



APG NEWS

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

www.TeamAPG.com

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Vol. 60, No. 43

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YOUTH

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SERVICE

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Honoring Gold Star Mothers and Families



U.S. ARMY PHOTO BY YVONNE JOHNSON, APG NEWS

From left, Maryland Congressman C.A. Dutch Ruppersberger; Janice Chance, president of the Maryland Chapter Gold Star Mothers; Lt. Gen. Robert S. Ferrell, chief information officer, Army G-6; and Edward St. John, chairman of St. John Properties, admire the Gold Star Mothers sculpture during its unveiling ceremony near the Fallen Star sculpture in the GATE Office & Technology Park on APG North (Aberdeen) Oct. 25, 2016.

Numerous state and local officials, as well as Gold Star mothers and families from around the state attended the event, which was hosted by St. John Properties. Maryland painter and sculptor Will Helmsley designed and created both sculptures.

Read about how one Maryland Gold Star Mother honors her son's memory on Page 6.

newsbrief

APG standardizes street names, addresses

By AMANDA ROMINIECKI
APG News

In order for Aberdeen Proving Ground to meet both mailing and emergency services mandates, Team APG residents, Soldiers and employees can expect their mailing address to change sometime between January and June 2017.

According to the garrison's Directorate of Public Works, these changes will standardize addresses across the installation, making it easier for emergency service personnel to locate individuals in a time of need, and for mail to make its way to the intended destination faster.

In a complicated process that required the Installation to follow an address numbering grid established by the U.S. Postal Service (USPS) and 911 Emergency Services street naming mandates, approximately 73 street names will change, 63 new street names will be added and nearly every mailing address on the installation will change in a phased process during Fiscal Year 2017. The USPS address numbering grid will change the building's address number even if the street name stays the same.

Revisions to street names are required to eliminate duplicate street names within the Harford County 911 system which, if not corrected, could result in emergency services vehicles being sent to the wrong location. The new and revised street names,

See **ADDRESSES**, page 7

Old and new applaud Ruggles



U.S. ARMY PHOTO BY YVONNE JOHNSON, APG NEWS

Fred Mitchell shares golfing memories before the start of the 50th Anniversary Golf Tournament at Ruggles Golf Course Oct. 19. Mitchell started playing golf at the former Plump Point golf course near Top of the Bay in 1952.

Ruggles tournament marks 50 years of golfing at APG

By YVONNE JOHNSON
APG News

Long-time members and relative newcomers to Aberdeen Proving Ground shared camaraderie and memories during the 50th Anniversary Tournament for Ruggles Golf Course Wednesday, Oct. 19.

Designed by renowned golf architect Edmond B. Ault, Ruggles is managed by the Aberdeen Proving Ground Directorate of Family and Morale, Welfare and Recreation, or DFMWR.

"Old timers" on hand included Fred Mitchell, who learned to play at the former Plumb Point 9-hole course in 1952 when he was recovering from a temporary paralysis.

"They [the doctors] suggested I start walking as much as I could so I started playing golf," he said. "And I'm still playing."

Retired Col. Mike Lee said he started playing when his father was a command sergeant major stationed at Edgewood.

And relative newcomer Benjamin Polanco-Ramos has been a member since base realignment and closure brought him to APG in 2009. A civilian with the CECOM SEC, Polanco-Ramos said he is proud to play the courses provided for Soldiers, civilians and retirees.

"They put a lot of money into this course as a service to people who served the nation," he said. "I came out to be a part of the celebration. This course is better than it was in 2009 and that means management is keeping up the tradition."

The head greens keeper for Ruggles agreed. Mark Burk has been maintaining the course for 37 years and he's been head greens keeper for 20 of those years. A native of York County, Pennsylvania, Burk came to APG as a teenager after his father, who worked for DPW, got him See **RUGGLES**, page 7

Town hall talks latest updates at APG

Preregistration for Automated Installation Entry underway

By AMANDA ROMINIECKI
APG News

The registration and implementation process for the new Automated Installation Entry system at APG's access control points garnered the most discussion amongst attendees during the most recent garrison town hall, Oct. 20.

Acting APG Director of Emergency Services Rick DeOliveira explained that the new system - when fully implemented - will provide an additional layer of security at the proving ground. Known as AIE, the system requires all individuals seeking to gain access to the installation to swipe their ID card through a scanner at each gate. The system then cross-checks that individual's name against a database to confirm their identity and the validity of their ID card.

AIE has already been implemented at a

handful of other DOD installations nationwide, including Fort George G. Meade, Maryland, and Fort Belvoir, Virginia.

With construction of the system's scanning stations complete, the next step in the implementation process is getting installation personnel registered, DeOliveira said.

"We are about to enter a trial period over the next several months," he said, explaining that APG will take a phased approach to registering installation personnel into the system and implementing full use of AIE.

The first time an individual uses AIE, their ID card must be registered. This can take up to 30 seconds, per individual. Once registered, a quick scan of their ID is all that is required for authorized personnel seeking access to APG.

In an effort to avoid delays and traffic back-ups at the access control points during the registration phase, rapid registration (or pre-registration) for AIE began Oct. 24. Rapid registration, utilizing one gate at each access control point to scan ID cards into the AIE system, will continue through Oct. 28.

Security personnel have also planned pop-up rapid registration opportunities at high traffic locations on post like the C4ISR campus, Exchange and Express, and at several larger-scale events in the coming week, reducing the burden of registration at the gates.

DeOliveira encouraged personnel to take advantage of rapid registration opportunities in order to reduce delays at the access control points once registration is required at all gates in the coming months.

Full implementation of the AIE system is expected at the beginning of next year.

Garrison deputy

Additional topics of discussion at the town hall included a welcome from the new deputy to the garrison commander, Mitch Jones.

Jones said it was "a great pleasure to be at APG," after coming from his last duty station at San Antonio, Texas at IMCOM headquarters. See **TOWN HALL**, page 7

online

www.TeamAPG.com/APGNews

facebook.com/APGMD

twitter.com/USAGAPG

flickr.com/photos/usagapg/

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

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STREET TALK

What is your favorite Halloween costume ever?

A cat, because that is my favorite animal. This year my sisters and I are dressing up as butterflies and my daddy is dressing up as a flower.



Corie Clark
8

One year my mom made a Bugs Bunny mask and ears, I will never forget that. I thought I had the most creative costume in my trick-or-treating group.



Aaron Culver
AEC

I was Dracula just about every year as a child. I just put on a black top and some fangs, so it was an easy costume.



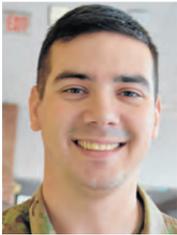
Owen Fowlkes
Contractor

In 2010 I wore a nun costume to a Halloween run at Camp Casey in South Korea. It was funny, a lot of people got a kick out of it.



Maj. Wayne Gendron
PEO IEW&S

Two years ago I dressed as Bugs Bunny from [the movie] "Space Jam." I wore rabbit ears and a basketball uniform. It was an easy costume to put together.



1st Lt. Alec Martin
A Battery, 3rd ADA

Staying safe and healthy on Halloween

CENTERS FOR DISEASE CONTROL AND PREVENTION

Fall celebrations like Halloween and Harvest Day are fun times for children, who can dress up in costumes, enjoy parties, and eat yummy treats. These celebrations also provide a chance to give out healthy snacks, get physical activity, and focus on safety.

Check out these tips to help make sure trick-or-treaters have a S-A-F-E H-A-L-L-O-W-E-E-N.

- S – Swords, knives and other costume accessories should be short, soft and flexible to avoid injury.
- A – Avoid trick-or-treating alone. Walk in groups or with a trusted adult.
- F – Fasten reflective tape to costumes and bags to help drivers see you.
- E – Examine all treats for choking hazards or signs of tampering before eating them. Limit the amount of treats you eat – try spacing them out over the coming weeks.
- H – Hold a flashlight while trick-or-treating to help you see and others see you. Walk and don't run from house to house.
- A – Always test make-up in a small area first. Remove makeup before bedtime to prevent possible skin or eye irritation.
- L – Look both ways before crossing the street. Use crosswalks wherever possible.
- L – Lower your risk for serious eye injury by not wearing decorative contact lenses.
- O – Only walk on sidewalks whenever possible, or on the far edge of the road facing traffic.
- W – Wear well-fitting masks, costumes and shoes to avoid blocked vision, trips and falls.
- E – Eat only factory-wrapped treats. Avoid eating homemade treats made by strangers.
- E – Enter homes only if you're with a trusted adult. Only visit well-lit houses. Never accept rides from strangers.
- N – Never walk near lit candles or

TRICK OR TREAT!

APG Housing Areas

Monday, Oct. 31
6 to 8 p.m.

Stay safe on Halloween!

- Youth should be supervised by an adult.
- Stick to the sidewalks and use caution when crossing the street.
- Carry a flashlight.
- Add reflective tape to the child's costume or bag.

luminaries. Be sure to wear flame-resistance costumes.

If you plan to host a party, follow these tips to help make the festivities fun and safe for everyone:

- Provide healthier treats for trick-or-treaters such as low-calorie treats and drinks. For guests, offer a variety of fruits and vegetables.
- Use party games and trick-or-treat time as an opportunity for kids to get their daily dose of 60 minutes of physical activity.
- Be sure walking areas and stairs are well-lit and free of obstacles that could cause someone to fall.

•Keep candle-lit Jack O' Lanterns and luminaries away from doorsteps, walkways, landings, and curtains. Place them on sturdy tables, keep them out of the reach of pets and small children, and never leave them unattended.

•Remind drivers to watch out for trick-or-treaters and to drive safely.

More Halloween safety tips can be found online from the U.S. Food and Drug Administration, www.fda.gov; the U.S. Consumer Product Safety Commission, www.cpsc.gov; the American Academy of Pediatrics, www.aap.org; or the National Safety Council, www.nsc.org.

Impact Aid survey letters to be distributed Oct. 28

BY STACIE UMBARGER
APG School Liaison Officer

Harford County Public Schools will distribute Impact Aid Survey letters to all students on Friday, Oct. 28. Each year the DOD provides funding, through Impact Aid, to the school districts to assist in providing educational programs for the children of Soldiers and DOD civilians.

In a letter to the workforce, APG Garrison Commander Col. James E. Davis urged all Team APG families – military and civilian – to complete the survey, as the amount of Impact Aid schools receive is directly related to the number of children identified by survey responses.

"This is a great opportunity to personally and positively contribute to the education of our children," Davis wrote.

For more information, contact Stacie Umbarger, CYSS school liaison officer, at 410-278-2857 or stacie.e.umbarger.naf@mail.mil.

BY THE NUMB#RS

“Nothing on Earth so beautiful as the final haul on Halloween night” - Steve Almond

Watch out! Soon there will be ghosts, zombies, Trumps, Clintons, and probably a lot of Elsa's roaming the streets on Oct. 31 as children and adults alike come out to celebrate Halloween. So make sure that bowl is filled with candy, the Jack O' Lantern is carved, and you read the facts below.

\$6.9 million

Annual Halloween consumer spending last year.

4.3 million

Adults dressed as a witch in 2015.

\$74.34

Average amount Americans will spend on costumes, decorations, and candy.

64

Percentage of Americans who celebrate Halloween.

11

Years that a “princess” has been the top children's Halloween costume.

