



APG NEWS

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

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Vol. 60, No. 41

inside

ACHIEVEMENT

The Corvias Foundation awards an educational grant to an APG family member and nursing student dedicated to helping low-income families.

Military | A3

AFTER-HOURS

As an after-hours hobby, an APG civilian transforms local residents into zombies, ghosts and other creatures for a haunted attraction in Aberdeen.

Army | A4

SERVICE

CECOM's senior command synchronization officer has committed his life to serving the nation, in and out of uniform since emigrating to the United States as a teenager.

Topic | A6

newsbrief

Energy Action Month

Assistant Secretary of the Army (Installations, Energy and Environment)

The Army has a strong legacy of implementing renewable energy projects, improving efficiency at our installations and leading the way to ensure that Army facilities can maintain operations in the face of disruption.

Energy security enhances the ability of the Army to achieve mission readiness. October is Energy Action Month, with a focus this year on "Building Resilience to Enhance Readiness."

The Army will continue to integrate energy security measures in support of Army readiness and resilience into its decision-making processes. To build on the successes of the past, the Army must take steps to aggressively pursue renewable energy, energy performance-based contracting, and energy security.

Energy resilience enables the Army to respond quickly to disruptions in the availability of land, water, and energy. Incorporating energy security, sustainability, and resilience awareness into everyday decision-making processes better postures the Army to successfully deploy and rapidly respond when and where needed.

By continually encouraging responsible energy actions, the total Army team can support Army energy security and sustainability operations. Responsible energy actions contribute to an increase in Army readiness and energy resilience in garrison operations on installations and to warfighters on the battlefield.

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U.S. ARMY PHOTO BY YVONNE JOHNSON, APG NEWS
Gale Sauer and bicyclists review hand signals during the safety briefing before the Bike For Breast Cancer ride at APG North (Aberdeen) Oct. 5, 2016. The lead organizer, Sauer is a wellness coordinator with the U.S. Army Test and Evaluation Command.

Cycling for awareness

BY YVONNE JOHNSON
APG News

More than two dozen riders cycled for increased awareness during the Bike For Breast Cancer ride at Aberdeen Proving Ground Oct. 5, 2016.

The event kicked off an 11.5-mile group ride

around the installation, escorted by police officers from the Directorate of Emergency Services. Displays by Kirk U.S. Army Health Clinic; the Harford County Health Department, MedStar Cancer Center, Johns Hopkins Breast Cancer Center and the Bike Shop of Bel Air, greeted participants at the gathering point near Bldg. 2202 on APG North (Aberdeen).

"By simply holding [the Bike For Breast Cancer ride] we're providing education while offering support to the survivor community, said Gale Sauer, a wellness coordinator and with the U.S. Army Test and Evaluation Command, or ATEC, and the lead organizer.

Karen L. Taylor, ATEC chief of staff, well-see **BIKE RIDE**, page 7

Veteran firefighters reflect on service

BY LAUREN FINNEGAN
APG News

Duty, loyalty, and honor. Those are the values that the men and women who serve our country must possess, whether they wear the military ACU (Army Combat Uniform) or the PPE (Personal Protective Equipment) of emergency responders. These heroes give of themselves so people around the world, the nation, and in our towns sleep soundly, knowing they are safe.

Within our community, we have some men who not only answered the call from their country, but for the fire siren as well. Harford County residents Lt. Col. Jeff Strauss, Bruce Strong, Andy Whaley, and Dave Winchester are all military veterans and active firefighters who volunteer their time to serve the community. During Fire Prevention Week, let's remember that even when something does go wrong, these men are there for us.

Why They Serve

For these four men, serving wasn't a choice, it see **FIREFIGHTERS**, page 7



U.S. ARMY PHOTO BY LAUREN FINNEGAN, APG NEWS
Local firefighters and veterans, (left to right), Bruce Strong, Andy Whaley, Dave Winchester, and Lt. Col. Strauss (not pictured) spoke about their selfless service at the Abingdon Fire House.



