3. Save the counter from a gluey, glittery mess during your next craft project.
4. Clean glass or windows for a streak-free shine.
5. Make a weed barrier in a flower bed or garden before laying new topsoil.

SHARP Expo gets attendees involved in training

Continued from Page A1

to escape an abusive marriage with help from her family and friends and the resources offered through the Harford County Sexual Assault/Spouse Abuse Resource Center, or SARC. She said she now gives back to the community by volunteering with SARC.

"Out of all the horror I experienced through abuse, I am a survivor," she said, "with one very clear, very specific dream: to help other victims."

Interactive exhibits

Attendees participated in several interactive displays, which ranged from viewing video testimonies from survivors of sexual assault and abuse, to being quizzed on SHARP terminology at the "Are You SHARP Enough?" display. Participants received annual training credit for completing five out of seven activities.

The "Bystander Intervention" exhibit featured clips from "What Would You Do?" a hidden camera television show on ABC which explores how ordinary people behave when they are confronted with a dilemma. In one clip, for example, a supervisor at a restaurant sexually harasses a waitress in front of customers.

After each clip, facilitator Dion Butler, with ARL, asked attendees how they would effectively intervene as a bystander, if confronted with a similar situation.

At the "Do you have C-O-N-S-E-N-T" exhibit, participants wore goggles that simulated drunken impairment and were asked to spell out "consent" with lettered tiles.

Ray Cropps, with the U.S. Army Communications-Electronics Research, Development and Engineering Center, or CERDEC, who led the activity, said most people struggled to spell "consent" while wearing the goggles. This illustrates how alcohol impairs judgement, he said.

"The way we tried to gear things this year, was to get people more involved," he said.

Spc. Cory Van Valen, with the 20th CBRNE Command, said he would definitely attend the SHARP Expo again if offered next year.

"I would say this type of training is exceedingly more efficient and engaging, and much more home-hitting, especially with some of the personal testaments we heard in the beginning," he said. "It really engages individuals on a much more personal basis."

Natalie Cagle, with RDECOM, called the instructional videos "very informative."

"It helps when you can visualize it," she said.

RDECOM Commander Maj. Gen. Cedric T. Wins praised the event organizers for taking a creative approach to SHARP training.

"The hands-on activities and visual instruction, really hit the main points, the key points [of SHARP]," he said.

For more information about the APG SHARP program visit the APG SHARP Resource Center located on the second floor of the Janet M. Barr Soldier Support Center in Bldg. 4305, or call 410-322-7154.

Sexual Assault Response Coordinator (SARC) Rachell Arceneaux with the U.S. Army Aviation and Missile Research Development and Engineering Center in Huntsville, Alabama, and Staff Sgt. Mitchell McKnight, with the U.S. Army Research Laboratory demonstrate self-defense techniques during the Sexual Harassment/Assault Response & Prevention, or SHARP, Expo at the ARL Conference Center Aug. 11.

Retention change coincides with new retirement system

Continued from Page A1

enlisted ranks in the active and Reserve components can receive notice that they must improve their performance or face separation from service, despite having reenlisted indefinitely.

"The big change … is that the (Bar to the Continued Service Program) now affects all enlisted ranks," said Sgt. Maj. Michael Kouneski, command career counselor at Fort Jackson, South Carolina.

"Where previously [the program was] Bar to Reenlistment and, if you were in the indefinite reenlistment program, you could say, 'The commander can't bar me to reenlist because I'm already indefinite.' Now if a Soldier has unsatisfactory performance the commander can bar you from continued service."

> **"As a Soldier in the Army you [must] … continue to find new ways to better yourself, because as the Army reduces in size it naturally becomes more competitive.**
>
> **Sgt. Maj. Michael Kouneski**
> Fort Jackson Command Career Counselor

The bar will be reviewed at periods of three and six months before separation procedures begin.

"[The reviews] are putting you on notice you are a candidate for separation under the new Bar to Continued Service," Kouneski said.

"As a Soldier in the Army you [must] … continue to find new ways to better yourself, because as the Army reduces in size it naturally becomes more competitive."

Under the new directive, Soldiers who wish to reenlist under the NCO Career Status Program, formerly the Indefinite Reenlistment Program, must wait until their 12th year of service to apply. The new entry point is meant to coincide with the Army's new retirement system, which begins Jan. 1, 2018.

The directive also reduces the years senior NCOs can stay in the Army by reducing retention control point levels for sergeants first class through sergeants major.

This change, which will take place over a three-year period, is designed to cause "senior enlisted personnel to exit earlier than anticipated and to mitigate the effects on Families and on the Army."

Soldiers seeking more information on these upcoming changes should contact their unit career counselors.

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Mark Your Calendar

EVENTS & TOWN HALLS

WOMEN'S EQUALITY DAY OBSERVANCE
AUGUST 24

Myer Auditorium, Bldg. 6000, 10:30 a.m. 32nd Annual Observance themed "Celebrating Women's Right to Vote" will feature guest speaker Maj. Gen. Camille M. Nichols, Director, DOD SARPO. For more information, contact Nnenna Ewing at 410-278-3428 or Elizabeth Young at 410-278-1392.

INSTALLATION TOWN HALL
AUGUST 30

APG North (Aberdeen) recreation center, 3 p.m. Questions in advance can be sent to Lisa McClure at lisa.a.mcclure9.civ@mail.mil.

INSTALLATION SOCIAL
AUGUST 30

APG North (Aberdeen) recreation center, 4:30 p.m. Open to all. Free refreshments and cash bar.

GARRISON BOWLING SOCIAL & LUNCHEON
SEPTEMBER 8

APG Bowling Center, 11 a.m. to 1:30 p.m. Free food and bowling open to military and civilian garrison employees only. For more information, contact Garirson HHC 1st Sgt. Richard Bernard at 410-278-9819.

HISPANIC HERITAGE MONTH OBSERVANCE
SEPTEMBER 22

APG South (Edgewood) recreation center. 10:30 a.m. to noon. For more information, contact Sgt. 1st Class April Marinakes at 443-567-1298.

MEETINGS & CONFERENCES

PROTESTANT WOMEN OF THE CHAPEL OPEN HOUSE
SEPTEMBER 1

Main Post Chapel. 9:30 a.m. to noon. Free childcare provided.

PROTESTANT WOMEN OF THE CHAPEL KICK-OFF
SEPTEMBER 8

Main Post Chapel. 9:30 a.m. to noon. Free childcare provided.

FINANCIAL PEACE UNIVERSITY
SEPTEMBER 13 - NOVEMBER 29

Main Post Chapel. 5:45 to 7:30 p.m. Free 12-week class for Soldiers, families and DA civilians. Refreshments provided. Register at the chapel. For more information, contact Joyce Wood at 410-278-4333.

FIRE EXTINGUISHER TRAINING
SEPTEMBER 15

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.

FIRE MARSHALL TRAINING
SEPTEMBER 27

Bldg. E4810. 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.

HEALTH & RESILIENCY

APG NORTH DENTAL CLINIC CLOSED
AUGUST 31

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

APG NORTH DENTAL CLINIC CLOSED
SEPTEMBER 2

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

APG NORTH DENTAL CLINIC CLOSED
SEPTEMBER 5

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

APG BLOOD DRIVE
SEPTEMBER 7

APG North (Aberdeen) recreation center. 9 a.m. to 1 p.m. Make an appointment online at militarydonor.com using code "APGMD."

CPR & AED TRAINING
SEPTEMBER 22

Bldg. 3147, Room 205. 9 a.m. and 1 p.m. Open to all. For more information, contact Mike Slayman at 410-306-0566.

ANNOUNCEMENTS & MISCELLANEOUS

LEADING IN THE ACQUISITION ENVIRONMENT COURSE
SEPTEMBER 27-30

Bldg. 6175, Guardian Gateway, 8 a.m. to 5 p.m. Hosted by Defense Acquisition University. Course provides an overview of the competencies and skills needed to lead in an acquisition environment. Experiential activities include role playing, simulation, communication, and critical-thinking exercises; a leadership challenge; and completion of a 360 degree feedback instrument and executive coaching to develop action plans related to the feedback. Level III certification in at least one acquisition career field and at least three years of Level III experience are required prerequisites for the course. Upon completion, students will earn 31 Continuous Learning Points. Applications due Sept. 6. For more information, visit **http://www.dau.mil/training/Pages/apply.aspx** or contact Ben Metcalfe at benjamin.metcalfe@dau.mil or 410-272-9471.