By Lauren Finnegan, APG News
Sources:
www.statisticbrain.com; www.nrf.com

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

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Clinic custom-fits bikes for APG youth

Partnership results in adaptive bikes for EFMP children

By **LAUREN FINNEGAN**
APG News

BEL AIR, Md. - Dakesha Nicols stood teary-eyed in the John Archer School gym, Oct. 18, as she watched her 10-year-old daughter ride circles around her on a bicycle. Before that day, Nicols said she wasn't certain she'd ever see her daughter accomplish this childhood rite of passage that others take for granted.

With a bike specially made to fit her needs, Nicols said her daughter Da'Nae, a member of APG's Exceptional Family Member Program, will now be able to ride around the neighborhood with her cousins instead of watching from the sidelines.

Da'Nae Nicols was one of 11 children in the Army Community Service Program - which provides support to Soldiers with special needs family members - fitted for custom bicycles to be delivered in January, at no cost to the families.

The bikes were made possible through a partnership between V-LINC, a nonprofit organization that creates solutions to improve the quality of life for people with disabilities, and the Aberdeen Proving Ground program.

EFMP Manager Nancy Goucher said she contacted V-LINC about organizing the bike clinic for APG families because she knew what the opportunity would mean for the children.

"For most of these children, it is the first time they have ever ridden a bike," she said. "For... our military families, this is very important because riding bikes is a way many children get acclimated into new communities and it is a way to make friends."

"I'm at a loss for words, because she has a bike but she can't ride it," Nichols added while watching her daughter ride. "So, a bike that she can actually ride is going to be great; it's going to be a newfound joy for her."

Volunteer engineers and physical therapists measured and assessed the children as they rode on sample adaptive bikes to determine which unique parts each bike would need.

Alex Cross, a physical therapist assistant with the Drayer Physical Therapy Institute, said she volunteered to help, "diagnose weakness and physical deficits to try to figure out what pieces of the bike will help [the children] be independent when they use it."

Paul Oxenberg, a retired engineer, said he learned about V-LINC through his friend and fellow volunteer, John Haug.

"The engineering expertise is just prob-



U.S. ARMY PHOTO BY LAUREN FINNEGAN, APG NEWS

(From left) Physical Therapy Intern Kelsey Rogers; Maryanne Crawford of Epic Developmental Services; Alex Cross of the Drayer Physical Therapy Institute; Jennifer Cupp, and retired Engineer John Haug, help Isabelle Cupp onto an adaptive bike at the John Archer School Tuesday, Oct. 18, 2016. Isabelle Cupp and several other special needs youth were fitted for customized bikes they will receive in January through a partnership between V-LINC and the APG Exceptional Family Member Program.

lem solving and applying that to something that's comfortable and safe... for the kids to ride," he said.

Haug added that adaptive bikes can cost anywhere from \$2,000 to \$3,000.

"[The bikes] are designed to fit the needs of many different children," he said, "where as the bikes we are going to build for each of these clients will be their own and won't need to be reconfigured."

The types of handlebars, supports, harnesses, wheels, and even the color of the bikes will be tailored to the children, he added.

Goucher said the ordered parts will be brought to the APG (North) recreation center, where V-LINC volunteers and APG Soldiers will assemble the bikes.

Jennifer Cupp, a military spouse, whose daughter, Isabelle, was fitted during the

clinic, said she was excited for what the future holds for her daughter.

"She's never been able to peddle this long before," she said. "It's going to help her endurance, it's going to help her strengthening, and it's going to help her independence outside. It's amazing."

The V-LINC/EFMP partnership to fund the bikes was made possible by a grant from the Drescher Foundation.

Harford County honors APG civilian's 'ripple effect'

Awardee calls mentoring, tutoring "a calling"

By RACHEL PONDER
APG News

An electronics engineer with the U.S. Army Materiel Systems Analysis Activity is so dedicated to helping young people succeed that he volunteers as a tutor five days a week.

For his service to the community, Henderson "Mitch" Mitchell was selected out of 27 other nominees to receive the "Ripple Effect Award" at the 30th Annual Harford's Most Beautiful People Awards, a ceremony hosted by Harford County Executive Barry Glassman and the Harford County Department of Community Services.

According to Mitchell, he doesn't volunteer for awards or praise. Instead, his goal is to inspire others.

"There is an absolute, phenomenal need for tutors," he said. "We can help change the world."

Claudia Sconion, a retired Edgewood High School teacher nominated Mitchell for the award. In 1992, Sconion helped create the Kenneth V. Hilton Mentorship Program at EHS to provide African-American males with positive role models. After forming the program, a group of AMSAA civilians, including Mitchell, volunteered to mentor the students. He has served in the program for more than 20 years, preparing students for the future, Sconion said.

"The students really respect and admire him; they know he wants the best for them," she added. "He is like a father or a brother to the students, teaching them critical life skills like how to prepare for an interview, and how to carry themselves with confidence."

She called his selection for the award, "awesome."

"He has been a blessing to so many kids," she said. "He has gone above and beyond for so many years."

Sharing talents

Mitchell also volunteers as a math tutor for students in kindergarten through 12th grade at the Edgewood unit of the Boys & Girls Clubs of Harford County and the Windsor Valley Community Center, also located in Edgewood.

"It's my passion," Mitchell said of tutoring. "It's my calling, and my talent, you might say."

He said he challenges children to focus on their academics, to prepare for the future, though he acknowledges that life won't always be easy.

"I tell them, you have no idea what life is going to offer you," he said. "It [life] will



PHOTO BY RACHEL PONDER, APG NEWS

Henderson "Mitch" Mitchell, an electronics engineer with the U.S. Army Materiel Systems Analysis Activity assists Adriana Pusey, 14, with a math word problem during a tutoring session at the Edgewood Boys and Girls Club. Mitchell recently received the "Ripple Effect Award" at the 30th Annual Harford's Most Beautiful People Awards ceremony for his dedication to service.

throw you a curveball at any moment."

Mitchell also coaches life skills, like public speaking and interviewing techniques.

"Confidence means a lot," he said.

A native of North Carolina, Mitchell credits his parents for instilling in him a strong work ethic at a young age. During summer breaks, he worked on a farm to help his family.

"You see people working hard, you see people helping each other, taking care of their neighbors," Mitchell said of his upbringing.

He said he hopes to pass on the value of hard work by encouraging students to do their best.

"I tell them, even if you aren't coming to the Boys and Girls Club, you still need to do

the work," he said.

Mitchell has also tutored at the Harford County Public Library and the Freestate ChalleNGe Academy on Aberdeen Proving Ground.

AMSAA leadership praises Mitchell

AMSAA Team Leader, David Payne, congratulated Mitchell for receiving the Ripple Effect Award.

"This award represents what we've known for a long time: that Mitch always works to help others," Payne said. "His devotion to the youth, in trying to help their path to success be a little easier, is remarkable. He's an outstanding role model

for us all."

AMSAA director James Amato, a member of the Senior Executive Service, said Mitchell has selflessly served the community for more than two decades.

"He, like so many of the AMSAA family, understands how important it is to share one's talents and donate one's time to improve the lives of those around us," Amato said.

"I am extremely proud of Mitch for earning this award, though he will be the first to tell you that his reward is spending time with, listening to, coaching and mentoring the young men and women who are our future. There are so many stories like Mitch's here at AMSAA. That's one of the things that makes AMSAA so great. It's an honor to be part of this team."



ALL THINGS MARYLAND

An APG News original series exploring the history, cultural oddities, well-documented and lesser-known points of interest, and travel destinations that call the Old Line State home.



PHOTOS BY E. CLARE CONGER BARONE, ANNAPOLIS PHOTOGRAPHY STUDIO

The Maryland State House is reportedly haunted by the ghost of Thomas Dance who fell to his death while plastering the dome in 1793.

Walking Ghost Tour of Historic Annapolis

Tour highlights Annapolis ghost legends and lore

By **RACHEL PONDER**
APG News

Halloween is arguably the best time to take a spooky ghost tour in one of America's oldest cities, Annapolis, Maryland.

Mike Carter, the founder of Annapolis Tours & Crawls, and the co-author of "Haunted Annapolis: Ghosts of the Capital City" said Annapolis has an interesting and unique history with ghost legends and lore associated with numerous Annapolis landmarks.

"There are so many ghost stories, I could probably write a second book on Annapolis," he said.

According to Carter, the stories told on the tours are based on careful research and investigation and the tour guides are knowledgeable, skilled storytellers who "do not use scripts."

The 90-minute "Walking Ghost Tour of Historic Annapolis" occurs in the historic district of Annapolis, starting at the Maryland Inn, built in 1776. According to local legend, this building has more paranormal activity than any other building in Annapolis and it is the oldest continuously operated hotel in the nation.

Carter's book states that tour guides will recount the story of Thomas Dance, who fell to his death in 1793 while plastering the dome of the Maryland State House. Visitors and state house employees have reportedly heard footsteps in empty hallways, and during walking tours, several people have claimed to see a figure dressed in historic garb on the balcony of the dome, Carter said.

Another stop on the tour is the graveyard of St. Anne's Episcopal Church, the first church in Annapolis, founded in 1692. The ghost of gravedigger Joseph Simmons, nicknamed "Joe Morgue," is said to haunt this historic church. During tours, people have said they heard a man's voice whispering their names, or saw street lights flicker on and off, Carter said. Others said they have seen a young woman in a white or light-colored dress from the War of 1812 era.

"Paranormal researchers have obtained audio recordings [in the church] in which a variety of voices and accents can be heard, some even appearing to respond to questions

posed by the researcher," according to "Haunted Annapolis."

Tour guides also share eerie tales of ghost sightings in well-known businesses like the Rams Head Tavern and Reynolds Tavern, the oldest tavern in Annapolis. Originally established in 1747, Reynolds Tavern is said to be haunted by Mary Reynolds, the third wife of the owner William Reynolds.

"Staff members tell tales of finding the furniture set askew when they leave a room for barely a moment or glasses or plates breaking in the presence of certain employees that Mary appears to dislike," Carter wrote.

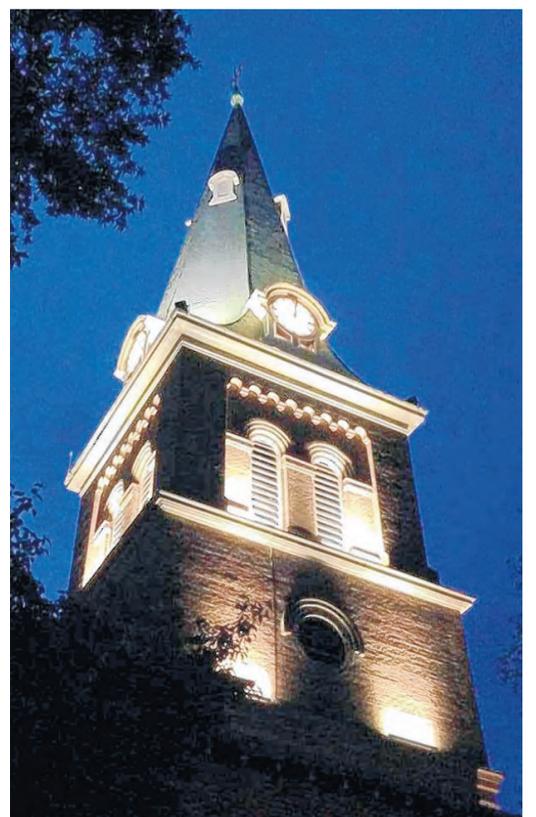
Holiday tours

The Annapolis Tours & Crawls offers a 90-minute "Ghosts of Christmas Past Tour," which features holiday ghost stories. During this tour, visitors will hear stories about the Government House, also known as the Governor's Mansion, and view several historic and haunted buildings decorated for the holidays.