Disability Awareness Month recognized on APG

APG Garrison Commander, Col. Davis, and Lt. Col. Maria Angeles, Deputy Commander for Health Readiness, raise their sword for the cake cutting Oct. 4, 2016, signifying the start of APG Disability Employment Awareness Month. Angeles said that "the month is about workplaces welcoming the talents of all people, including people with disabilities. She continued, "They are a critical part of our effort to build an inclusive community and a strong economy."

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

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STREET TALK

October is National Field Trip Month. What was your favorite field trip?

When I lived in Colorado, my school visited a farm. I got to jump in hay and see chickens, cows and plants.



Tristan Malave, 8

My favorite field trip was visiting the Ashland Nature Center[in Delaware] with the youth center. We got to catch fish with a net, see different kinds of animals and go hiking.



Kemper Natt, 8

My favorite field trip was visiting a farm. It was interesting to see how hard the farmers work and how they care for the animals. That is something you don't get to see very often. Also, I got to milk a cow.



Symone Parker, 14

This summer the youth center took us on a Spirit of Baltimore lunch cruise. The food was really good.



Rachel Thomas, 11

A few years ago I went to Dutch Wonderland, an amusement park in Pennsylvania, with the youth center. I liked riding the roller coasters and everyone was friendly.



Rodney Williams, 13

Replace smoke alarms every 10 years

Smoke alarms only save lives when they work properly

APG FIRE DEPARTMENT

Does your home have a smoke alarm? According to the National Fire Protection Association, or NFPA, the answer is likely yes. NFPA research shows that most American homes have at least one. But do you know how old your smoke alarms are? If you're like most people, you're probably not so sure.

A recent survey conducted by NFPA revealed that only a small percentage of people know how old their smoke alarms are, or how often they need to be replaced. That lack of awareness is a concern for the Aberdeen Proving Ground Fire Department and NFPA, along with fire departments throughout the country, because smoke alarms don't last forever.

Smoke alarms can have a life-saving impact – but only if they're working properly. Fire officials remind citizens that smoke

alarms do not last forever; they should be replaced at least every 10 years.

Because the public is generally unaware of this requirement, many homes have smoke alarms past their expiration date, putting people at increased risk.

As the official sponsor of Fire Prevention Week for more than 90 years, NFPA is promoting this year's Fire Prevention Week campaign, "Don't Wait - Check the Date! Replace Smoke Alarms Every 10 Years," to better educate the public about the critical importance of knowing how old their smoke alarms are and replacing them once they're 10 years old. Fire Prevention Week is Oct. 9-15.

For more than 80 consecutive years, the President of the United States has signed a proclamation for Fire Prevention Week, signaling national support of fire departments as they teach fire safety in their communities. This year is no different. On Oct. 7, President Barack Obama signed a proclamation, officially declaring Oct. 9-15 National Fire Prevention Week. He reminded all Americans to check the date of their smoke alarms and replace them if out of date.

"During Fire Prevention Week, we also pause to honor our first responders and firefighters, including those who have sacrificed their own lives to save the lives of people they had never met," Obama wrote in the proclamation. "Let us salute them and pay tribute to all firefighters whose bravery, sense of duty, and love of country make our nation a stronger, safer place."

Don't Wait – Check the Date!

To find out how old your smoke alarm is and its expiration date, simply look on the back of the alarm where the date of manufacture is marked. The smoke alarm should be replaced 10 years from that date; not the date of purchase. The APG Fire Department also says smoke alarms should be tested monthly, and that batteries should be replaced once a year or when they begin to chirp, signaling that they're running low.

For more information about smoke alarms and this year's Fire Prevention Week campaign, "Don't Wait: Check the Date! Replace Smoke Alarms Every 10 Years," visit www.firepreventionweek.org.

Domestic Violence Awareness Month

FAMILY ADVOCACY PROGRAM

The Family Advocacy Program at APG assists individuals involved in family violence by ensuring the safety of the victim, providing support and service linkage to installation and community resources.