FORGING STAKEHOLDER RELATIONSHIPS COURSE
OCTOBER 5-7

Bldg. 6175, Guardian Gateway, 8 a.m. to 5 p.m. Hosted by Defense Acquisition University. Action-based learning course introduces professionals to the methods and skills necessary to identify, assess, and promote the building of stakeholder relationships required for success in the acquisition environment. Level III certification in at least one acquisition career field is a required prerequisite for the course. Upon completion students will earn 25 Continuous Learning Points. Applications due by Sept. 30. For more information, visit **http://www.dau.mil/training/Pages/apply.aspx** or contact Ben Metcalfe at benjamin.metcalfe@dau.mil or 410-272-9471.

APG SOUTH 2016 WATER MAIN FLUSHING

The APG South (Edgewood) 2016 water main flushing schedule is as follows: Through September: 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.

BIBLE STUDY CLASS

APG North (Aberdeen) chapel. 6:30 to 7:30 p.m. Soldier and Family Christian Fellowship Bible Study Class focusing on biblical fellowship and outreach and encouragement through prayer. Open to all. Free child care included. For more information, call 410-278-4333.

RETIRING SOON? UNCLE SAM WANTS TO THANK YOU!

Are you an APG Soldier or civilian nearing retirement from government service? Consider participating in the monthly Installation Retirement Ceremony. Hosted the fourth Thursday each month by the APG Garrison, the event includes awards and decorations provided to retirees and their spouses. Photo DVDs are provided to each retiree after the ceremony. All Soldiers and civilians are eligible to participate, regardless of unit or organization. For more information, contact Lisa M. Waldon at 410-278-4353 or email lisa.m.waldon.civ@mail.mil.

FIREWOOD AVAILABLE FOR SALE

Firewood is available, on a first-come first-served basis, at a cost of $20 per level standard 8-foot pick-up truck, $15 per level standard 6-foot pick-up truck, and $5 per car trunk load. For more information, contact Scott English at 410-436-9804 or Kathy Thisse at 410-436-8789.

MORE ONLINE More events can be seen at www.TeamAPG.com

If you see it, report it

Aggressive driving has no place at APG call 410-306-0550

Morale, Welfare & Recreation

Upcoming Activities

SAVE THE DATE

RIPKEN BALL GAME AND CRAB FEAST
AUGUST 27

The Civilian Welfare Fund will host a crabfeast at the party deck at Ripken Stadium. Picnic dinner includes smoked pork BBQ, roasted herb chicken, hot dogs, baked beans, coleslaw, tossed salad, steamed crabs, cookies and drinks. Tickets are $58 per person. Dinner begins 6:35 p.m., game starts 7:05 p.m.

Call 410-436-4467 to purchase a ticket.

APG OKTOBERFEST
SEPTEMBER 16-17

More details to follow at www.apgmwr.com.

LEISURE & RECREATION

DISNEY ON ICE DISCOUNT TICKETS
OCTOBER 28, 7:30 p.m.

OCTOBER 29, 11 a.m.; 2:30 p.m.; 6:30 p.m.

OCTOBER 30, Noon; 4 p.m.

Royal Farms Arena, Baltimore. Tickets are $23 each, while supplies last. Visit MWR Leisure Travel Services to purchase tickets. For more information, call 410-278-4011.

CHILD & YOUTH SERVICES

FAMILY MOVIE NIGHT
AUGUST 19

APG South (Edgewood) recreation center. 6 p.m. "The Land Before Time: Journey of the Brave." Free movie, giveaway, snacks, and craft activity. For more information, call 410-278-4011.

LET'S COOK CLASSES
SEPTEMBER 10

Corvias Community Center. 9 a.m. to noon. Ages 7+. $20 fee. To register, call 410-278-7571.

LET'S COOK CLASSES
OCTOBER 15

Corvias Community Center. 10 a.m. to 1 p.m. Ages 7+. $20 fee. To register, call 410-278-7571.

SPORTS & RECREATION

ADULT & CHILD GOLF OUTING
AUGUST 20

Exton Golf Course. 9 a.m. $30. Includes hot dogs, chips and drinks. Pre-register at Exton Clubhouse. For more information, call 410-436-2213.

KAYAK EXCURSIONS
AUGUST 27

Excursions leave from Skippers Point. Cost is $40 per person. 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-outdoorrec@mail.mil.

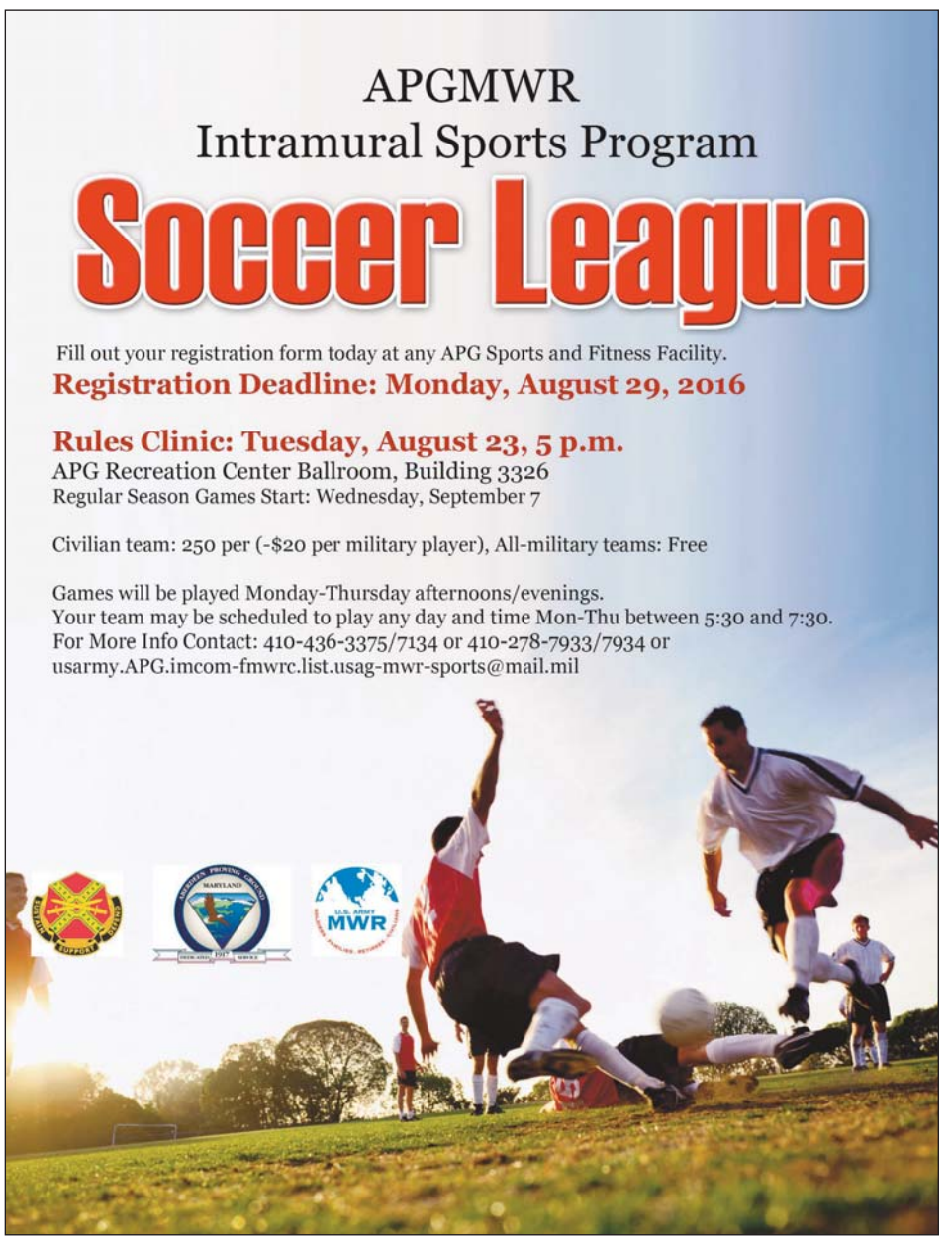
FLAG FOOTBALL
AUGUST 29

Registration Deadline Aug. 29. Rules clinic Aug. 24, 5 p.m. at APG North recreation center. Regular seasons starts Sept. 7. Civilian teams $250, -$20 per military player. All military teams are free. Games to be played Monday-Thursday 5:30 to 7:30. For more Information, call 410-436-3375.

ARMY COMMUNITY SERVICE

SMART START YOUR SMALL BUSINESS
SEPTEMBER 28

Bldg. 2503 11:30 a.m. to 1 p.m. Session explores how to start a business and qualities of a successful entrepreneur. Open to public. To register, contact Marilyn Howard at 410-278-9669.