"It is very popular with families," Carter said. "We are actually very busy around Thanksgiving and Christmas, because people have family and friends in town for the holidays and they are searching for something to do."

About the Walking Ghost Tour of Historic Annapolis

The Walking Ghost Tour of Historic Annapolis departs from the front porch of the Maryland Inn, at 16 Church Circle, in downtown Annapolis. Tours are offered year-round. Children 13 and under must be chaperoned by someone age 17 or older. A discount is available for active-duty service members. The "Ghosts of Christmas Past Tour" is held 8 p.m., Friday and Saturday. Comfortable shoes are recommended for all tours. For specific details on tour dates, or to purchase tickets visit <http://www.tour-sandcrawls.com/tours/ghost-tours>.



St. Anne's Episcopal Church, the oldest church in Annapolis, is said to be haunted by gravedigger Joseph Simmons, nicknamed "Joe Morgue."

Gold Star Mother honors son's memory

Long-time Towson University employee aids student veterans

By YVONNE JOHNSON
APG News

Tracy Miller grew up in Baltimore, leaving the area only when she went to college at the University of Wisconsin, and returning after graduation. It was the 1960s and the world was before her.

"Back then I thought maybe I'd be a teacher," she said. "In the 60s the idea was you get a little education and whatever job you get they'll train you."

After college, Miller pursued several vocations, but none stuck until she saw a want ad for an assistant to the president of Towson University.

"It only required very good oral and written communication skill and management experience," she recalled.

Miller worked hard at her job at Towson and gradually advanced, eventually holding the position of assistant vice president before moving on to student services.

Along the way, she married a man named Ziolkowski, and had two sons, Nicholas and Peter. With her career established, she had every reason to think she'd live to a ripe old age as her boys grew up and gave her grandchildren.

It was not to be. Her youngest son, Nick, a young, energetic U.S. Marine Corps sniper, was killed in the battle for Fallujah, Iraq while supporting Operation Iraqi Freedom in 2004. With an ominous ring of the doorbell on a quiet Sunday evening, her life changed forever.

"I was on the computer in the living room working on a writer's conference when the doorbell rang," she said. "When I looked through the peephole and saw Marines in dress blue uniforms, I knew."

'He wanted to save the world'

Miller wasn't sure why Nick joined the Marines. She only knew he decided to long before he graduated high school.

"By the seventh grade, he was really interested in the Young Marines," Miller said, "though he didn't care for the drilling. I was relieved because I didn't want him to go into the military."

But Nick's mind was made up, she added. He got into physical fitness, eventually running up to seven miles a day. In his junior year of high school he participated in a Navy Seal training course and



COURTESY PHOTO

Tracy Miller, right, visits her son, USMC Cpl. Nick Ziolkowski at his barracks.

finished in the top 10 percent.

She recalled asking him why he was so determined to enter the military.

"I told him he was such a thoughtful person and so well liked by everyone. He couldn't hurt people. He told me, 'I'm not doing this to hurt people.'"

"He told me to look around at the birds and trees and all the other beautiful things. He said he wanted to make sure all of this was still around for his children. He wanted to make a difference. He wanted to save the world."

A Department of Defense press release announced the death of Nicholas L.

Ziolkowski, age 22, on Nov. 14, 2004. He was buried at Arlington National Cemetery, Nov. 24, 2004, the day before Thanksgiving.

Totally engrossed with funeral arrangements and dozens of well-meaning family and friends, Miller tried to put her grief on hold. She returned to work the Monday after Thanksgiving but things were off kilter.

"I did what absolutely had to be done but I didn't do it correctly," she said, recalling that she had problems with routine paperwork and applications.

"I was in a fog," she said. "But I knew

what I needed to do. I wanted to connect [to Nick] as much as I could. I wanted to be as close to the life he had as I could get. I wanted to try to make the world a better place like he did when he joined the Marines. I just didn't know how."

It wasn't long before he found a way.

In 2006, Miller ran for the Maryland House of Delegates on a platform calling for environmental clean-up, affordable health care, stem cell research, education reform, and tax-free veterans pensions. Miller didn't win but she's proud that she did well at the polls.

"I was doing it for Nick," she said. "Those were the issues he cared about. They were important to him and to me."

The Veterans Center at Towson University

Today, after 38 years at Towson, Miller is the director of retention and an English professor.

She said she found the best way to honor her son's memory after one of his buddies, who was accepted to Towson, shared with her that he was most comfortable in classes with other veterans.

She compiled a list of students using the GI Bill and got a representative from the Veterans Administration to visit the campus to explain their benefits. Nick's buddy and others then formed a veterans group. They acquired a place on campus to have meetings and were supported by faculty members including the president and vice president. Towson University became the first local school with a 900 square-foot Veterans Center.

She stays as involved as she can with veterans affairs and also volunteers with the ROTC programs at Loyola University and Goucher College.

Miller calls her work with the student veterans "therapeutic." A member of the Maryland Gold Star Mothers, she said staying busy keeps her son close.

"We all want to make sure our children are remembered," she said. "And through volunteering we gain the need to help each other as well as our service members and veterans. I think what holds us together is we share the one thing nobody wants to experience."

Besides her family, Miller said her greatest comfort is knowing that Nick was doing what he loved.

"It doesn't bother me to talk about Nick. It keeps him part of my present," Miller said. "The last time we were together, he made a point of telling me not to worry about him. He said he was happy and where he wanted to be. I never saw him again."

Town hall reminds workforce to be resilient

TOWN HALL, From page 1

Since arriving in the late summer, he said he has already visited several offices within the garrison, and plans to visit the remaining directorates within the next 90 days.

"I've seen some great things, but I've also seen some conflicts. I'm all about moving the ball forward."

Resiliency

APG Chief of Army Community Service Jennifer Eichner reminded garrison employees of the importance of resiliency and urged personnel not to give into human nature's tendency to put greater emphasis on negative experiences over positive ones.

She said ACS has a variety of tools and services available to help members of Team APG get out of the negative mindset, set goals and recognize achievements.

"When that negativity bias gets really strong, it devastates our ability to deal with challenging situations," Eichner said. "ACS can help you get out of the worst-case-scenario [mindset] and instead be in the most-likely [mindset]."

APG South

APG South has a new garrison manager, tasked with addressed issues specific to the Edgewood Area of APG. John Kearney said he looks forward to working with the tight-knit community on APG South.

"There has been some positive momentum down on Edgewood," Kearney said. "It's my job to keep that momentum going."

APG Centennial

Garrison Public Affairs Specialist Heath-



U.S. ARMY PHOTO BY AMANDA ROMINECKI, APG NEWS

The new Deputy to the Garrison Commander Mitch Jones addresses his first Town Hall meeting at the APG North (Aberdeen) recreation center Thursday, Oct. 20, 2016.

er Roelker provided a teaser for upcoming events tied to APG's 100th anniversary in 2017. The bulk of the events will be coincide with Armed Forces Week in May 2017 and APG's birthday in October 2017.

She encouraged attendees to volunteer for events on post and in the local community

"A great deal of you have worked at APG for some time," Roelker said to attendees. "Our history is in this room. Share your APG story."

Upcoming Events

APG MWR Director Mike Lupacchino gave a run-down of upcoming events on APG North and APG South, as well as updates to MWR programs.

He said Team APG has an opportunity to help military families in need this holiday season; the Angel Tree program is set to begin Nov. 15. Trees will be placed at the Exchange, recreation centers and gyms featuring card ornaments listing gift ideas for families needing assistance during the holidays.

Lupacchino also said the saunas in the locker rooms at the gym on APG North are set for completion by early November.

A full list of upcoming MWR events and programs can be found at www.apgmwr.com.

Questions & answers

A brief question-and-answer session touched on audience questions related to AIE registration procedures; base realignment and closure; building demolition; and the number of authorized positions within the APG garrison by FY19.

DeOliveira told attendees a concerted effort will be made to reduce the impact on traffic during AIE implementation. Jones reassured personnel that there has been no discussion base realignment and closure related to APG at this point in time. He also said that the situation surrounding the number of garrison positions at APG is fluid due to retirements, management-directed reassignments and other factors.

From the commander

APG Garrison Commander Col. James E. Davis closed out the town hall, thanking garrison personnel for all that they do at APG. He also placed special focus on resiliency, putting it in the context of what he called the "four sees." He encouraged attendees to (1) see themselves, the garrison and their directorate, (2) see the issues at hand, (3) see the environment, support system and available resources and (4) see the final outcome, goals and the steps needed to accomplish those goals.

"Remember to smile," Davis said, concluding the town hall, "and look out for each other."

Ruggles staff recalls opening course to public

RUGGLES, From page 1

a summer job on the golf course.

"It started out as a summer job that turned into a habit," Burk chuckled. "When a full-time position opened, I thought I'd stay on a couple of years, and then a couple of years more ... and I just never left."

Burk prides himself on his expertise with every aspect of greens maintenance.

"I started at the bottom so I know how to do every job," he said. "That helps me as a supervisor who's been there. Plus, I can always jump any time extra help is needed."

"I can do anything but give golf lessons," he said with a smile, adding that he only plays "rarely these days."

He's also proud of his crew and is quick to point out the improvements made to the course during renovations six years ago. In addition, two major changes shifted the direction of the facility, he said.

"The first change that stands out was opening [Ruggles] to the public," he said. "It's made a big difference revenue and membership-wise and has really helped since we lost the large military population we had."

He said the second change - the addition of an access road in front of the entrance gate - supported the new policy and made improvements to the facility possible.

"We would never have done those

renovations without it," he said.

For Burk, being outdoors with nature is the best part of his job.

"This is my office," he said. "Every day I see deer, squirrels, rabbits, you name it. I thrive in the outdoors."

As much as he loves his work Burk said he plans to retire in about five years.

"I've met some interesting people - all kinds of golfers and a lot of great veterans," he said. "I love hearing their stories and I think it's great that we can provide this kind of facility for them and their children."

Ruggles Lead PGA Professional Dave Correll, who thanked the players and led

the awards presentations afterward, said the camaraderie in the Ruggles family not only transcends, but is passed on from generation to generation.

"This has become a second home to all of us," he said.

First-place in the tournament went to a family of players. Tom Vincenti of the Directorate of Public Works led the team with his brothers, Casey Vincenti of Morale, Welfare and Recreation; Anthony Vincenti, of Perry Point VA Medical Center; their sister Sarah Vincenti and her fiancé, Pete Brenza. They received commemorative certificates and 50th anniversary golf balls.

Addresses, street name changes to be phased in by June 2017

ADDRESSES, From page 1

suggested by DPW personnel and decided upon by garrison leadership, pay tribute to 100 years of mission-related activity at APG and the region's history.

New street signs

David Spinazzola, DPW Sign Shop fabricator, has been working diligently to fabricate the new street signs that will be installed by a contractor starting in early November 2016. Signs in the housing areas will have black backgrounds with white lettering, maintaining the more traditional aesthetic in those neighborhoods, while all other signs on the installation will have green backgrounds with white lettering. The project will replace hundreds of signs and poles,

The process has been phased and planned to following these steps:

1. Current street signage will be mounted on temporary posts.
2. New posts and street signage will be installed and covered with opaque cover material to mask new street signage information.
3. On-post residents will be notified, at the appropriate time, to start change-of-address process.
4. New street signs will be unveiled in phases and the old street signage will be removed.