The program provides 24/7 seamless coverage by a professional advocate ready to address questions and concerns regarding domestic violence. The advocate may also assist with accompaniments to various appointments where advocacy or support is needed, crisis intervention, and safety planning, applying for subsidies, assistance with Protective Orders and educating the victim on the dynamics of domestic violence. The advocate plays an intricate role in assuring the victims' rights are protected.

What is domestic violence?

Domestic Violence is the intentional injury and/or pattern of intentional acts that affect the psychological and physical well-being, safety and security of an intimate partner. Domestic abuse essentially involves the misuse of power and exercise of control by one person over another with whom there is or has been an intimate relationship.

Types of domestic abuse

Verbal Abuse occurs when one person uses words and body language to inappropriately criticize another person. Verbal abuse often involves 'putdowns' and name-calling intended to make the victim feel they are not worthy of love or respect, and that they do not have ability or talent.

Psychological Abuse (also known as mental abuse or emotional abuse) occurs when one person controls information available to another person so as to

manipulate that person's sense of reality; what is acceptable and what is not acceptable. Psychological abuse often contains strong emotionally manipulative content designed to force the victim to comply with the abuser's wishes. It may be emotional abuse in this sense when it is designed to cause emotional pain to victims or to "mess with their heads" in attempts to gain compliance and counter any resistance.

Financial abuse can take many forms, from denying you all access to funds, to making you solely responsible for all finances while handling money irresponsibly him/herself. Money becomes a tool by which the abuser can further control the victim, ensuring financial dependence on

the abuser, or shifting the responsibility of keeping a roof over the family's head onto the victim while simultaneously denying your ability to do so or obstructing you.

Who to call for help

APG Family Advocacy Program Manager Antionetta "Toni" Saunders-Gauth can be reached at 410-278-7478. Additional services can be utilized by calling the National Domestic Violence Hotline at 1-800-799-7233 or Military One Source at 1-800-342-9647. For more information on resources in Maryland, visit the Maryland Network Against Domestic Violence at <http://mnavd.org/index.html>.

See Something

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

Provided by the INTEL DIV/DPTMS

Say Something

APG NEWS

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Military spouse receives educational grant

Financial aid to support APG spouse's nursing degree

By **RACHEL PONDER**
APG News

An APG military spouse recently received financial relief in the form of a \$5,000 educational grant from the Corvias Foundation, the charitable arm of the Corvias Group, which also manages Corvias Military Living.

Caroline Eaton, the wife of Capt. Dodger Eaton, of the U.S. Army Test and Evaluation Command, is currently enrolled in a 15-month accelerated nursing program at Harford Community College. The grant she received from the Corvias Foundation covers most of her educational expenses.

While Eaton is eager to begin a career in nursing, she didn't take the decision to go back to school lightly.

"I knew it would be an intensive program, and they don't recommend working [while you are in the program]," she said. "It was a big decision."

According to Eaton, although she holds a bachelor's degree in public health from the University of Washington, frequent moves as a military spouse made it difficult for her to progress in her career.

After doing some research, she decided obtaining an associate degree in an in-demand field like nursing would make her more marketable.

"I am hoping that I can pair this nursing degree with my public health degree and find [a job] that is somewhere in between the two," she said.

Eaton added that one of her goals after graduation is to provide quality health education to individuals living in low-income areas.

"That is my passion," she said.

Eaton's other interest is community service. She has served as a Family Readiness Group leader, a girl's lacrosse coach and a Make-A-Wish Foundation volunteer.

"Being able to serve the community is rewarding," she said. "It is something I would like to do in my career as well."

Applying for grants and scholarships

Capt. Dodger Eaton said he is thankful for the grant, because it will help his wife achieve her professional goals.