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

inside the
INNOVATION
APG NEWS
at Aberdeen Proving Ground, Maryland
www.TeamAPG.com THURSDAY, AUGUST 18, 2016 Vol. 60, No. 33

inside

STRATEGY
DOD Acquisition, Technology and Logistics under secretary visits Adelphi, tells researchers technology must respond to evolving threats.
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LEADERSHIP
The Commander of the Army Materiel Command sits down for a Q&A.
Meet | B3

PARTNERSHIPS
ATEC and Germany explore possible mutually beneficial test and evaluation partnerships.
ATEC | B5

newsbrief

ARMDEC VERTICAL LIFT AIRCRAFT AGREEMENTS

Six Technology Investment Agreements were recently awarded under the Architecture Implementation Process Demonstrations, or AIPD, as part of the Future Vertical Lift efforts that continue in the Joint Multi Role Technology Demonstrator program.

The JMR TD is an Army science & technology program designed to develop, expand, and demonstrate new capabilities in vertical lift technology and is a precursor to the Department of Defense FVL program.

FVL will deliver the next generation of vertical lift aircraft to the Joint Warfighter, providing the speed, range, payload, and mission systems critical to successfully engaging the enemy in future operations.

The U.S. Army Aviation and Missile Research, Development and Engineering Center, or ARMDEC, leads the JMR TD effort.

AMRDEC has the mission to develop technology and engineering solutions for America's Soldiers. AMRDEC employs nearly 10,000 civilian scientists, researchers, and engineers.

Visit https://www.amrdec.army.mil/ or www.facebook.com/rdecom.amrdec for more information on AMRDEC.

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/HzQIow

Maryland Lt. Governor Boyd K. Rutherford speaks to the APG workforce during the Aberdeen Test Center, or ATC, quarterly Brown Bag Leadership session Aug. 12. Rutherford shared his career experiences, including his initial hesitation to run for elective office, and reminded attendees that leaders are "only as good as the team that you have around you."

Lt. Governor visits APG

Rutherford talks leadership, learns of APG and ATC missions

Story and photos by **LINDSEY MONGER**
ATEC

Maryland Lieutenant Governor, Boyd K. Rutherford visited the U.S. Army Test and Evaluation Command's Aberdeen Test Center, or ATC, for its quarterly Brown Bag Leadership session, Aug. 12, on APG North (Aberdeen).

ATC leadership sessions started in February 2014 with primary goals to connect senior leaders with future leaders within the ATC workforce and the larger APG community and provide the workforce the opportunity to learn about the philosophies, successes and failures of the visiting leaders.

The visit started with Rutherford attending a working luncheon with APG Garrison Commander, Col. James E. Davis, and ATEC and ATC senior leaders. Davis gave

See LT. GOV., page B7

ECBC opens MakerSpace to mission

Workshop brings 3-D printing to ECBC mission prototypes

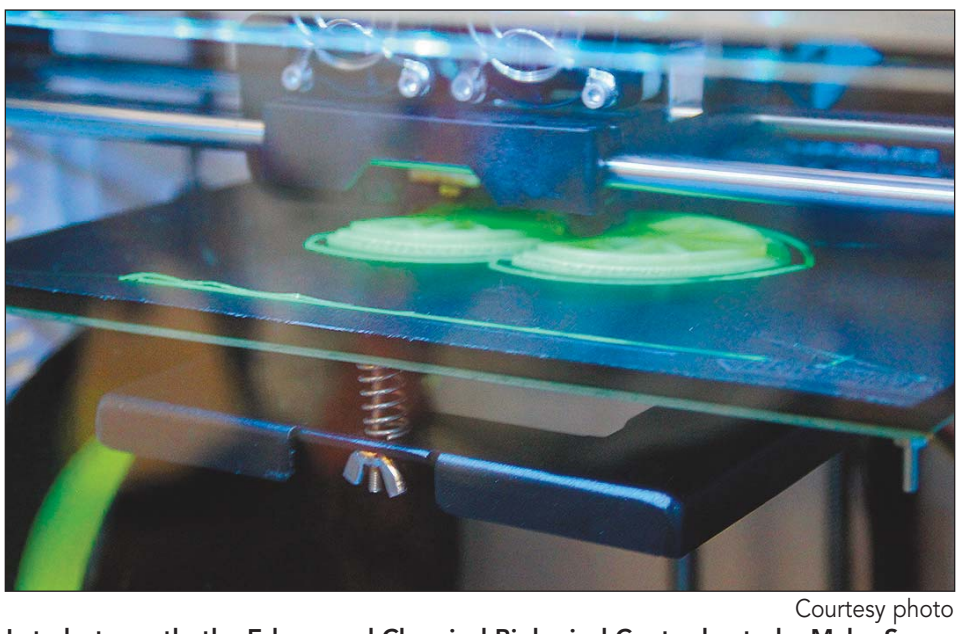
Edgewood Chemical Biological Center

Dozens of science and engineering researchers from across the Edgewood Chemical Biological Center, or ECBC, attended an Open House at the CBRNE Product Development Facility on APG on July 20 to learn about MakerSpace.

MakerSpace is an ECBC workshop of state-of-the-art 3D printers that will be available to any ECBC employee to use for making mission-related product prototypes and specialty items without charge from now until Sept. 30.

The MakerSpace workshop offers users seven different types of 3D printers and one laser cutter, plus the guidance of ECBC's team of 3D printing experts. MakerSpace participants will begin by taking a one-hour safety course followed by one-on-one

See MAKERSPACE, page B7



Courtesy photo

Late last month, the Edgewood Chemical Biological Center hosted a MakerSpace open house, during which ECBC employees learned about the state-of-the-art 3D printers available to them to make mission-related product prototypes and specialty items without charge through Sept. 30. A variety of desktop fused deposition modeling, or FDM, machines are available, including the MakerBot, uPrint, and FlashForge FDM machines. FDM machines can print with thermoplastic materials such as acrylonitrile butadiene styrene, polycarbonate, and nylon.

CERDEC summer camp connects pop culture to STEM

Seventh and eighth graders watch as water is poured down the elaborate chair-supported, duct tape-constructed track they designed and built as part of activities at the CERDEC Math & Science Summer Camp, Aug. 8-12.

Hosted by the Communications-Electronics Research, Development and Engineering Center, the week-long camp challenged students to use science and math to explore practical experiences in pop culture. Part of their week-long fun included building their own board games, and re-creating a popular scene from "Apollo 13."

CERDEC has supported STEM, or science, technology, engineering and mathematics, outreach for students in New Jersey and in Maryland for more than 20 years.

For more information about CERDEC student programs, visit www.cerdec.army.mil/student_programs. To learn more about the Army Educational Outreach Program, visit www.usaeop.com.

CERDEC photo

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Technology must respond to evolving threats, DOD official tells researchers

By **DAVID MCNALLY**
U.S. Army Research Laboratory

The Under Secretary of Defense for Acquisition, Technology and Logistics, Frank Kendall, emphasized responsiveness to changing threats during his meeting with scientists and engineers from the U.S. Army Research Laboratory, or ARL.

During his visit to the ARL's Adelphi Laboratory Center on Monday, Aug. 8, Kendall spoke about the Department of Defense's efforts to improve acquisition practices and implement sound investment strategies for the future force.

"We cannot assume that, when we put a system out, it's going to be fine for the next three or four decades," Kendall said. "We've got to stay on top of what the threats are doing. They're moving quickly. They're responding to us, and we have to do the same."

Kendall is the Department of Defense champion for what is known today as "Better Buying Power 3.0," or the third iteration of acquisition improvement. He said his primary goal is providing dominant capabilities to the warfighter so that the United States can maintain and extend technological overmatch.

"The ultimate aim is to develop what we refer to as the Third Offset Strategy," he said.

"Offset" refers to the combinations of technologies, organizational structures, and operating principles that will allow the U.S. to maintain military superiority without having to match a potential adversary plane-for-plane, tank-for-tank or troop-for-troop.

The DOD is pursuing technologies such as autonomy, artificial intelligence and related technologies as part of its third offset strategy. During Kendall's day-long visit, Army researchers showcased a variety of technologies meant to complement it.

At the ARL Network Science Research Laboratory, Kendall learned how industry and academia are working side-by-side with Army researchers through the Open Campus Initiative, which enables researchers from a variety of different domains to jointly conduct foundational research in Network Science.

"We are looking to understand the complex interactions between human, information and communications networks," said Dr. Brian Rivera, chief of the Tactical Network Assurance Branch.

"[The goal is] to provide improved communications and decision-making systems for the Soldier."