Phased approach

According to DPW Engineering Branch Project Manager Stevan Band, DPW Engineering & Construction Division, DPW

will have the flexibility to control when the new street names will be unveiled thereby controlling when the new addresses will become official.

He said the goal of the DPW is to have overall control over the design, engineering, construction and unveiling of the new street signage to make sure the APG community is informed and are prepared for the new address changes that are forthcoming.

Construction work and the unveiling of the new street signage and associated address changes will be performed in the following order:

1. APG South (Edgewood) housing areas
2. APG North (Aberdeen) housing areas
3. APG South cantonment areas
4. APG North cantonment areas
5. APG North and South range areas

For updates and info

DPW is working closely with Corvias Military Living at APG and USPS to communicate when residents should fill out change of address cards for their new official mailing address. For APG employees receiving official mail, updates are expected to be communicated through operations channels.

Questions about the street address and signage project can contact Stevan Band at 410-306-1158 or email stevan.s.band.civ@mail.mil. Updates will be published in the APG News, and posted to the APG Facebook page www.facebook.com/APGMd as they become available.

WORD OF THE WEEK

Obstreperous

Pronounced: uh b-STREP-er-uh s

Part of Speech: Adjective

Definitions:

Someone who is noisy and hard to control. Stubbornly defiant; disobedient; boisterous; resistant to authority or control, whether in a noisy manner or not.

Examples in common use:

The students were so unruly and obstreperous in their support of the defendant, they were barred from attending future court proceedings. Not one to be ignored, he obstreperously interrupted or loud-talked every attempt to calm the situation. Though rowdy and obstreperous at times, when their vitality subsides, the twins nap as peacefully quiet as cherubs floating on a cloud.

By Yvonne Johnson, APG News

Sources: www.yourdictionary.com; www.dictionary.com

ACRONYM OF THE WEEK

NBCCEDP

National Breast & Cervical Cancer Early Detection Program

For more than 20 years, the Centers for Disease Control National Breast and Cervical Cancer Early Detection Program, NBCCEDP, has provided low-income, uninsured, and underserved women access to timely breast and cervical cancer screening and diagnostic services.

Congress passed the Breast and Cervical Cancer Mortality Prevention Act of 1990 which directed the CDC to create the NBCCEDP. The NBCCEDP funds all 50 states, the District of Columbia, 5 U.S. territories, and 11 American Indian/Alaska Native tribes or tribal organizations to provide screening services for breast and cervical cancer. The program helps low-income, uninsured, and underinsured women gain access to breast and cervical cancer screening and diagnostic services. These services include—

- Clinical breast examinations.
- Mammograms.
- Pap tests.
- Pelvic examinations.
- Human papillomavirus (HPV) tests.
- Diagnostic testing if results are abnormal.
- Referrals to treatment.

Sources: www.cdc.gov www.wikipedia.org



MARK YOUR CALENDAR

EVENTS & TOWN HALLS

VA BENEFITS WORKSHOP

OCTOBER 29
American Legion Post 135 in Perryville will host a VA Benefits Workshop 1 to 4 p.m. Cindy Smith, Outreach Assistant Department Service Officer, or ADSO, for the Veterans of Foreign Wars, will conduct the workshop. Veterans seeking information about filing for benefits or those with pending claims are encouraged to attend. For more information, email serviceofficer.vfw5337@gmail.com.

VETERANS DAY THUNDER RIDE

NOVEMBER 9
APG South (Edgewood) Hoadley Road (Rt. 24) gate, 8 a.m. rally. Motorcycle riders are invited to attend a Thunder Ride to place flags at the APG South cemetery and the APG North (Aberdeen) cemetery. Riders must comply with all rules for personal protective equipment on military installations. For more information, contact Sgt. 1st Class Glominio De Leon at 443-307-1240 or glominio.d.deleon.mil@mail.mil.

VETERANS DAY REMEMBRANCE CEREMONY

NOVEMBER 9
APG North (Aberdeen) recreation center, 10 to 11 a.m. Immediately following the Thunder Ride will be a Veterans Day Remembrance Ceremony open to APG Soldiers, families, civilians and veterans. Local Vietnam veteran David Yensan will serve as guest speaker; RDECOM Chief of Staff Col. Ray Compton will host the ceremony. For more information, contact Sgt. 1st Class Glominio De Leon at 443-307-1240 or glominio.d.deleon.mil@mail.mil.

AMERICAN INDIAN HERITAGE MONTH OBSERVANCE

NOVEMBER 17
Mallette Training Facility auditorium, Bldg. 6008. 11 a.m. Theme is "Serving our Nations." Smithsonian Curator Dennis Zotigh will serve as guest speaker. Native American food tasting will follow the presentation.

MEETINGS & CONFERENCES

'STATE OF THE CONGRESSIONAL BUDGET' HOT TOPIC FORUM

NOVEMBER 16
6175 Guardian Gateway; 11:30 a.m. to 1 p.m. Hosted by the Defense Acquisition University. Will be broadcast via VTC in the APG DAU facility. Kate Kaufer, a professional staff member supporting the



U.S. ARMY PHOTO BY YVONNE JOHNSON, APG NEWS

Using fun to fight domestic violence

(From left) Sgt. 1st Class Frank Strother, of the 20th CBRNE Command, relaxes with his wife, Dee, daughter Jordan, 12, and sons Jahllil, 16 and Kahlil, 18, during the third Strike Out Domestic Violence Night at the APG Bowling Center Monday, Oct. 24, 2016.

Family Advocacy Program Manager Antoinetta Saunders-Gauth hosted the three family-focused nights that were also held Oct. 10 and 17, and featured complimentary bowling, pizza, refreshments and goodie bags for participants.

"Domestic violence is such a negative thing," Sanders-Gauth said, "but if you can bring families together in a fun environment, then that's a time when they're not fussing or arguing and it sends the message that maybe they should spend more time out as a family. People can be starving for a sense of togetherness and not even realize it."

Senate Appropriations Committee subcommittee on Defense, will address the congressional enactment process, with a focus on the appropriation process. She will also provide a status on the FY17 appropriation process. This training forum provides 2 Continuous Learning Points for government employees in attendance. To register to attend the forum students must contact Ben Metcalfe at benjamin.metcalfe@dau.mil or 410-272-9471 before Nov. 15.

FY17 GARRISON EEO FACE-TO-FACE TRAINING

DECEMBER 7
Ball Conference Center, 9 to 10:30 a.m. and 1:30 to 3 p.m. Open to all garrison employees. For more information, contact Charles Gilmore at charles.l.gilmore3.civ@mail.mil or 410-278-0130.

EEO/HR FOR IMCOM SUPERVISORS

DECEMBER 8
Bldg. 3147, 8 a.m. to 4:30 p.m. Registration is required for IMCOM supervisors/managers assigned within last 90 days. For more information, contact Charles Gilmore at charles.l.gilmore3.civ@mail.mil or 410-278-0130.

FAMILY & KIDS

SUPERHEROES RUN

OCTOBER 29
Exchange, 9 a.m. Kirk U.S. Army Health Clinic will host a SuperHeroes Run, Walk & Stroll for kids and adults. Kids 2K run/walk will begin at 9 a.m. 5K run will begin at 9:35 a.m. To register, visit <https://www.superheroesrunAPG.eventbrite.com>. For more information, contact Capt. Maritzabel Gonzalez at 410-278-1773.

HALLELUJAH HARVEST

OCTOBER 29
APG South (Edgewood) recreation center; 1 to 3 p.m. Event, sponsored by the APG Chapel, will include food, games, prizes and family fun. Open to entire APG community. Volunteers are also needed. For more information, call Mark Edwards at 410-278-2516.

HEALTH & RESILIENCY

ARMY V. NAVY BLOOD DONOR CHALLENGE

NOVEMBER 3
APG North (Aberdeen) recreation center. 9 a.m. to 2 p.m. Annual Army v. Navy Armed Services Blood Program drive. Make an appointment online at militarydonor.com using sponsor code

APGMD.

HOLIDAY SPENDING INFO SESSION

NOVEMBER 8
Bldg. 6001, 2nd floor, room 224. 11:30 a.m. to 12:30 p.m. Open to all employees and service members. Session provides light-hearted foundation for planning holiday spending, how to avoid debt and establishing a gift-giving budget. For more information contact Tiffany Grimes at 443-861-7901 or tiffany.l.grimes.civ@mail.mil.

HOLIDAY HEALTH INFO SESSION

NOVEMBER 15
For more information contact Bldg. 6000, Myer Auditorium. 11:30 a.m. to 12:30 p.m. Open to all. Session explores how to stay healthy over the holidays, from food swaps to managing stress Tiffany Grimes at 443-861-7901 or tiffany.l.grimes.civ@mail.mil.

BLOOD DRIVE

DECEMBER 1
APG South (Edgewood) recreation center. Starts at 9 a.m.

ANNOUNCEMENTS & MISCELLANEOUS

ALTERNATIVE WORKSPACE DISPUTE SEEKS MEDIATORS

APPLICATION DEADLINE NOVEMBER 9
Training for new Alternative Workplace Dispute Program mediators has been changed to Dec. 12-16 and the application deadline has been extended to Nov. 9. Individuals interested in becoming mediators should email Cathy Davis at cath.a.davis4.civ@mail.mil or Ria Johnson at valaria.r.jonson.civ@mail.mil.

COMBINED FEDERAL CAMPAIGN

THROUGH DECEMBER 15
The Combined Federal Campaign at APG runs Oct. 1 through Dec. 15. This year's installation goal is \$300,000. Make a Difference. Be a Hero. For more information about the campaign or how to donate, contact Sgt. 1st Class Tameka Dixon at Tameka.d.dixon.mil@mail.mil or 410-278-3549.

APG SOUTH 2016 WATER MAIN FLUSHING

The APG South (Edgewood) 2016 water main flushing schedule is as follows: Through September: E3000-E4000 area; 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.

MORALE, WELFARE & RECREATION



Upcoming Activities

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

SAVE THE DATE

BJ'S MEMBERSHIP SIGNUPS

NOVEMBER 1-2
Exton Golf Course, 11 a.m. to 1 p.m. on Nov. 1 and APG North Bowling Center, 11 a.m. to 1 p.m. on Nov. 2. New and renewal memberships accepted. \$35 for 13-month inner circle membership (\$15 discount); \$75 for 13-month rewards membership (\$25 discount). All forms of payment accepted; discounts only available in-person. For more information, contact Patricia Harkins at 410-436-4667 or patricia.e.harkins.naf@mail.mil.

HOLIDAY BAZAAR

NOVEMBER 16
APG North (Aberdeen) recreation center, 10 a.m. to 2 p.m. Vendors to feature items including home décor, jewelry, artwork, gift items, baked goods and much more. Door prizes and giveaways. For more information, call 410-278-4011.

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.

PENNSYLVANIA RENAISSANCE FAIRE TICKETS

THRU OCTOBER 30
2775 Lebanon Road, Manheim, PA 17545. Tickets are \$25.25 each. For more information, call 410-278-4011/4907.

"A CHRISTMAS STORY" MUSICAL DISCOUNT TICKETS

DECEMBER 11

Hippodrome Theater, Baltimore, 6:30 p.m. Upper balcony seating, \$39 per ticket. Visit MWR Leisure Travel Services to purchase tickets. For more information, call 410-278-4011.

BINGO

MONDAY & WEDNESDAY
APG Bowling Center; early bird games at 6 p.m., session program at 7 p.m. Eight session games paying out \$50 each. Two nightly jackpots paying out \$200 and \$500. For more information, call 410-278-4041.