"No matter how many friends we have had to say goodbye to, she has always maintained a positive attitude. Her strength is truly the foundation of our family," he said. "With that said, I know for a fact that my wife is not the only exception. There are plenty of military spouses that sacrifice career opportunities for their military serv-



COURTESY PHOTO

APG military spouse Caroline Eaton, the recent recipient of a Corvias Foundation grant, poses with her husband, Capt. Dodger Eaton, from the U.S. Army Test and Evaluation Command, and their dog Koufax.

ice member. This grant will allow Caroline to continue her work within our military community as a registered nurse."

Caroline Eaton called the grant a "huge benefit" and encouraged other military family members to apply for grants and scholarships.

"I definitely recommend it, all in all, you put a little bit of effort in to apply for it, and in the end it's totally worth it," she said. "I can't stress enough how wonderful its been to have relief of that financial stress, and how much of a difference it has made to be able to focus solely on school."

About the Corvias Foundation

This year, Corvias Foundation has awarded 20 educational grants totaling \$100,000 to the spouses of active-duty service members.

Since 2006, the Foundation has awarded \$1,102,500 in educational grants to 223 military spouses. Scholarship opportunities are also available to military spouses and children. For more information, visit <http://corviasfoundation.org/>.



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ALL THINGS MARYLAND

Legends of the Fog

BY LAUREN FINNEGAN
APG News

Most families find themselves drawn to traditional fall favorites like apple picking, or pumpkin carving, but down a winding path in Aberdeen, there is a family unlike any other. This "family" is made up of zombies, demons, and ghouls who come together for one common purpose every autumn; to terrorize the citizens of Harford County.

This undead motley crew is made up of the staff and volunteers who make Legends of the Fog, a haunted attraction in its tenth season, a reality.

Owned and run by the Barberry family, the idea for Legends grew from Vice President and General Manager Patrick Barberry's desire to create a haunted hayride on the family farm. With his father Mike Barberry on board, the family began transforming the property into the scream inspiring attraction it is today.

Originally sod farmers, the Barberrys never could have imagined that scaring people would become their area of expertise.

"The things that we did and got in trouble for when we were teenagers, we do ... now and get paid for it," said Mike Barberry, now president of the attraction.

While most people only see the haunted attraction with the lights off, a behind-the-scenes tour (that is terrifying even with the lights on) provides a glimpse of all the pieces that come together to give customers what they expect each night: a horrifying experience that will stay with them long after the haunt is over.

On any given night, about 120 to 150 actors haunt the various sets that make up the attraction: the Farewell Hotel, Sinister Circus, the Haunted Hayride, and the Cornstalkers Maze.

Around 4 p.m. on the day of a show, the all-volunteer cast makes their way to the actor's shed to have their makeup applied by one of the artists on staff.

While there are a few professional artists, many have learned moulage – the art of applying mock injuries – through informal apprenticeships. They use their skills to help turn dozens of ordinary people into terrifying creatures.

With more than 100 actors requiring assistance to transform themselves into the things nightmares are made of, the attraction has become a place for volunteers to receive valuable training and hands-on experience.

Dan Boehm, a Legends of the Fog moulage artist, and an Aberdeen Proving Ground health education specialist, for example, [see "Army civilian brings zombies to life," Page A5], is responsible for many of the most intricate faces. He typically applies makeup to about 12 actors each night.

Kaitlyn Marpo, a volunteer actor and theater major at Harford Community College, said she uses the attraction to practice and perfect her craft. She said four years of working on the set has taught her how to develop a character to get the desired reaction from customers, which is a valuable skill for her stage work as well.

While Legends of the Fog is a great place for on-the-job training, some of the volunteers keep coming back because of their passion for the haunt.

Faith Billings, a medical assistant by day

Haunted attraction still producing screams in 10th year



The headless lady is one of the spooky sights visitors will encounter as they attempt to find their way out of the Farewell Hotel at Legends of the Fog in Aberdeen, Md.

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

and zombie by night, has volunteered there six years. She said she keeps coming back because, "it's a home away from home."

"Everybody has always told you that if you find what you love to do, you'll never work a day in your life," she said. "This is it."