Through Open Campus, the laboratory collaborates with national and international academia, industry, small business and other government partners on forward-reaching research in areas of strategic importance to the Army.

Army neuroscientist Dr. Jean Vettel presented how her team is trying to improve Soldier performance by developing technologies that use information about the brain's network activity to enable technology that dynamically adapts to its user.

"We're interested in improving human-machine collaboration," Vettel said.

Vettel's team demonstrated a system developed with funding from the Office of the Secretary of Defense under the Autonomy Research Pilot Initiative, known as ARPI. In the system, humans team with computers to enhance performance on tasks like target identification.

Using two human agents and eight autonomous deep learning computer vision agents, the hybrid team of agents completed the tasks eight times as fast as a human would operating without the system, but with comparable accuracy of humans alone.

Army researchers also revealed a future vision of autonomous robotic systems exploring new environments, sharing intelligence and enhancing manned-unmanned teaming.

"This is where we want to go looking into the future," said Collaborative Alliance Manager Dr. Brett Piekarski, Micro Autonomous Systems and Technology Collaborative Technology Alliance.

"We really think it's in the distributed and collaborative intelligence, control, and resilient behaviors for large numbers of heterogeneous [or diverse] systems."

Kendall observed ground and air robotics in operation and listened to researchers discuss the challenges they face developing new technology.

"I know you're doing a lot of great work," he said. "The message for you is to work as hard as you can and get as much from the money you have as possible. That means technologies that are going to go into the hands of the warfighter and get into our fielded systems."

Photo by Jhi Scott, ARL

Under Secretary of Defense for Acquisition, Technology and Logistics Frank Kendall, center, learns about Army Research Laboratory efforts in robotics from Collaborative Alliance Manager Dr. Brett Piekarski, right, during an Aug. 8 visit to Adelphi, Maryland.

C4ISR SI lab ensures network interoperability

Story and photo by **DAVID VERGUN**
Army News Service

Without a reliable network, mission command and warfighting would be severely degraded.

The Army's only test laboratory that ensures network reliability is located at APG, at System Engineering and Integration, part of the Space and Terrestrial Communications Directorate at the Communications-Electronics Research, Development and Engineering Center, according to SEI program director Scott Newman.

The lab, known as C4ISR Systems Integration Lab – with C4ISR standing for Command, Control Communications, Computers, Intelligence, Surveillance and Reconnaissance – tests every type of radio, computer and software that touches the tactical network, whether carried by Soldiers dismounted, mounted or even used in aircraft, he said.

Not only Army network stuff is tested, he added. Every service uses the lab to test its networks to ensure interoperability.

Scott Newman, program director of System Engineering and Integration of the Space and Terrestrial Communications Directorate at CERDEC, shows the C4ISR Systems Integration Lab. It is the Army's only lab that ensures network reliability.

Efficiencies Realized

Besides having a great team of professional testers, Newman said the other thing he is most proud of is the efficiencies they've gained for the Army.

For example, up until about three years ago, CERDEC would send hundreds of technicians from APG to Fort Bliss, Texas, and adjacent White Sands Missile Range, New Mexico, for months at a time to set up network gear used by Soldiers during Network Integration Evaluation exercises. It was hard work, operating in the dust and heat, he said.

Then in 2013, the lab was established at APG that could replicate everything being used at NIE, he said. Since that time, Newman said he estimated a fourfold savings in cost.

Today, the lab tests both the annual NIE network gear and that used in the other annual exercise also at Fort Bliss and White Sands, known as the Army Warfighter Assessment.

AWA assesses U.S. Army Training and Doctrine Command concepts and capabilities and NIE focuses on programs of record formal testing, he said, explaining the difference.

How Testing Is Done

As of now, the lab has 300 radios of all types used by Soldiers, including the latest ones as well as the legacy ones, Newman said.

The radios are all wired on what is known as a "federated, distributed architecture that's closed and restricted," he said.

What that means is no network device is allowed to connect to a Soldier in the field for security reasons, he said. However, the lab's network is connected to 37 other federated locations that collaborate on testing. For example, the lab is connected to:

- Tactical System Integration Facility on APG, where the mission command lab is located
- The Army's Test and Evaluation Center on APG
- All of the Army Research Labs, including to their supercomputers
- Redstone Arsenal, Alabama, where testing can be done on aircraft mockups
- Various other installations like Forts Benning, Bliss, Gordon and so on, as well as Navy and Air Force installations
- Sometimes, a network connection is established with a vendor as well

Using the example of Redstone Arsenal, PEO Aviation has connectivity with the lab, Newman said. "I tie into them and they actually execute a thread from the cockpit of that [mocked up] aircraft. It then goes through the Defense Research Engineering Network, then into our tactical network here. Then we debug and diagnose to ensure everything is working properly."

Again, cost savings are realized because technicians don't have to travel to the arsenal, he said.

Currently, the lab is performing testing for an AWA exercise, he added.

Threads and Apps

"We run around 1,600 to 1,800 applications a day," he pointed out. "In terms of applications I run, the short answer is all of them. All of the mission command stack, all of the different network management, all of the intelligence, all are running.

"From here, I can execute a thread and watch it go over the network," he continued. "I have different test schools that can analyze it and see if it works. If it doesn't work, it gets debugged and diagnosed."

Incidentally, a "thread" is a connection from the lab to somewhere else, he explained. "So if I want to do a call for fire. I execute a call for fire and that will go over networks and hits another application on the other side that says, okay this is what I've got to target.

"That's one thread. There are many steps within a thread. Basically, we've got to validate each step is working properly," Newman said.

Once threads are executed and the network is diagnosed, validating configurations get passed on to the unit so they can install it, if a particular software or even hardware requirement is needed, he said. Also, a full technical report is produced after each test and that is sent to the unit or vendor whose network capability is being evaluated.

For instance, one recent vendor failed testing at the lab, he said. The lab wrote up a full technical report for the vendor and using that report, the vendor produced a successful component that was validated to connect to the network.

Simulated Networks

With just 300 radios, how can the lab replicate a brigade combat team, with 500 radios or even a corps which has more? Newman explained:

The lab augments its 300 radios with a modeling simulation capability called MODESTA, a CERDEC-developed effort, he said. MODESTA allows the lab to simulate any number of radios desired. That's where ARL's supercomputers help with the task, he added.

All of these networks and radios can also simulate an actual battlefield, he said. There are radio frequency attenuation matrices, "which gives us the ability to replicate terrain, foliage and movement. So these radios think that they are moving around in whatever scenario I want. I can have them in the desert, dense foliage, jungle, Korea, wherever I want to place them. These radios are networked and run different mobile and networking protocols."

It gets even more interesting, he said, when a simulated event causes the network to break apart or even collapse. If a network breaks apart, the lab uses different tools to try and "self-heal" the network.

"So, I can have a network break apart and create two separate islands and I want to heal them with an aircraft," he said, giving just one example. "I can actually bring in a simulated aircraft and heal those links so I once again have one big network."

In other words, the aircraft's own unique onboard network talks to the two networks and establishes communications between them.

Army simplifies digital certificate monitoring for Soldiers in the field

By **KRISTEN KUSHIYAMA**
CERDEC

The U.S. Army's tactical cyber defense research and development organization transitioned a digital certificate monitoring tool for use by Soldiers in the field to a funded program of record June 1.