CREATIVE CANVAS

NOVEMBER 4
APG South (Edgewood) youth center, 6 to 8 p.m. SKIES Unlimited will guide youth and adult through step-by-step painting. Open to 1st through 12th grade students and their parents. Parent participation is required. Supply fee is \$25, includes one youth and 1 adult. \$10 per additional child. Food and refreshments to be served. For more information, contact shirelle.j.womack.naf@mail.mil or call 410-278-4589/3250.

FAMILY MOVIE NIGHT

NOVEMBER 4
APG North (Aberdeen) recreation center. 6 p.m. Free movie night featuring "Ice Age: Collision Course." Food and drink available for purchase. For more information, call 410-278-4011.

CYSS SURVEY THROUGH NOVEMBER 14

Have a child enrolled in elementary school in Edgewood? Interested in transportation for your children? Take this CYSS survey through Nov. 14: <https://www.surveymonkey.com/r/2XMLWJL>.

FAMILY MOVIE NIGHT

NOVEMBER 18
APG South (Edgewood) recreation center.

6 p.m. Free movie night featuring "Nine Lives." Option to bring your own food. For more information, call 410-278-4011.

STRONG BEGINNINGS, PRE-SCHOOL AND KINDERGARTEN OPENINGS

Participants must be registered with the Parent Central Office. Fees are based on the total family income. For more information, contact the Parent Central Office at 410-278-7479.

ARMY COMMUNITY SERVICE

KEEPING THE HOLIDAYS IN PERSPECTIVE

NOVEMBER 16
Bldg. 2503 11 a.m. to 1 p.m. Session provides tools and techniques to prepare a positive mindset during the stressful holiday season. Bring a smooth-sided glass jar to create a Gratitude Jar to help build positive emotion all year long. Brown bag lunch. Registration is required. For more information, or to register, contact Sarah Polanco at 410-278-2464 or sarah.polanco.civ@mail.mil.

VOLUNTEER MANAGEMENT INFORMATION SYSTEM TRAINING

NOVEMBER 17
DECEMBER 15
Bldg. 2503 11 a.m. to noon. Whether a new volunteer or someone who has volunteered for years, it's never too late to register as a volunteer on VMIS. VMIS allows users to apply for volunteer positions on or off post, track all volunteer hours (regardless of location) retain volunteer information, trainings and awards, and receive recognition at the annual Volunteer Recognition Ceremony. Bring your own laptop (optional) to register on the spot. For more information, or to register, contact Sarah Polanco at 410-278-2464 or sarah.polanco.civ@mail.mil.



U.S. ARMY PHOTO BY RACHEL PONDER, APG NEWS

Start Smart Adaptive Soccer

Eric Henderson, with the Child and Youth Sports program, shows Jaheim Justice, 3, a soccer drill during a Start Smart Adaptive Soccer session on APG North (Aberdeen) Oct. 19, 2016.

During the five sessions, hosted by the Exceptional Family Member Program and Child and Youth Sports, children with special needs learned the basics of soccer through skill stations based on their individual ability. Parent Rhonda Greene Justice, with the Joint Program Executive Office for Chemical and Biological Defense, said her twins were eager to learn soccer techniques, and would practice them at home. "I think it is a great opportunity, I am so excited they were able to participate," she said.

Starting in January 2017, EFMP and Child and Youth Sports will host Smart Start Adaptive Basketball on APG South (Edgewood), for children with special needs and their family members.

For more information, contact EFMP Manager Nancy Goucher at 410-278-2420 or nancy.e.goucher.civ@mail.mil.

inside

CHEM/BIO

ARL's Open Campus initiative takes researchers to the Philadelphia area to explore possible partnerships with small businesses focused on unmanned aerial vehicles. **Army | B2**

COST SAVINGS

A water-cooling system, meant to reduce energy costs associated with cooling APG's supercomputing facility by more than \$8 million, recently received an Army energy efficiency award. **Supercomputer | B3**

CHEM/BIO

ECBC welcomes a systems engineer and former product manager for battlespace management integration to APG South as the center's new military deputy. **New | B4**

newsbrief

ARMY WARFIGHTING ASSESSMENT

U.S. ARMY TRAINING AND DOCTRINE COMMAND

Modernizing mission command capabilities is critical and facilitates the decision-making of leaders and Soldiers across all tactical echelons.

The Army Warfighting Assessment, or AWA, is the first in a series of Soldier-led assessments that maximizes collective training resources, joint and multinational interoperability, and future force development priorities.

AWA 17.1, led by the Army Capabilities Integration Center's Brigade Modernization Command, a subordinate unit of Army Training and Doctrine Command, will run Oct. 17-28 at Fort Bliss, Texas.

Army Warfighting Assessments will serve as the principal venue for assessing network interoperability in a joint/inter-organizational/multinational environment.

The Army will conduct one AWA annually, along with one Network Integration Evaluation (NIE), to provide an environment that integrates live, virtual, constructive and gaming training environments, which allows commanders to creatively generate the highest possible training readiness while informing modernization efforts.

The AWA identifies and assesses interim solutions to meet the Army warfighting challenges. It focuses on the assessment of concepts and capabilities without the constraints of the complementary NIE events' formal testing environment.

online

www.TeamAPG.com/APGNews

facebook.com/APGMd

twitter.com/USAGAPG

flickr.com/photos/usagapg/

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

APG hosts CEMA Conference

Cyber, electromagnetic activity experts gather for 2nd annual conference

BY BRANDON POLLACHEK
PEO IEW&S

With the theme of "Achieving Overmatch through the Convergence of Cyber, Signal, Electronic Warfare, Intelligence, and Space Capabilities," on their mind, more than 800 Soldiers, joint partners industry members and partnering nations descended upon Aberdeen Proving Ground, for the Second Annual Cyber Electromagnetic Activity, or CEMA, Conference.

The CEMA conference, which is co-sponsored by the Army and the Association of Old Crows, was held from Oct 17-20 with a series of keynote speeches, technical sessions, networking opportunities and capability displays.

Exploring how the Army can provide the joint force with multiple options in the areas of electronic warfare, cyber, and electromagnetic spectrum operations and establishing the best ways to integrate these efforts with multiple partners, while operating across multiple domains, and presenting adversaries with multiple dilemmas was the overarching purpose of the conference according to Col. Marty Hagenston, Project Manager Electronic Warfare & Cyber which hosted the conference.

"The group met to discuss all things CEMA from user sessions designed to identify current issues and introduce initial problem solving amongst field unit representatives, system developers and associated policy makers," he said.

In just its second iteration, the CEMA



U.S. ARMY PHOTO

Electronic Warfare systems are displayed during the 2nd Annual Cyber Electromagnetic Activity (CEMA) conference held at Aberdeen Proving Ground, Maryland Oct. 17-20, 2016.

conference has quickly grown in popularity with an approximate boost of 60 percent in attendance to now include participation from all major Army Commands. Due to the evolving threat, the need for the CEMA community to step to the forefront of DOD planning is essential.

Forces to be reckoned with

"This October marked 15 years of persistent conflict where the Army has enjoyed a distinct technological advantage in its fight against terrorism and in the conduct of counter-insurgency operations," said Mike Ryan, Deputy Project Manager Electronic Warfare & Cyber and conference chairman.

"Today, we are on the brink of a new era of great power competition conflict. With a

resurgent Russia and an escalating China, a civil war in Syria with international implications, as well as Iran and North Korea steadily flexing their military presence — all are forces to be reckoned with.

"All are employing advanced electronic warfare and cyber capabilities at a rapid rate. Given these recent developments from prospective near-peer adversaries, the Army must prioritize competing overmatch capabilities against limited resources. An innovative approach to this problem is to develop an effective enterprise capability convergence of cyber, signal, electronic warfare, intelligence, information operations, and space capabilities. The idea of capability convergence as a combat multiplier is the basis for this year's conference theme." *See CEMA, page 7*

Developing the future workforce

CERDEC trains students for future careers through higher learning resources

BY DAN BALDWIN

Communications-Electronics Research, Development and Engineering Center

In order for the U.S. Army to remain successful in the future, it is essential to acquire and retain the best engineers and scientists. Part of that process includes providing internship opportunities for students.

To better equip incoming talent into the workforce, U.S. Army Materiel Command's Communications-Electronics Research, Development and Engineering Center, or CERDEC, provides various opportunities for college and university students studying in science, technology, engineering and mathematics, or STEM, fields.

One of these opportunities is provided through the Pathways Internship Program, a federal program designed to provide high school to graduate level students paid opportunities to work in agencies and explore federal careers while in school. Students who successfully complete the program may be eligible for conversion to a permanent job in the civil service.

While students assigned to CERDEC are



U.S. ARMY PHOTO BY ALLISON BARROW, CERDEC

Participants of the Pathways Internship and SMART programs toured CERDEC labs to get a better understanding of CERDEC's overall mission. CERDEC offers higher learning resource opportunity as a way to keep the best scientists and engineers as part of the Army's workforce.

busy in their separate labs, it can be easy to lose focus on the overall Army mission. To help aid the Army's continuing developmental process, current CERDEC interns spent the day touring Night Vision and Electronic Sensors Directorate labs at Fort Belvoir, Virginia, on Sept. 28.

The tour gave the students an opportunity to get a first-hand look at the projects some of their peers have been working on, as well as develop additional professional contacts to better help interns perform duties that align with CERDEC. *See INTERNS, page 7*

New AMC commander visits APG



U.S. ARMY PHOTO BY KRIS JOSEPH, CECOM

Still in his first month as commanding general of the U.S. Army Materiel Command, Gen. Gustave F. Perna walks through the C4ISR Center of Excellence campus accompanied by APG Senior Commander Maj. Gen. Bruce T. Crawford, commanding general of the Communications-Electronics Command, Oct. 20, 2016, during Perna's first visit to APG since taking command of AMC on Sept. 30.

Perna stopped at several AMC subordinate commands located at APG, including the Communications-Electronics Command; Research, Development and Engineering Command; Army Research Laboratory; Communications-Electronics Research, Development and Engineering Center; and Software Engineering Center.

Army researchers seek innovation during small business visit

By DAVID McNALLY
Army Research Laboratory

Army scientists and engineers are seeking future partnerships with small businesses in an effort to find innovative technology solutions for the future.

A group of 12 mechanical and aerospace engineers from the U.S. Army Research Laboratory toured two aviation companies run by two brothers in the Philadelphia area Oct. 13.

Michael Piasecki, president of DPI UAV Systems, develops small rotary wing unmanned aerial vehicles for military and commercial customers.

"These are complex systems that you have to build test infrastructure to support and to test early and hopefully with our proximity to the Army Research Lab, they can take advantage of our experience in this field," Piasecki said.

Piasecki's path to aviation research and development may have been destiny. In 1936, his father, aviation pioneer Frank Piasecki, and a group of engineering students from the University of Pennsylvania, designed and built their own helicopter. By the 1950s, he had formed the Piasecki Aircraft Corporation.

"I am a product of my father, who was a very passionate inventor and responsible for many aircraft," Piasecki said. "He gave me this passion, of a love of flight, but more importantly a love for solving engineering problems."

On the same compound near the Philadelphia International Airport, Michael's brother, John Piasecki, president and chief executive officer of the present-day Piasecki Aircraft Corporation, showcased what his company is doing, which among other things, includes work for the Defense Advanced Research Projects Agency.