Though the attraction only runs for approximately two months, the staff is constantly planning bigger and better scares for future seasons, as well as researching the latest haunt technologies at trade shows that attract trade professionals from the likes of Disney and Universal Studios.

Trade shows give the Barberrys and their crew members the opportunity to see what other haunts around the world are doing.

Every year they incorporate more scares, so that their customers continue to return for new surprises.

Their most recent purchase stands nine feet tall, and has a 12-foot reach. It will be a terrifying surprise for visitors.

Even the tiniest details, which most visitors, while running scared through the haunt won't even notice, are thought out so that the sets look authentic.

While approaching the first stop of the attraction, the Farewell Hotel, attendees will come upon a structure that looks like a bed

and breakfast that has seen better days. Every mark, hole or dent on the structure was intentionally made by Barberry to give it a genuine look.

What visitors don't realize at first is that this is all a façade. After entering what looks like a creepy hotel, they'll be faced with the challenge of navigating their way through what is actually a large metal agricultural building.

To make sure everything at Legends looks authentic, Barberry regularly visits second hand stores to find props for his sets. He prides himself as a master at taking something most people would have no use for and turning it into something that's ideal for the show.

Barberry said he transformed, an old darkroom door, now obsolete in the age of digital photography, into a revolving entryway for actors to disappear and reappear as frightened patrons walk through.

Barberry is a perfectionist when it comes to his sets. He said, "We are our own worst critics. If we don't like it, we know you won't... I need to make it where I'm impressed."

Sarah Hawman, the manager for the Farewell Hotel for the last five years,

explained that much of the props and details they make themselves. They have full control of everything from the color to the size of the props. That dedication to detail goes all the way down to the latex poop that is made for the bathroom scene within the hotel.

While putting on the best haunt possible is of utmost importance to the Legends staff, so is giving back to the community.

They have partnered with several charity groups since their inception, and they continue to give to organizations such as the Harford County Humane Society and the Ronald McDonald House.

Harford County deputy cadets help with parking at the site, while also learning valuable skills such as traffic and crowd control. In addition, local organizations partner with the site to host fundraisers.

When the lights finally come on and the makeup is wiped away, the cast relaxes over pizza and then brainstorm about ways to step up the fear factor for their guests.

According to the volunteers, a successful night at Legends of the Fog can be measured in two ways: the amount of fun everyone's having, and the amount of screams that can be heard floating through the air. And they wouldn't have it any other way.



Mike Barberry, owner and president of Legends of the Fog, explains how some of the effects within the Farewell Hotel work. To find out what happens in the library, visitors will have to "check in" at the hotel themselves.

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

Army civilian brings zombies to life

BY LAUREN FINNEGAN
APG News

ABERDEEN, Md. - Decaying blood, putrefying pustules, and frightful skin lesions have their own shades of red within the makeup kit of Dan Boehm. What type of makeup artist would need a shade of red specifically for aged, rotting blood? A professional moulage artist who brings zombies and demons to life at Harford County's haunting attraction Legends of the Fog.

Boehm, a field medical education specialist with the U.S. Army Medical Research Institute of Chemical Defense, or MRICD, was first introduced to moulage in 1994 while training to become an Army Medical Specialist. He continued his training in healthcare simulation through multiple college level certification programs.

While his training wasn't specifically geared toward preparing Soldiers for a potential zombie apocalypse, his skills did make it possible for service members to train for real-life disaster, medical, and combat situations. The injuries that Boehm can create through the use of makeup and prosthetics reproduces what Soldiers might encounter in the field. Boehm is still heavily involved in this form of moulage, and has participated in many simulations on APG. Since 2011, he has also used his skills to generate scares as well.

Boehm started volunteering at Legends of the Fog with his two children, who were eager to act at the attraction.

He said he decided that since he was already there, "why not see if they needed some assistance with their makeup."

Since then, he's been a central part of producing the screams that can be heard throughout the attraction. And, he's taken his skills on the road to work on large zombie runs throughout the country, such as "The Walking Dead Experience," an immersive attraction that puts participants in the middle of zombie-infested locations.