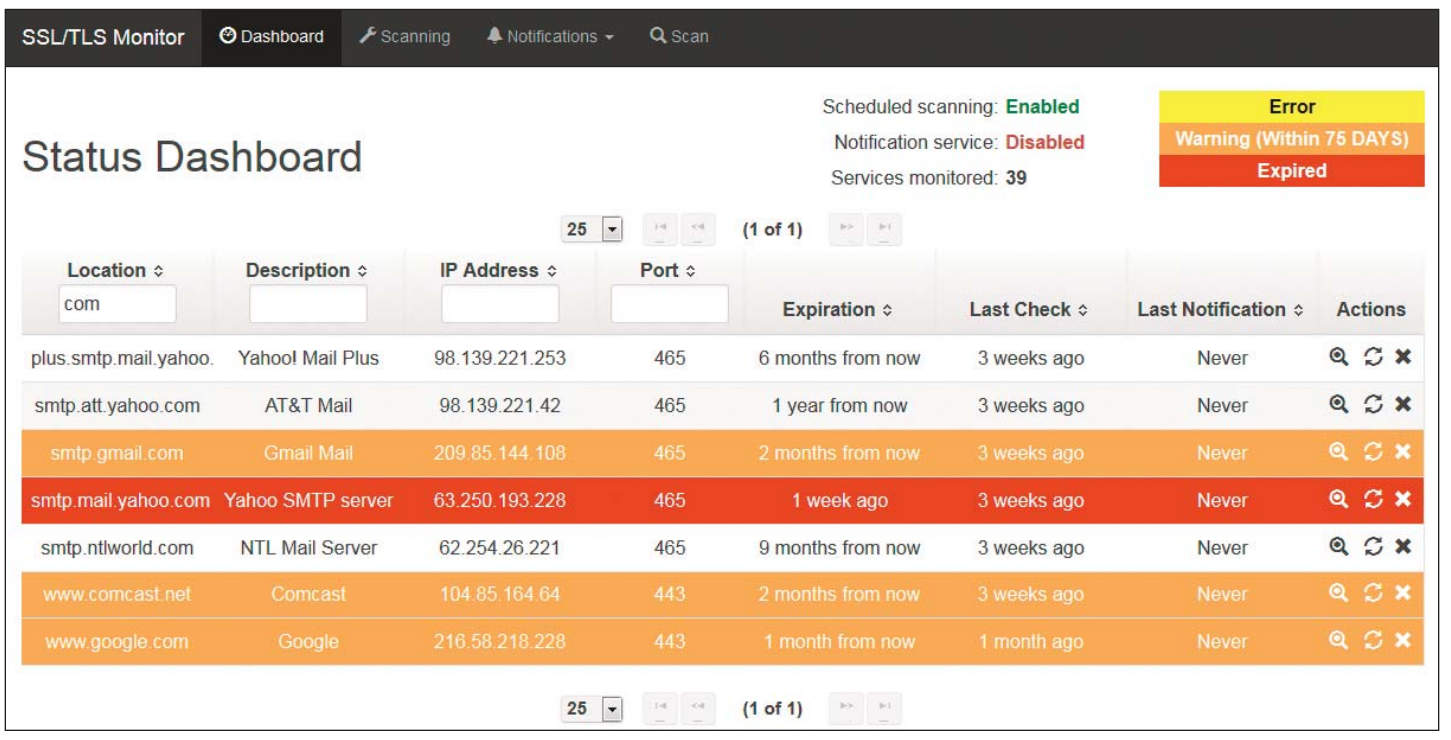
The U.S. Army Materiel Command's Communications-Electronics Research, Development and Engineering Center, or CERDEC, transitioned a tool called Public Key Infrastructure in a Tactical Environment, or PKITE, to Program Executive Office Command, Control, Communications- Tactical, or PEO C3T, as a program of record for the Warfighter Information Network – Tactical, or WIN-T, Increment 3.

The Army uses digital Public Key Infrastructure monitoring, or PKI, certificates to ensure authentication, non-repudiation, data integrity and confidentiality of digital information.

"The authentication proves you are who you say you are. Non-repudiation is when you digitally sign a document we can prove you signed it, and data integrity ensures it hasn't been modified since then… Confidentiality creates an encrypted session between the user and the browser," said Bob Fedorchak, CERDEC Space and Terrestrial Directorate tactical public key infrastructure technical lead.

The Army's increased use of digital technology has led to multiple certificates-enabled communications devices per Soldier, and PKITE version 1.0 is a solution to monitoring certificates for these devices.

"One of the major challenges the Army has faced as we start to put certificates on devices is that it is a very manual process for the Soldier to go to each device, look at the certificate, and say 'Oh, it's going to expire in six months.' Right now it's completely manual, but we have automated that process by providing the Soldier with a web service that allows them to monitor the certificates automatically," Fedorchak said.



U.S. Army photo

A screen shot from the Public Key Infrastructure in a Tactical Environment, or PKITE, which simplifies digital certificate monitoring by Soldiers in the field. CERDEC S&TCD recently transitioned PKITE to PEO C3T for its insertion into existing systems.

PKITE automatically gathers information about specified devices on the system and organizes that data into a dashboard.

"The reason monitoring device certificates is important is because if a certificate expires, the webserver or the device that is using it will fail. You can no longer access the server or the function that is using the PKI piece," Fedorchak said.

PKITE alerts the Soldier monitoring certificates that the certificate will expire in a prescribed number of days so he or she has enough time to obtain new certificates to prevent a system or device failure.

"It's a similar concept to your CAC [Common Access Card]. When your CAC expires you usually get a little pop-up that says you are going to need a new CAC within X number of days," said Rocio Bauer, chief of the Tactical Network Protection Branch in the CERDEC S&TCD Cyber Security/Information Assurance Division.

The difference between a CAC and a device is that the CAC certificate expiration date is printed on the card where the person can see it and take the appropriate actions before it expires, whereas the device certificate is not visible on the hardware decreasing the likelihood the user will know action needs to be taken to prevent expiration.

"The first time the user often finds out is when a problem occurs, and they track down the problem to an expired certificate," Fedorchak said. (like we had in Cyber Blitz).

Soldiers experienced this expired certificate scenario during CERDEC's Cyber Blitz, an event that looked the role cyber plays in a tactical operations center, in April.

Though Cyber Blitz focused on more than PKITE, CERDEC used the event as an opportunity to start familiarizing Soldiers with PKITE on WIN-T Inc 3.

"During Cyber Blitz there were two PKI related threads executed - one with PKITE certificate monitoring and one without," Fedorchak said. "When executed without PKITE certificate monitoring, the Soldiers encountered two separate failures related to an expired certificate. The first was easy to identify and work around, but the second took much longer to identify the root cause. When executed with PKITE Certificate Monitoring, the automations officer was informed that a certificate was about to expire within the next two weeks giving the automations officer time to replace the certificate prior to it expiring and prevented any failures from occurring."

CERDEC will continue to work additional upgrades and maintenance as required, but they will not be part of PM's official program, Bauer said.

Meet Your Army: Gen. Dennis L. Via, Army Materiel Command

Army Materiel Command

Gen. Dennis L. Via is the 18th commanding general of the Army Materiel Command, one of the largest commands in the military with a workforce of more than 60,000 personnel and operations impacting all 50 states and 145 countries around the world. Via is one of about a dozen active duty four-star generals and one of only eight African-American four-star generals in history.

Via joined the ROTC program while attending college at Virginia State University. Upon graduation, he was named a Distinguished Military Graduate and received his commission as a second lieutenant in the Signal Corps. He holds the distinction of being the only Signal Corps officer in U.S. Army history to achieve the rank of four-star general. Via attended Boston University, where he received a master's degree. He is also a member of the Council on Foreign Relations.

Via has held a variety of leadership assignments throughout his career, commanding at all levels of the Army. During his previous assignment as Army Materiel Command's Deputy Commanding General, Via led the Army Materiel Command Task Force in Kuwait, which was responsible for the retrograde of equipment at the conclusion of Operation New Dawn.

Q: Where were you born, and where did you grow up?

Gen. Via: I was born and grew up in the small industrial town of Martinsville, Virginia. I lived there until I was 18 and left for college.

Q: When you were young, what did you want to be when you grew up?

Gen. Via: My father was a house painter, and I had a teacher who I admired who taught brick masonry; they both influenced my early aspirations. I wanted to own a construction company following graduation from high school and build residential homes.

Photo by Sgt. 1st Class Michael Zuk

Gen. Dennis L. Via, Army Materiel Command Commander, and his wife, Linda, address a crowd of AMC Department of the Army Civilians, Soldiers and contractors during the AMC Holiday Open House Dec. 15, 2015, at Redstone Arsenal, Alabama. The Army Materiel Command is one of the largest commands in the military, with a workforce of more than 60,000 personnel and operations that impact all 50 states and 145 countries around the world.

Q: What inspired you to join the Army and pursue a career in the Army?

Gen. Via: At the end of my sophomore year at Virginia State University, I joined the ROTC program. I was very impressed with the classes, and I enjoyed the training environment and the physical challenges. We also had great cadre and an extraordinary Professor of Military Science. ROTC taught me about leadership, discipline, and responsibility -- all important attributes for starting a career. Following my commissioning and my initial assignment at Fort Bragg, North Carolina, I knew this was something that I wanted to pursue as a career.

Q: What do you consider to be your greatest achievement both personally and professionally?

Gen. Via: Personally, my wife, Linda, and I celebrate 33 years of marriage this year, and we have raised two wonderful sons who are growing into successful, respectable young men. We committed early on to maintain balance between professional and family life, and I think that's our greatest achievement.

Professionally, the best part of my career has been the privilege to serve with such great men and women from across the country. During a career spanning over 36 years, I've had the privilege of commanding seven organizations and leading Soldiers from second lieutenant to general, and now Department of the Army Civilians, as well. Watching those under my command develop themselves personally and professionally and reach new heights in their career aspirations is the best accomplishment I could have.