Piasecki is building a prototype for DARPA. The Aerial Reconfigurable Embedded System, or ARES, is a "vertical takeoff and landing flight module designed to operate as an unmanned platform capable of transporting a variety of payloads," according to the agency's website.

John Piasecki sees a future where UAVs play a big role in moving payloads for both military and commercial applications.

"I think the same capabilities that are being looked at by Amazon and Google, of logistics on-demand capability using small UAVs, while the scale might be a little bit larger for the military, it's really a very similar approach," Piasecki said.

ARL's Open Campus initiative guides Army researchers toward a new business model for building an integrated work environment with academia, industry and government, "thus fueling innovation through research and development collaboration," according to ARL officials.

"As a part of the Open Campus initiative and our own efforts, we want to collaborate



U.S. ARMY PHOTO BY DAVID McNALLY, ARL
Michael Piasecki, president of DPI UAV Systems, shows visiting Army researchers his company's small rotary wing unmanned aerial vehicles Oct. 13, 2016, at the company headquarters near Philadelphia.

with small companies where they bring in a lot of innovations and a lot of drive to innovate, but they may not have access to a lot of expensive facilities or capabilities," said Dr. Rajneesh Singh, a team lead with the laboratory's Vehicle Technology Directorate and the visit organizer. "These kinds of visits give us the ability to develop beneficial partnerships where both parties, both ARL and these small companies, can join together and take things to the next level."

Singh said there are a lot of things you can't learn from reading papers or watching videos.

"By having face-to-face meetings, by seeing the hardware facilities that they have, by seeing some of the prototypes that they have, we got to learn, much better than would have been possible through phone discussions, or by reading published papers," he said. "We have identified quite a few opportunities and their response has been very positive. They do want to collaborate with us on several opportunities. There may be a CRADA in the future."

CRADAs are cooperative research and development agreements between a government agency and a private company or university to work together on research and

development.

"Small business has a tremendous amount to offer the Defense Department," said John Piasecki, "particularly in getting innovative ideas and demonstrating them in an affordable and timely fashion."

Piasecki said another brother plays an integral role at Piasecki Aircraft.

"Fred Piasecki is the chief technology officer and chairman of the board of Piasecki Aircraft with overall responsibility for technical management and execution of PiAC's flight research programs," he said. "Large organizations have a challenge in getting new ideas demonstrated. I think

small business has a big role to play and I think ARL and the government labs in general could have a very important role in providing resources and a framework within which these innovative entrepreneurial companies can take their ideas from concept into hardware and in flight."

ARL's vision is to be the "premier advocacy organization committed to maximizing small business," according to its Small Business Opportunities website.

"There was a lot of discussion of technology of joint interest," Singh said. "Small, nimble companies can be good partners."



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Supercomputer cooling system earns Army award

BY DAN LAFONTAINE

Research, Development and Engineering Command

A U.S. Army partnership will result in millions of dollars in energy-cost savings for a supercomputing center at APG, officials recently announced.

After the Army Research Laboratory announced it would install additional computing capability in 2015 to its facility at APG, engineers and facility managers looked to minimize energy costs.

A team of three Army organizations and two companies proposed to implement a water-cooling system versus the typical air-cooling method.

The water-cooled system is about 40 percent more efficient than existing air-cooled units used by the Army. The estimated first-year savings is \$485,380, and APG expects to save \$8.2 million over the 14-year performance period.

“Because it’s a supercomputing facility, it’s a huge energy draw compared to a normal office building, and requires cooling year-round, rather than only during the Summer,” said Melanie Reese, an ARL civil engineer. “The water cooling system is able to cool the supercomputers extremely efficiently when outdoor temperatures are below 50 degrees Fahrenheit.”



U.S. ARMY PHOTO BY CONRAD JOHNSON, RDECOM
(From left) Daniela Caughron, Jeffery Presgraves, Melanie Reese, Thomas Kendall.

The team won the 2016 Secretary of the Army Energy and Water Management Award in the Energy Efficiency/Energy Management category.
ARL; the Army Research, Development

and Engineering Command; and Aberdeen Proving Ground’s Directorate of Public Works combined to complete the project under a tight deadline, said Thomas Kendall, technical director of the ARL’s

DOD Supercomputer Resource Center.

“Over time, more of the supercomputers being installed in Building 120 will be able to run off the water-cooled system. It was designed for future years,” Kendall said. “New supercomputer systems are being designed to use water for over 99 percent of their cooling demands.”

ARL anticipates to acquire and install new supercomputing systems every two years through the life cycle of the chilled-water cooling plant, Reese said.

“The system makes use of an on-site well to further reduce its operating cost. Without the combined efforts of ARL Environmental Team, DPW and the City of Aberdeen Water Company, the well would not have been an option,” Reese said.

Daniela Caughron, a facility program manager with RDECOM, said this effort is part of the larger Army strategy to implement energy-saving projects at its installations.

The Army has started 127 projects at 52 installations that now exceed \$1 billion, Secretary of the Army Eric Fanning announced Aug. 11, 2016.

“On our installations, and wherever we maintain and train our force, the Army is focused on finding the sweet spot between energy efficiency and energy security,” Fanning said at the announcement.

A focus on position, navigation and timing

Forward-thinking navigation device simplifies platform

BY KATHRYN BAILEY

Communications-Electronics Research, Development and Engineering Center

The Global Positioning System, or GPS, provides ground platform Soldiers with the critical trifecta of position, navigation and timing, or PNT, information, however the signal’s susceptibility to interference can turn a routine mission into anything but.

In addition, each platform function, such as driver navigation, overall situational awareness or weapons targeting information requires a separate GPS receiver, creating additional size, weight, and power issues inside the vehicle.

To address both of these concerns, the Army’s Communications-Electronics Research, Development and Engineering Center, or CERDEC, has developed the Mounted PNT system, which complements the existing GPS-only capability should the signal become degraded or denied, and, as a single system, unclutters the platform in keeping with today’s expeditionary missions.

“GPS signal issues occur in a variety of environments, including city buildings, forests and mountainous terrain, or from adversarial sources who employ jamming devices to degrade or completely block the signal,” said Van Tran, lead engineer for Mounted PNT under CERDEC’s Command, Power and Integration Directorate’s Positioning, Navigation and Timing Division, or CP&ID PNT&D. “To aid GPS, we grouped an assortment of sensors based on their function and the platform’s mission to form the Mounted PNT system.”

Sensor options include inertials, which use accelerometers and gyroscopes to measure position orientation and velocity; radios to conduct RF ranging, which obtains distances by measuring the time it takes the signal to go from Point A to Point B; cameras to shoot and compare pictures frame by frame to determine movement, and the Chip Scale Atomic clock, or CSAC, which provides the very accurate time.

“No single PNT sensor will provide you with assured PNT everywhere all the time,”



U.S. ARMY PHOTO
Soldiers rely on in-vehicle GPS systems for Positioning, Navigation, and Timing, or PNT, information. CERDEC GPS-aiding technologies such as Mounted PNT integrate multiple sensors to delivered assured PNT.

said Rex Howe, CP&ID PNT&D senior engineer. “Each has its own specific strength and weakness, but by uniting them into a fully integrated system the result is better overall performance.”

The system is adaptable and can be tailored prior to fielding to reflect mission requirements. For example, developers can replace just the GPS module or individual sensors rather than having to replace the entire system, Van Tran said.

“The flexible design will also seamlessly operate with the new Military Code, or M-Code, signal, which will replace the current GPS signal to help provide protection against intentional GPS interference and is a component of the Army’s GPS modernization effort,” Howe said.

CERDEC has been developing PNT capabilities since the 1960s and currently Direct Reporting Program Manager PNT,

which is providing Assured PNT to mounted and dismounted Soldiers.

“The Army deemed Assured PNT as a critical function for mission success and Soldier safety,” said Charlie Miller, chief of CP&ID’s PNT&D. “We are able to leverage our organization’s vast research and development expertise to develop forward-thinking PNT capabilities.”

CERDEC has already shown success in addressing future Mounted PNT capabilities by developing a prototype system that consolidates multiple warfighting function systems into one mounted product. This effort known as Hardware/Software Convergence features one chassis that contains separate payload cards to address areas such as PNT, communications, electronic warfare and mission command.

“By using a chassis, the platform could

alleviate space-stealing components such as transit cases, power supplies, mounts, and cabling,” Howe said. “It will provide an entire PNT solution as well as a system clock that provides slot to slot synchronization to less than 80 pico seconds, or less than 80 trillionths of a second.”

The system will feature an open architecture and open standards design, which will provide a competitive field to develop hardware and software updates instead of entire system builds, Howe said.

“Our innovative PNT solutions can support short-term program goals or be program-or product-agnostic when we are conceptualizing future innovations,” Miller said. “In either instance, we believe our R&D efforts will lead to robust Assured PNT solutions that support many Army warfighting functions and the Soldiers who rely on them.”



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THIS WEEK IN APG HISTORY



Take a look back in time as the APG News explores what made the headlines around APG during this week 10, 25 and 50 years ago. This week's APG News masthead is from 1970.

BY YVONNE JOHNSON, APG NEWS



10 Years Ago

Oct. 26, 2006

From left, APG NCO of the Year Staff Sgt. Timothy Inman poses with USAF Staff Sgt. Charles Dettlinger; and USMC Gunnery Sgts. Eric Darmstadt and Daniel Brugger after receiving the custom rings they were awarded for being named the installation's Service Members of the Year.



25 Years Ago

Oct. 23, 1991

Ken Stachiw, chief of the APG Environmental Engineering and Natural Resources Branch. Explains post cleanup issues during a public meeting at Ring Factory Elementary School in Bel Air.



50 Years Ago

Oct. 27, 1966

A 6th Special Forces Soldier from Fort Bragg, North Carolina, fires the new 40mm XMR48 grenade launcher, mounted underneath the XM16E1 rifle during final engineering tests at Development and Proof Services of Aberdeen Proving Ground.

New military deputy arrives at ECBC

Col. Saltysiak comes to Edgewood from Afghanistan, Kuwait deployments

EDGEWOOD CHEMICAL BIOLOGICAL CENTER

Unpacked boxes are usually a sign that someone is settling into a new home. In this case, it's a homecoming for the new military deputy to the director at ECBC, Col. Thomas Saltysiak. A Baltimore native, Saltysiak arrived at Edgewood on Oct. 3 from a six-month deployment to Afghanistan and Kuwait.

"We moved away from Baltimore when I was an infant," said Saltysiak, an Army brat. "But I have a huge extended family here so we requested Maryland for my next assignment."

Saltysiak relocated his wife, Jessamyn, and three children to Harford County in December 2015 in anticipation of his new assignment. The Saltysiaks were previously living in Alabama, where Col. Saltysiak was a product manager for Battlespace Management Integration under the Integrated Air and Missile Defense Project Office at Redstone Arsenal.

With empty packing boxes stacked in a corner of his office, Saltysiak spent his first week at ECBC touring facilities, sitting in on meetings and attending a meet-and-greet after the AUSA conference.

"There's a lot to learn but I think I started off on the right foot," he said of the AUSA conference. "I got to meet key leaders in the chem-bio community."



U.S. ARMY PHOTO

Col. Tom Saltysiak has assumed the position as the new military deputy to the Edgewood Chemical Biological Center at Aberdeen Proving Ground, Maryland. Saltysiak arrived in early October from deployments in Afghanistan and Kuwait.

During his deployment, Saltysiak served as director of the office of the Assistant Secretary of the Army (Acquisition, Logistics and Technology), Forward, CENTCOM, where he supported tactical operations.