Q: What is your favorite song or artist that if you were alone, you might get caught singing along?

Gen. Via: I have many favorite artists and songs, but I truly enjoy jazz music. Linda and I even took a jazz cruise which was one of the most enjoyable experiences of our lives.

Q: What hobbies do you enjoy when you are not at work?

Gen. Via: I enjoy fishing. Linda and I have also been known to find the dance floor on occasion.

Carl, how popular is the APG Facebook page?

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This Week in APG History

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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 1976.

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

2020 2010 2000 1990 1980 1970 1960 1950

10 Years Ago

Aug. 24, 2006

A multi-purpose vehicle than can serve as a crane, a troop carrier or an ambulance sits on display during the Platform Systems Demonstration for Tactical Wheeled Vehicles event hosted by the U.S. Army Aberdeen Test Center.

25 Years Ago

Aug. 21, 1991

Roberta Pimental, recreation center snack bar manager, whips up an ice cream sundae, one of the many food items available in the new facility in Bldg.3326.

50 Years Ago

Aug. 18, 1966

Sgt. Maj. E.I. Kimbell of the OC&S Officer Candidate School, left, discusses site plans for 35 additional training buildings, part of a $3.7 million contract, with construction contractor Merle McDonnell of Consolidated Engineers Incorporated of Baltimore.

Army joins cyber conversation, focuses on innovation

By **KELLY WHITE**
CERDEC

Failure to change in the cyberspace is a decision to fail.

That was the message from Maj. Gen. Stephen Fogarty, commanding general, U.S. Army Cyber Center of Excellence, during the opening remarks at the Armed Forces Communications and Electronics Association's TechNet Augusta 2016.

The conference enabled attendees, both military and civilian, to understand the challenges the cyber element introduces into a combat arms fight, according to the AFCEA website.

"We need to change the way we look at the problem with cyber. There are no other options," said Fogarty. "Whether you are industry, academia, government or contract, we need to all contribute to the greater good and provide solutions in the cyber fight."

Cyber dominance was the general theme at this year's conference, held in Augusta, Georgia, with an emphasis on innovation, which was echoed throughout the week during multiple panels and engagement sessions.

Gen. Dennis Via, commanding general, Army Materiel Command, spoke of the stark reality of cyber in today's fast-paced environment, noting that "cyber is the only domain we share every day with our adversaries." Via called on the next-generation to help combat the cyber threat and encouraged government and industry to hire both veterans and uniformed military, adding "at the end of the day, it's all about the Solider."

To cap off the conference, leadership from the U.S. Army Communications-Electronics Research, Development and Engineering Center, or CERDEC, participated in a panel that looked at the challenges from a cyber-convergence perspective.

The panel, called "Cyber Convergence in Combined Arms Acquisition," provided CERDEC the opportunity to share its most significant functions and challenges with cyber, while also relating how industry can help.

Photo by Kristen Kushiyama, CERDEC

The Cyber Convergence in Combined Arms Acquisition panel, represented by John Willison, CERDEC S&TCD director, and Gary Blohm, CERDEC I2WD director, along with four U.S. Army Training and Doctrine Command capability managers during TechNet 2016 in Augusta, Georgia.

Kicking off the panel was Gary Wang, Army Deputy Chief Information Office/G6 and moderator for the session. He was joined by CERDEC's John Willison, Space & Terrestrial Communications Directorate director, and Gary Blohm, Intelligence and Information Warfare Directorate director, along with four U.S. Army Training and Doctrine Command capability managers, or TCMs, for Tactical Radios, Networks & Services, Electronic Warfare and Cyber from the Cyber Center of Excellence.

Wang asked for the CERDEC panelist to look at cyber as a supporting arm, while the TCMs were asked to focus on the threat, and how it translates into requirements and capabilities.

"This allows industry to know what we're looking for," he said.

Speaking on acquisition, Blohm spoke of architecture and moving away from the standard stovepipe.

"How do we provide the agility, control and access while trying to stay ahead of the threat," he said. "It's not about building one size fits all. We need to have a broader conversation with industry and TRADOC partners and work architecture by breaking down classifications, policies and procedures."

Innovation and what it means for the Army in the cyber space was the focus for Willison during the panel, emphasizing its importance within the science and technology, or S&T, community.

"One of our priorities in the S&T world is to take a step back from developing near-term capabilities and, in my opinion what might be more valuable, is to inform investment decisions and show what's possible, in what timeframe," he said.

Willison talked about three areas of innovation – making the network more expeditionary and addressing both radio frequency and cyber threats – and how events like CERDEC's Cyber Blitz work toward innovative outcomes for the Solider.

"We're doing a lot to really root our investments back in the threat," Willison said. "We've had a number of initiatives that are different than your standard way of S&T and instead focus on the experimentation process where lessons learned can immediately affect a Soldier's mission."

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- Send story ideas or pre-written content to **amanda.r.rominiecki.civ@mail.mil** or call 410-278-7274 for more information.

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ATEC and Germany team up to promote test cooperation

By **SANDY GIBSON**
ATEC

Team members from the U.S. Army Test and Evaluation Command, or ATEC, visited Germany to participate in an exchange of test and evaluation, or T&E, information with the German Ministry of Defense, or MOD, earlier this year.

The team, which included six Army Evaluation Center and three Aberdeen Test Center delegates along with the German liaison officer, traveled to three Bundeswehr Technical Centers, commonly known as WTD, in Meppen, Trier, and Greding, and the Robotics Test Facility in Koblenz, to tour their test facilities.

The term 'Bundeswehr' refers to Germany's unified forces which include the Army, Navy, and Air Force. Germany's military is one of the largest in Europe and the second largest in the European Union.

Photo by Frank Müller

A team from the U.S. Army Test and Evaluation Command, Aberdeen Test Center and Army Evaluation Center pose for a photo during a trip to Germany to tour the German Ministry of Defense Bundeswehr Technical Centers in Meppen, Trier, and Greding and its Robotics Test Facility in Koblenz. The visit was geared toward exploring mutually beneficial test and evaluation partnerships as part of a new working relationship between ATEC and their German counterparts.

Weapons and Ammunitions

The visit started with a tour of the Bundeswehr Technical Center for Weapons and Ammunitions, or WTD 91, in Meppen.

WTD 91 is the central T&E center for weapons and ammunitions used by the Bundeswehr and has the largest fully instrumented ground firing range in Western Europe, where ammunition of all calibers can be fired.

The WTD 91 visit gave both organizations an opportunity to learn how each country works and what kind of information and technology is available to be shared and distributed.

Mary Ellen Raymond, lead engineer for test and safety in AEC's Mounted Systems Evaluation Directorate, or MSED, gave briefings on ATEC's organizational structure and test capabilities and explained how the command fit into the larger acquisition process in the U.S.

ATEC's German liaison officer, Eberhard Kloeckner, discussed the status and explained the objective of the upcoming Test and Evaluation Program, or TEP, memorandum of agreement, or MOA, which is in the final stages of development and when signed, will promote defense T&E technology cooperation; allow for the reciprocal use of test facilities and ranges; and will facilitate the transfer and exchange of information, equipment, and resources between MOD and DOD.

According to Kloeckner, the ability to exchange technologies, share information, operate within all test facilities, and cooperate with the development of standards and methodology will enhance the capabilities and effectiveness of weapons systems for both the U.S. and Germany.

Kloeckner added that the TEP MOA will also reduce overall costs and risks for both nations through the sharing of information, including future defense requirements and current and future technological developments.

The ATEC and WTD 91 teams discussed how research and development, or R&D, and T&E worked within their respective organizations as well as the shared challenges both countries faced with contracting, limited resources, and time constraints. The Budeswehr, like the U.S. Army, is in a fiscally constrained environment where more has to be done with less.

At the end of the visit, the two organizations sat down to discuss how to proceed with their new working relationship and formulated a plan to allow each country to build upon the strengths of the other. A list of action items was drafted to outline the cooperation efforts between Germany and America and their future partnership in the T&E of weapons systems and ammunitions.

Land-Based Vehicle Systems

Next up was the Bundeswehr Technical Center for Land-Based Vehicle Systems, Engineer and General Field Equipment, or WTD 41, in historic Trier. Trier is the oldest city in Germany, dating back to 16 B.C. and the reign of the Roman emperor, Augustus Caesar.

WTD 41 handles all of the Bundeswehr's land-based vehicle systems (wheeled, tracked, and special application vehicles) and their respective components, as well as engineer support and general field equipment.