He describes his new role as "fairly different" than his previous positions. "In Kuwait and Afghanistan, I was there as a forward representative in the theater for the Assistant Secretary of the Army, Acquisition, Logistics and Technology, who leads

all technology efforts for the Army, including RDECOM and ECBC." In looking for his next assignment, he requested a move to RDECOM, which would give him an opportunity to work on the science and technology side of acquisition.

A systems engineer, Saltysiak said he's never worked in the chem-bio sphere before but feels his background provided transferable skills that he's willing to share with his new colleagues. "Anyone (at ECBC) who would like to get a warfighter's opinion on

what they're working on can call me," Saltysiak said. "I'd love to get out of my office and spend a couple of hours with them."

Saltysiak will report to ECBC Director Dr. Joseph Corriveau. He succeeds Col. Debra Daniels, who retired in August.

Prior to being a product manager, Saltysiak was as an assistant professor in the Department of Systems Engineering at the United States Military Academy at West Point, New York. "I'd always wanted to try teaching," he said. "When the Army gave me an opportunity, I jumped on it."

Saltysiak believes he can apply many aspects of his West Point experience to his work at ECBC, such as mentoring small groups that are seeking novel approaches to emerging science and engineering problems. "I learned a lot while teaching," Saltysiak added. "I enjoyed it."

Saltysiak attended high school and college in Georgia, where he enlisted in the National Guard as a fire support specialist in 1989 and was commissioned into the Military Intelligence Branch in 1994 upon graduating from North Georgia College with a bachelor's degree in chemistry. Saltysiak has since earned a master's degree in systems engineering, and a doctorate in systems engineering and operations research from George Mason University.

"I'm excited to be here," Saltysiak said. "Systems engineering is a broad discipline. There are a host of ways I can apply it here."

Saltysiak is looking forward to collaborating on systems engineering approaches such as model-based systems engineering and system architecture analysis, as well as helping the leadership with technical challenges of project management such as schedule risk simulation.

Whyne joins Ancient Order of the Dragon



U.S. ARMY PHOTO

Program Executive Officer Conrad F. Whyne, Assembled Chemical Weapons Alternatives, poses with Brig. Gen. William E. King, IV, commander, U.S. Army 20th CBRNE Command and Sgt. Maj. Kenneth Graham after being inducted into the Chemical Corps Regimental Association Ancient Order of the Dragon Oct. 14, 2016.

Whyne was recognized for his 38 years of service that includes his current responsibilities overseeing destruction of the last two U.S. chemical weapons stockpiles, his accomplishments as the Director of the U.S. Army Chemical Materials Agency, and his service as a Chemical Corps officer in the U.S. Army.



COURTESY PHOTO

Fellows from the Class of 2017, APG SSCF Program (from left) Mike Danhires, Jerry Harper, Brian DeBiase, Jonathan Reiner, Scott Kelley, Phil Minor, Stephen Conley, Jim Shillingford, and Lareina Adams stand before the Painted Rocks, Oct. 12, 2016, during a visit to the National Training Center at Fort Irwin, California.

Senior Service Fellows visit training and logistics sites

BY JIM OMAN
Defense Acquisition University

Fellows currently enrolled in the APG Senior Service College Fellowship Program, accompanied by program director Jim Oman, visited two key military installations in California, Oct. 11-13.

National Training Center

Fellows visited the National Training Center, or NTC, at Fort Irwin, California on Oct. 11. The NTC is known as one of the Army's "dirt" combat training centers. The NTC visit provided the fellows with first-hand, eyes-on exposure to the latest technological advances in training and enabled them to observe the vital role that the NTC plays in preparing individuals, leaders, and units for combat deployments.

Col. Scott Cunningham, NTC chief of Reserve Components Operations welcomed the APG fellows and provided a brief overview of the center and Fort Irwin. Cunningham then led fellows on a tour of the NTC Division Tactical Operations Center, where they observed the key roles being accomplished by multiple staff sections as well as observed ongoing operations.

The fellows also visited the headquarters of the 11th Armored Cavalry Regiment, or ACR.

Col. Joseph Clark, 11th ACR commander, and Command Sgt. Maj. Michael Stunkard explained the organizational structure of the regiment and their mission serving as the opposing force for the NTC.

Seated inside UH-60 Blackhawks, fellows

were given an aerial overflight of the "maneuver box" on their way to the Dragon Bunk, the command and control structure for live fire missions. At the bunker, fellows saw the control measures in place that contribute to safe yet realistic training events.

National Urban Warfare Center

The day concluded with a visit to the National Urban Warfare Center, or NUWC, and the fully-instrumented village of "Raz-ich." At NUWC, they received a "sights and smells" demonstration of the village, maneuvered from one building to another using tunnels routinely used by opposing forces, observed a pyrotechnics demonstration and experienced the realistic role players portraying villagers on the battlefield.

On Oct. 12, fellows donned helmets and loaded into High Mobility Multipurpose Wheeled Vehicles for the more than 30 minute drive through the NTC "maneuver box." The drive led fellows to the town of "Guba" where they met with several observer controller trainers who briefed them on the objectives of the lane training. Fellows had the opportunity to observe a military police platoon conducting movements through the village as they completed a mission to act upon intelligence in order to safeguard the populace.

MILES warehouse & NTC

headquarters

Next, the fellows visited the Multiple Integrated Laser Engagement System, or MILES, warehouse. Following a tour of the warehouse, the fellows moved to the headquarters for the NTC Operations Group.

There, the fellows received a briefing on the current contracting acquisition strategy delivered by Cyle Fena, NTC deputy G-3. They also met with Col. Matthew Moore, NTC deputy commander/chief of staff, and currently the acting commander, for a question and answer session.

To conclude their visit to the NTC, fellows watched a previously recorded brigade level after action review which had been taped the day before.

On Oct. 13, fellows traveled to the U.S. Marine Corps Logistics Base Barstow, California. During the visit, fellows learned about vehicular fleet preservation efforts at the Fleet Support Division, as well as the management and disposition of entire families of vehicles across all services. Lt. Colonel Timothy Silkowski, FSD director, accompanied the fellows on a windshield tour of the storage yards where he described various vehicles and weapon systems as well as their planned disposition.

The visit to Barstow also included a tour of the Production Plant Barstow-Marine Depot Maintenance Command; the railroad, where they learned about the critical role of the Movement Control Center in supporting rotations of units training at NTC, and Lindsley Stables where they learned about the Marine Corps Mounted

Color Guard.

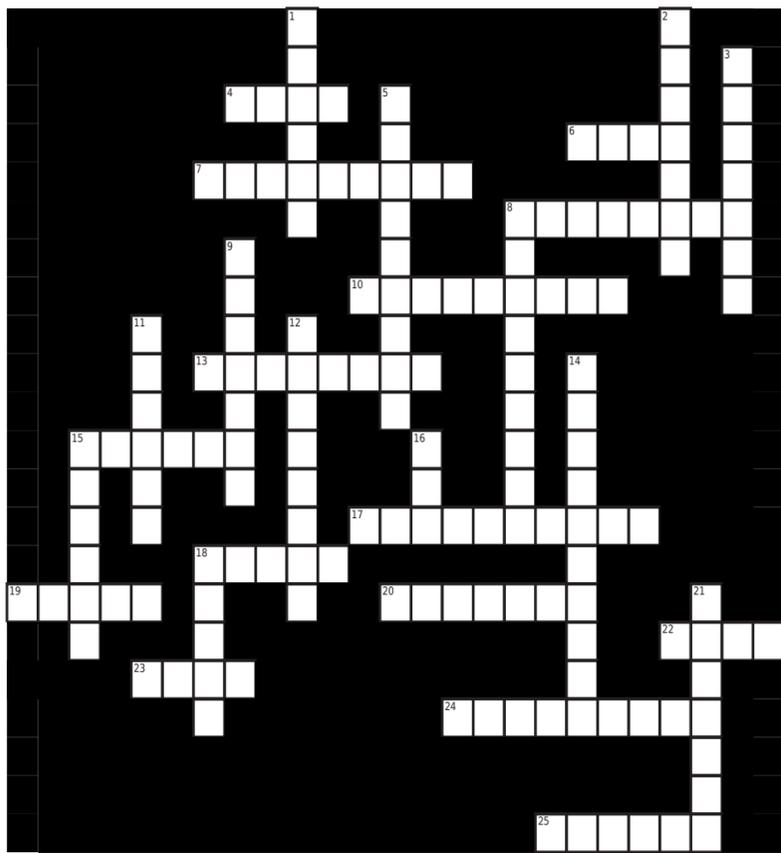
The fellows gained an appreciation of how the Logistics Base Barstow supports the warfighters as well as observed the work being conducted on the plant line during the facility tour.

According to SSCFP leadership, the joint visit to the NTC and the Marine Corps Logistics Base Barstow provided an exceptional and unique opportunity for the fellows to view and consider the many leadership challenges faced by the Army's and Marine Corps' leaders as they collectively prepare and support their respective services to defend our National interests.

Senior Service College Fellowship Program

The SSCFP is a nationally-recognized, Army-sponsored program designed to develop strong, effective senior leaders for the Department of Defense Acquisition community. The SSCFP announcement, or call for applications for selection/attendance, to attend the class of 2017-18, which starts on July 24, 2017, is expected to run from Jan. 23 through March 23, 2017. Program announcement information will be posted on US Army Acquisition Support Center website at <http://asc.army.mil/web/>. Acquisition professionals from the fourth estate may also apply for consideration/selection.

For more information, visit the DAU website at www.dau.mil/sscf/Pages/app.aspx or contact James Oman at james.oman@dau.mil or 410-272-9470.



THE APG CROSSWORD

Calling all scary movie buffs

Think you know your scary movies? Get in the Halloween spirit with this scary movie trivia puzzle. Go ahead and "taste test" some candy as well, we won't tell the kids!

BY LAUREN FINNEGAN
APG News

Across

4. Characters in the movies "Psycho," "The Silence of the Lambs," and "The Texas Chainsaw Massacre" were all inspired by this real life murderer.

6. The mask for Michael Myers in "Halloween" was made out of a toy store mask of this "Star Trek" character.

7. The end of the film "Paranormal Activity" was changed because of a suggestion by this famous movie director.

8. The title of this 2014 film, "The _____" was a play-off of the Serbian word for boogeyman: Babaroga.

10. "The _____" features real-life paranormal investigators Ed and Lorraine Warren.

13. This Academy Award-winning actor was originally supposed to play the lead role of Max in "Hocus Pocus."

15. Head _____ was the original for "The Texas Chainsaw Massacre."

17. "Friday the 13th" was filmed at a real camp in this state.

18. To make the vampires look more realistic in "Interview with the Vampire," the actors hung upside down, so these could be traced.

19. The 2002 thriller "Signs" takes place in this Pennsylvania county.

20. Eli Roth, the director of "Hostel," had a string _____ play while filming in an old mental hospital to make the set less frightening.

22. This is the name that Jason from "Friday the 13th" was supposed to be called.

23. In the film, "Candyman," actor Tony Todd put these live insects into his mouth, wearing only a mouth guard to protect them from traveling down his throat.

24. "The _____" was the only horror movie ever nominated for an Oscar for Best Picture.

25. Sissy Spacek was only given an audition for this film as a courtesy to her husband, art director, Jack Fisk.

filming the pool scene for "The Rocky Horror Picture Show" because of a lack of heat on the set.