The ATEC team touredd WTD 41's automotive test facilities and looked at how they conduct tests on their synthetic test courses using robotically-driven vehicles.

"Their testing is similar to ATEC's," said Brian J. Wise, ATC's test director for the Unmanned Vehicle Test Division. "They have a lot of similar automotive facilities and objectives for performance and reliability testing."

WTD 41 has numerous test tracks and terrains of various soil conditions and degrees of difficulty used to conduct mobility trials. The ATEC team had the opportunity to ride in several different German vehicles on various synthetic, secondary, and off-road test courses.

Gregory R. Brewer, acting chief for AEC's Tactical Wheeled Vehicle Division, explained that although WTD 41 and ATEC share the same automotive capabilities, WTD 41 uses their robotic drivers capabilities far more than ATEC does.

"WTD 41 extensively uses robotically driven vehicles over their synthetic automotive test courses to limit driver exposure and to eliminate the possibility of test drivers avoiding the most severe obstacles on the test courses," Brewer said.

Brewer added that forming a partnership with WTD 41 would afford ATEC the opportunity to test their automotive capabilities in a different region of the world.

Robotics

The team also traveled to Koblenz to visit the Robotics Test Facility, or RTF, and were given tours of the facility's state-of-the-art robotic test settings and demonstrations of robotically-driven and remote-controlled vehicles.

The two organizations discussed the need for international test standards and how to best interact with and support the various organizations currently working to construct overarching test methodology.

Additional discussions focused on the importance of the standardization of testing and the Interoperability Profiles, or IOPs, currently in place to help standardize robotic hardware and software interfaces, plus several of the interoperability experiments RTF has already participated in.

"I would love to see future collaboration and networking between ATC and WTD 41 on robotics test technology and the development of international test and operation procedure's on robotics test technology," said Kloeckner. "Having our subject matter experts working together, our organizations have the potential to become the lead government agency in robotics test technology."

Sandy Sheng, AEC's ATEC System Team chair, noted that one of the most significant and noticeable differences between the two countries is how their acquisition communities are organized. According to Sheng, the German acquisition community is co-located with the T&E community and shares various roles, while the American T&E community is spread out between various organizations.

"Germany's engineers and T&E are within one house, while T&E in the U.S. is separate from all the other acquisition processes," Sheng said. "Germany's entire acquisition process works together, which makes it easier to discover failure modes and quickly pinpoint a system's weak areas prior to testing."

Keith D. Adkins, Jr., a mechanical engineer in AEC's Integrated Suitability and Methodology Evaluation Directorate, was also impressed with Germany's acquisition system compared to the U.S. model.

"I was very impressed with how agile Germany's acquisition system is due to its smaller size," Adkins said. "Their acquisition system seemed to be a better collaboration and systems engineering style involvement from cradle to the fielding of a program."

Information Technology & Electronics

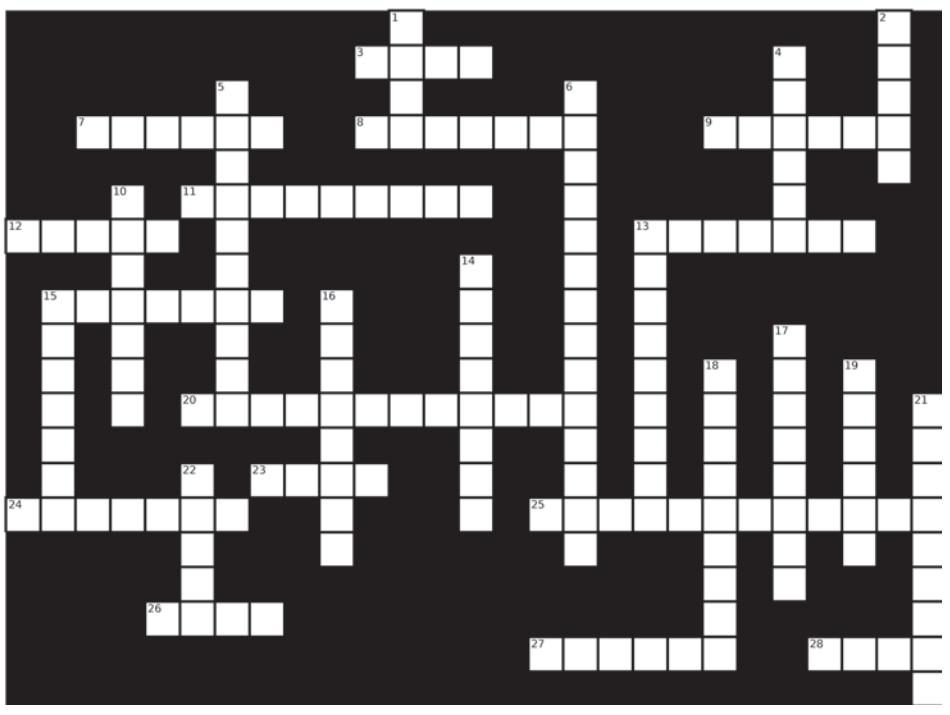
The final portion of the visit was spent at the Bundeswehr Technical Center for Information Technology and Electronics, or WTD 81, in Greding, where team members watched demonstrations of the target simulation dome used to test infrared aircraft-tracking technology and the anechoic chamber, a room designed to completely absorb reflections of either sound or electromagnetic waves.

WTD 81 is also home to Europe's largest fully-shielded hangar for the study of electromagnetic compatibility and electromagnetic effects, and one of the world's largest dome structures (ATC has a similar, but larger dome). The dome houses a multispectral target and scenario simulation facility used for the realistic simulation of battlefield scenarios in the visual and infrared range.

Upon the team's return stateside, they met with ATEC's commanding general, Maj. Gen. Daniel L. Karbler, to brief him on their visits to the technical centers and the RTF.

During the briefing, it was recommended that ATEC hold annual test technology workshops with the Bundeswehr technical centers, which Kloeckner said the MOD concurs with and Karbler supports.

"I was very excited when I got the 'thumbs up' from Maj. Gen. Karbler to support the establishment of annual test technology workshops between the U.S. and Germany," Kloeckner said. "Test technology workshops between the two countries will become the equivalent of the R&D workshops already in place between the U.S. Army Research, Development, and Engineering Command and German R&D organizations."



The APG Crossword

Up in the Air

To celebrate how far we have come in the field of aviation, August 19 is designated as National Aviation Day. See if you can "fly" through the trivia puzzle below.

By **LAUREN FINNEGAN,** *APG News*

Across

3. This force makes air travel over the top of the wing faster than it flows beneath the wing.
7. The number of seconds that the Wright Flyer flew in its first flight.
8. The white trail that a plane leaves in the sky can be used to predict this.
9. In the 2016 Airline Quality Report, this airline received the worst rating.
11. The airport in this city has a USGA approved golf course.
12. According to "Travel Weekly," in-flight turbulence is becoming more frequent due to the effects of increased carbon dioxide levels on this layer.
13. These trophies used to be given to pilots who made stupid mistakes.
15. This hinged flight control makes it possible for a plane to turn left or right.
20. The King Fahd International Airport in this country is larger than the entire country of Bahrain.
23. Planes traveling internationally usually have this painted on the tail.
24. In 2003, a Boeing 727, piloted by Benjamin _____ , took off from Luanda, Angola, and has been missing ever since.
25. London's Heathrow Airport uses a car equipped with this to scare birds away from the runway.
26. According to Traveller, the world's busiest flight route is from Seoul to this South Korean resort island.
27. This percentage of people report being afraid to fly.
28. Passengers seated in this part of the plane have a 40 percent higher chance of survival in a crash.

Down

1. Window shades are open during take-off and landing so passengers and flight attendants can see if this is occurring and know which exit to use.
2. The combination of air pressure and low humidity inside airplanes diminishes people's ability to taste _____ and sweet foods.
4. _____ Airways was named as the most luxurious airline in the world for its three room suite that comes with an in-flight chef, flat screen television, and a butler.
5. This is the word for "fear of flying."
6. A plane's life is measured by the number of times it undergoes this.
10. All commercial pilots who fly internationally are required to be able to speak this international language.
13. This world's fastest plane is able to outrun a potential missile strike.
14. Air travel is the second safest form of travel, followed by this form.
15. This city is home to the world's busiest airport.
16. The world's highest air traffic control tower can be found in this country.
17. The body of the aircraft is known as the _____.
18. The BD-5J Micro, the world's smallest jet aircraft was featured in this famous Bond Film.
19. After Wilbur Wright was injured in this sport, he chose not to pursue his plans of becoming a teacher.
21. In 1939, this President proclaimed Aug. 19, Orville Wright's birthday, to be National Aviation Day.
22. In 1987, American Airlines saved $40,000 a year by removing one of these from each salad it served.

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

Solution to the August 11 puzzle

Lt. Gov. challenges leaders to be engaged

Continued from Page B1

Rutherford an overview of the installation, and the ATC technical director, John Wallace, provided information on the center's mission.

After lunch, ATC commander, Col. Morris L. Bodrick, introduced Rutherford to the APG workforce.

"I'm really honored to be invited here today to give you some of my thoughts on leadership and share a little bit about my personal story," Rutherford said.

Rutherford was born and raised in Washington, D.C., where he later attended high school at Archbishop Carroll High School.

Rutherford received his bachelor's degree in Economics and Political Science from Howard University in the District of Columbia, and a master's in Communications and Management and a law degree from the University of Southern California.

After working in banking and technology sales, Rutherford said he had a change of heart regarding his career choice for the future.

Rutherford shared his story of running for elective office, which, he said, "was not what I had in mind a couple of years ago."

Rutherford had served as the secretary of the Department of General Services under then Governor Bob Ehrlich, in the same cabinet as Larry Hogan, who was the secretary of appointments at the time. Serving as cabinet secretaries, he said they found they shared many of the same political philosophies. When Hogan began making moves to run for governor, it was no surprise for Rutherford to be considered as his partner.

Maryland Lt. Gov. Boyd K. Rutherford gives a "thumbs up" before taking off for an overview flight of Aberdeen Test Center, or ATC, on Aberdeen Proving Ground, or APG, during his visit Aug. 12. Prior to the flight, Rutherford spoke with the APG workforce about leadership during ATC's quarterly Brown Bag Leadership session.

"In Winter of 2013, I received a call from a friend (who also was a friend of Larry Hogan) who asked me to meet him for coffee to talk about something that had serious political implications," Rutherford said. "I was hoping my friend wouldn't ask me to run for lieutenant governor with Hogan."

But the friend did.

Rutherford stated that Hogan had asked his friend to talk to him about considering running for lieutenant governor when Hogan ran for governor.

After some convincing and talking to his family, Rutherford decided he wanted to join forces with Hogan to help change Maryland for the better.

Rutherford explained there were a lot of people who thought he and Hogan had a good chance of winning the nomination.

"We believed, and we were not afraid to fail, trying," he said. "The campaign taught us about perseverance and continuing to fight no matter how long the odds were. This has been something that has helped us after taking office."

Both Hogan and Rutherford have been in office since Jan. 21, 2015.

Rutherford shared some challenges he and Hogan have faced since their time in office.

"In positions of authority, the truth is you never stop learning or growing or developing and you realize very quickly that you're only as good as the team that you have around you," Rutherford said. "You can't lead the team from behind your desk."

Rutherford encouraged people to get out and get engaged with their teammates. "You will be able to talk to those people who are really the subject matter experts and you will be able to learn from them," he said.

After thanking everyone for the opportunity to come out and share his thoughts on leadership, Rutherford wrapped up the session by opening up the floor for questions and answers and further discussions with the APG workforce.

After the session, Bodrick and Wallace gave Rutherford a viewed of several ATC ranges on APG during a helicopter tour. Following the overflight, Rutherford experienced driving 4.5 miles around the Automotive Technology Evaluation Facility in a Mine-Resistant Ambush Protected Vehicle All-Terrain Vehicle, known as M-ATV.

As a token of ATC's appreciation for Rutherford's visit, Bodrick presented him with a framed photo of Rutherford standing in front of the M-ATV.

MakerSpace can accelerate projects, maximize budgets

Continued from Page B1

instruction on how to use the 3D printer that is best suited for the item to be printed.

The attendees were impressed.

"One could definitely use this capability for anything in the lab requiring a custom fit, especially when commercial off-the-shelf supplies won't do," said Kelley Betts, a Biotechnology branch scientist in ECBC's Biosciences Division. "It would be especially good for producing custom sampling consumables that might need to be disposed of after use due to contamination."

STEM students can also benefit from 3D printing.

"I've never seen technology like this before," said Kelsey Person, an ECBC summer intern and student at Baltimore's Eastern Technical High School. "I want to be an engineer, and I can see using 3D printing to make prototypes of my ideas."

This technology has already proven itself to Joe Domanico, an ECBC chemical engineer.

"I designed a new kind of smoke grenade shaped like a whiffle ball, hollow with lots of perforations on the surface so that it would release smoke without fragmenting. It had to be made in one piece to keep it from splitting upon ignition of the smoke material. No commercial manufacturer could do this, so I turned to ECBC's 3D printing and they made me exactly what I needed,"he said.

Courtesy photo

Edgewood Chemical Biological Center employees inspect the state-of-the-art equipment available for use by ECBC personnel at the MakerSpace open house held on July 20. The MakerSpace workshop offers users seven different types of 3D printers and one laser cutter, plus the guidance of ECBC's team of 3D printing experts.

Including 3D printing in a project offers other advantages.

"Using MakerSpace can accelerate a project schedule and maximize its budget by allowing users to print prototype ideas without committing to formal outside prototype production," said Brad Ruprecht, an engineering technician and model maker who has been working with additive manufacturing and 3D printing for 13 years. "In the process, the product developer gets much more deeply engaged in the product because he or she is making the variations to the design directly, seeing exactly how even the smallest design changes help or hurt its function."

Guidance from 3D printing experts is a big part of what MakerSpace offers.

"We will listen to what the researcher or designer wants to do, point them to the right machine and provide any further instruction or guidance they might need," said Sabrina Rawlings Seiple, a chemical engineer on the 3D printing team. "Ultimately, we want to give people the freedom to innovate and invent as they learn the full capabilities and limitations of the printer they select."

"For example the Fused Deposition Modeling Printer uses thermo-plastic, like the material legos are made of, and is especially good for printing something that needs to be strong and will be exposed to high temperature such as the custom bracket," added Ruprecht "The Stereolithography machine uses an acrylic-based resin and prints items that are close to plastic but more brittle. It is especially good for printing small, intricate parts. There is also a laser cutter that can cut out precise shapes from sheets of plywood, rubber or plastic. It will also etch metal."

MakerSpace is being championed from the highest level of the organization.

"This is a terrific initiative for the center," said ECBC Director Dr. Joseph Corriveau. "The collaboration between researchers from across the center will encourage new synergies and stimulate a lot of creative thinking."

The team foresees a time in the future when MakerSpace will have contributed to every important product design across the center by allowing additive manufacturing technology to be a new tool in everyone's toolbox.

Did You Know ?

Frank A. Erickson was an aviation pioneer who led the Coast Guard's acquisition and development of rotary-wing aircraft.

Erickson was instrumental in convincing the armed services of the U.S. and Great Britain about the helicopter's potential, particularly for search and rescue and combat operations. He risked his career in openly supporting what was then an untried and unproven technology. Erickson first earned his wings in 1935 and made his first open-ocean rescue the following year while assigned to Air Station Miami. He piloted amphibian aircraft attached to three of the newly commissioned 327-foot cutters in an experiment that tested combined aircraft-cutter operations. He was then ordered to the Sikorsky Aircraft Company plant at Bridgeport, Connecticut, to train in the new helicopters that would form the first Coast Guard Helicopter Detachment. Designated a Coast Guard Helicopter Pilot No. 1, Erickson instructed, trained and organized pilot participants in November 1943 evaluation trials to ascertain the feasibility of helicopter flight operations aboard ships at sea. He trained 102 helicopter pilots and 225 mechanics, including personnel from the Army Air Force, Navy, Coast Guard and the British Army, Royal Air Force and Navy. On Jan. 3, 1944, Erickson flew the first ever rescue flight by helicopter when he piloted a Sikorsky HNS-1, carrying two cases of blood plasma, from New York City to Sandy Hook, New Jersey, during a violent storm, for Navy crewmen from the destroyer USS Turner, which had exploded and burned off New York Harbor. He developed equipment such as the power hoist, rescue slings and baskets, floats that permitted helicopters to land on water and techniques like landing and taking off from vessels at sea and hovering in all weather and wind conditions. These advances furthered the utility of the helicopter, leading to its acceptance and use around the globe. Erickson's impact on the development of the helicopter in all its uses cannot be overstated.

Courtesy photo

USCG Cmdr. Frank A. Erickson and Dr. Igor Sikorsky, in the Sikorsky HNS-1 "Hoverfly" helicopter in 1944.

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

Source(s): www.wikipedia.org; www.uscg.mil/history