8. This actress was originally supposed to play the lead role of Sidney Prescott in the movie "Scream."

9. The movie "Final Destination" was based on an unused idea for this T.V. show.

11. Damien, the main character in "The Omen," was named after a _____ who started the first leper colony in Hawaii.

12. "The Exorcist" is supposedly based on the story of a boy who lived in this state.

14. The original title for "Halloween" was "The _____ Murders."

15. _____, the cat in "Pet Sematary," was played by seven different cats.

16. A drawing of a character from this James Wan horror film was on a chalkboard in a scene in "Insidious."

18. This Disney executive was fired for buying the rights to "The Sixth Sense" without his boss' approval.

21. The cocoons in "The Silence of The Lambs" were really _____ rolls and gummy bears.

Think you solved last week's puzzle?

Check out the solution below

Solution to the October 20 puzzle

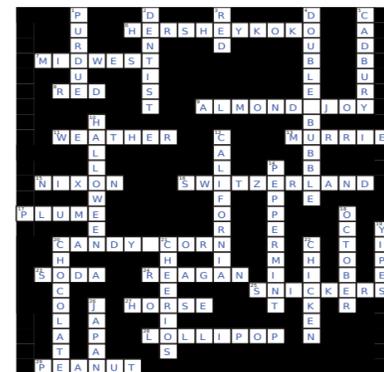
Down

1. "Psycho" was the first American film to show this on screen.

2. The movie "Scream" got its name from a song of the same name by this recording artist.

3. The movie "Child's Play" was about a doll named _____, that is possessed by a dead serial killer and commits murders and other crimes that are blamed on an innocent boy.

5. Susan Sarandon caught this after



Programs benefit students, future Army workforce

INTERNS, From page 1
DEC's goals.

"It allows them to get an overall view of CERDEC's mission," said Stacey Lambert, CERDEC Management Workforce Development Support Branch management analyst. "Because they work for individual directorates they know what their directorate does, but they might not have a full understanding of where they fit into the bigger picture."

The September tour was the second made available to current interns; interns also had the opportunity to tour CERDEC labs at APG in August.

"The purpose is to attempt to keep scientists and engineers working for CERDEC," Lambert said, "because at some point, we know that a good portion of our workforce is going to retire. We're bringing in college graduates who will come into an organization and be trained in how their organization operates, which gives them an opportunity to transition right after they make it to their journeyman level."

Pathways Internship Program

Current students in an accredited high school, college, trade school, advance degree programs, or other qualifying educational institution pursuing a qualifying degree or certificate are eligible to apply to the Pathways Internship Program. Hiring agencies may hire interns on a temporary basis for up to one year for an initial period, or for an indefinite period, to complete the educational requirement.

The work of all interns will be related to their academic career goals or field of study.

"It allows them to come in and really work and learn," Lambert said. "And we as an employer have an opportunity to develop our workforce for several years, and train them so that when they get to their GS-12 level they're ready to hit the ground moving and take over for their peers, their team leaders, and they're ready to move into leadership roles."

Interns may be converted to a permanent position within 120 days of successful completion of the program. To be eligible for conversion, interns must complete at least 640 hours of work experience acquired through the Pathways Internship Program, complete their degree or certificate requirements, meet the qualification standards for the position to which the intern will be converted, and have the ability to perform their job successfully.

"I'm currently studying industrial engineering," said Morgan Gardner, a Pennsylvania State University student who has been interning with CERDEC's Night Vision and Electronics Sensors Directorate since the beginning of summer. "For what I'm study-



To better equip incoming talent into the workforce, CERDEC provides various opportunities for college and university students studying in STEM fields. Many of the students continue working for CERDEC after graduation.

ing, it really looks like I want to come back full time. An internship here helped me get my feet wet, and it's really pushed me forward."

SMART Scholarship for Service Program

Another higher education resource opportunity offered to students is the Science, Mathematics and Research for Transformation, or SMART, Scholarship for Service Program. Established by the Department of Defense, or DOD, the scholarship program supports undergraduate and graduate students pursuing degrees in STEM disciplines.

In addition to having their full tuition and education related fees paid for, students participating in the SMART program also receive a stipend paid at a rate of \$25,000 to \$38,000 depending on the degree they are pursuing, and more.

All interns from either program have the same access to all resources available to any full-time employee. They have opportunities to travel to complete their trainings, they can request repayment for student loans, and they can seek advance degrees that may be offered to them.

However, there is one difference between the two higher learning resources.

"Once the student has been accepted through the Pathways Internship Program,

the interns are here for as long as they want to be, provided they meet the standards set by the program" Lambert said. "But our SMART students do have to fulfill a service commitment. So the number of years that DOD paid for their education, they have to give that amount of time back to their organization. It's like ROTC for civilians."

Developing the future workforce

Both internship programs present a great opportunity for the potential future members of the CERDEC team. Internship programs are a vehicle where young engineers can gain valuable real-world experience and explore their technical interests.

"CERDEC is continuing to put an emphasis on succession management, focusing on finding the right opportunities for recent grads and promoting people from within CERDEC," said John Willison, CERDEC Space and Terrestrial Communications Directorate director and leads CERDEC's succession management efforts. "CERDEC is working on laying out the road maps for our interns, recent grads and employees in order to make career growth available."

One of CERDEC's recent internship graduates includes Lauren Marzocca. At 18 years old, Marzocca started her first in-

ternship program after her freshman year of college.

"With very limited experience, I was able to surround myself with hands-on work that I would continue in my full-time position," she said. "For three years before I started in my permanent position, I was able to enhance my technical skills, build relationships, and gain experience writing and presenting in professional environments. All of these things made the transition to my current role much smoother."

Marzocca is currently a chemical engineer in the Tactical Power Branch of CERDEC's Command, Power and Integration, or CP&I, Directorate's Power Division. She is also part of the Soldier Power Development Team, and is serving in a temporary developmental assignment as the executive officer for the CP&I director.

"I would encourage all interns and new employees to take every opportunity presented," Marzocca said. "The more experiences you can collect, the more prepared and well-rounded you will be, whether or not you wind up working for the government long-term. There is no better time than early in your career to explore."

For more information about either the Pathways Internship or the SMART Scholarship for Service programs, visit www.cerdec.army.mil/student_programs/higher_education_resources.

Conference focuses on outpacing adversaries

CEMA, From page 1

Laying the groundwork for the conference keynote speakers including Maj. Gen. Bruce Crawford, commanding general, Communications Electronics Command and APG senior commander, Maj. Gen. Kirk Vollmecke, Program Executive Officer-Intelligence, Electronic Warfare & Sensors and others addressed their organization's roles and perspectives in tackling CEMA challenges.

During his welcoming comments, Crawford emphasized that investments need to be made in the future to address the new strategic realities. He also implored the CEMA community to ensure they don't miss the opportunities available because the window for the future is closing.

In a budget constrained environment choices will need to be made regarding the best solutions available to address CEMA challenges.

"Something no one wants to talk about is divestiture. What we need to do is identify what we have to stop doing and transition that funding into what we need to do going forward to find comprehensive solutions," Crawford said.

Generating the questions and areas that the conference should focus on was paramount in Vollmecke's comments. Additionally, he left the audience with some key concepts to consider.

"In the past we achieved 'overmatch' - looking into the future that may no longer be an achievable objective with the different view to impose spectrum dilemmas to create windows of superiority for friendly forces," Vollmecke said. "We must present integrated EW, SIGINT, and Cyber capabilities across multiple domains to outpace our adversaries."

Best pacing the threat

In discussing how to best pace the threat, Vollmecke suggested a changed approach that emphasizes incremental fielding, adaptable prototyping, rapid engineering/integration, and small and frequent software releases with direct user and stakeholder involvement. "We must pursue a different acquisition model for aerial ISR (Intelligence, Surveillance, and Reconnaissance), EW, and offensive cyberspace operations. Our cultural mindset must place greater emphasis on 'deliver now.'"

Vollmecke stressed that PEO IEW&S' core activities are in the middle of rapidly congested and contested electro-magnetic spectrum. "EW capabilities have atrophied and we must make the investment in our people and re-establish those critical strategic relationships and industry support partnerships. We must also recognize that we are in competition with the commercial

sector and we must adapt to it."

With an eye toward the research and development arena, Henry Muller, director, Communications-Electronic Research Development and Engineering Center, said that CEMA domain advancements are often not due to novel technologies, but rather new applications of existing technologies. "At CERDEC, we look to leverage the best of breed technology as part of an integrated capability set and anticipate and mitigate known operational gaps and challenges through novel applications of technologies."

"During the past year, the Army has emphasized cyber and CEMA situational understanding rather than only situational awareness," Muller said. "We used to look at 'what do we know,' approaching it as 'now that we know, how will the mission be effected and what are we going to do about it.'"

Army Rapid Capabilities Office

The conference also served as a platform for leaders to discuss the recent standup of the Army Rapid Capabilities Office, which aims to accelerate critical capabilities to the field to overcome urgent and emerging threats. Col. Keith Hirschman, director of

Emerging Technologies, Army Rapid Capabilities Office, described the office's initial focus areas of cyber, electronic warfare, survivability and positioning, navigation and timing, as well as its unique focus on capabilities that will deliver operational effects within one to five years -- a mission that is complementary to both the Army Rapid Equipping Force and longer-term programs of record.

"Where the Rapid Capabilities Office comes into play can be summed up in 'three Ds:' demand, decision-makers and development," Hirschman said. "Our demand signal comes from the Combatant Commanders and what they need to achieve overmatch in their areas of responsibility. We will present a full-range of potential solutions to the Army's decision-makers. Their decisions will drive projects undertaken by the Rapid Capabilities Office, allowing us to reach for high-risk, high-reward capabilities. Finally, development will be needed, in most cases, as we're not buying items off the shelf for immediate fielding -- we will work with program managers, the Army Science & Technology community and industry to adapt, enhance and integrate selected technologies."

Due to the criticality of the CEMA mission and the success of the first two conferences, plans are already in the works for a larger conference next year.

DID YOU KNOW?

Diwali, celebrated five days, from late-October to early-November, is the most important holiday in India and for millions of Hindus around the world.

Also known as the "Festival of Light," the time of Diwali is a very colorful festive season with many candles in the form of oil lamps made of clay, called Diyas or Dipa Lights. One of the major festivals of Hinduism, Diwali spiritually signifies the victory of light over darkness, good over evil, knowledge over ignorance, and hope over despair. Its celebration includes millions of lights shining on housetops, outside doors and windows, around temples and other buildings in the communities and countries where it is observed. The Hindu God Ganesh, easily recognized by his elephant head, also is worshiped during Diwali for luck in overcoming obstacles. Firecrackers and fireworks illuminate the night over most Indian cities during Diwali. Lots of sweets and foods are eaten and presents are exchanged.

Diwali is the best time of the year in the Indian culture, especially for children. A lot of sweets and a lot of holiday foods are eaten and presents are exchanged. Diwali is a five-day festival that starts two days before the New Moon in the month Ashvin and ending two days after the New Moon in the month Kartika on the Hindu lunar calendar. Not only is Diwali observed by Hindus, but also by Jains, Sikhs and even some Buddhists. It is the major event of the year, celebrated all over India, but also in Nepal, Burma and Sri Lanka, as well as in other countries with a high population of people with Indian heritage. These



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countries include the United States, Canada, United Kingdom, Malaysia, Singapore, South Africa, Mauritius, Trinidad, Fiji and others.

By Yvonne Johnson, APG News

Source(s):

<http://www.diwali2016.in/whatisdiwali.htm>; www.wikipedia.org