On weekends during the fall, however, Boehm can be found in the actor's shed, a staging ground for the cast and crew of Legends of the Fog.

After setting up his supplies, he starts working on the most challenging faces at about 5 p.m. This includes applying multiple layers of makeup to bring the undead to life. Those layers can include veining, a buildup of rotting flesh, the creation of eye bags, red irritation, and airbrushing paints for that perfect zombie color.

Boehm is also skilled in producing prosthetics for his customers. After studying photos of specific injuries, he will assemble a mold out of clay to produce the latex prosthetics that will be used for "lacerations, zombie bites, and zombie pox."

While Boehm says he makes "a little bit of everything," he added that "his favorite, most detailed piece is a large reusable full chest and abdomen prosthetic."

Boehm's two children, Danny and Clarissa, assist their dad with the makeup



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

Dan Boehm, a field medical education specialist on APG, and a professional moulage artist, applies makeup to Kaitlyn Marpoe, in order to turn her into the undead voodoo priestess she plays at Legends of the Fog.

"I have a large network of friends that I'm happy to support when needed."

Dan Boehm, field medical education specialist, U.S. Army Medical Research Institute of Chemical Defense

applications.

On a recent night at Legends, Boehm and his daughter were working side by side to get the cast ready, while his son has worked with him on zombie runs around the country.

Danny Boehm said because he has been around this for so long, it no longer phases him.

"The weirdest thing is how desensitized I am to it all... all the blood and gore. It's kind of normal, and not... freaky anymore."

Boehm senior also uses his talent to give back to the community.

"I have a large network of friends that I'm happy to support when needed," he said, adding that those friends include local Boy Scouts troops that he's helped during first aid training by bringing the injuries they may see in real-world situa-



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

After approximately 45 minutes in the makeup chair, Kaitlyn Marpoe's transformation is complete.

tions come to life. He's also assisted Harford County emergency responders during county level disaster drills.

While most of the projects he works on incorporate health care simulation, rather than the creation of zombies, Boehm said

he has "a great time working with the 'Fog Family,' creating a host of characters."

Those characters can be found lurking around every corner, and terrifying people each night this season at Legends of the Fog.

ASAP hosts suicide prevention workshop

BY YVONNE JOHNSON
APG News

Soldiers and civilians from APG and organizations in neighboring states came together to confront a common cause the week of Sept. 26-30, as the APG Army Substance Abuse Program, ASAP, hosted an applied suicide intervention skills workshop at the main post chapel.

Known as ASIST T4T (Training For Trainers), the course trains people with existing teaching, presentation, or leadership experience to conduct two-day ASIST workshops in accordance with Army training requirements. Lamont Coger, ASAP suicide prevention manager, organized the event and personnel from LivingWorks, a suicide intervention training company conducted the training.

LivingWorks chaplain and training coach Richard Smothers said that with ASIST T4T people learn how to be trainers while sharing intervention information with their coworkers or fellow Soldiers.

"[ASIST T4T] gives actionable, real-world experience that ensures personnel are trained and aware and can go out and focus on making our communities stronger," he said.

"The challenge is understanding that the commitment of what they are taking on is significant," added Trainer Timothy Jansen from Riverdale, Maryland. "You must be all in."

Proving assistance was Army Reserve Sgt. Maj. Maneasseaha Bartimus of the Military Intelligence Readiness Command at Fort Belvoir, Virginia.

"ASIST T4T trains E-5 [sergeants] and above, who are in contact with Soldiers on a daily basis and who are in place to identify risk factors up front," she said. "If you can notice things like changes in attitude or behavior in time, then you can save a Soldier's life."

Attendees expressed enthusiasm and appreciation for the goal of the program as well as the instructions they received.

"It kept us engaged and wanting more," said Sgt. 1st Class Rosalba Rodriguez of the U.S. Army Public Health Center (Provisional). "This was one of the best workshops I ever attended. Suicide is a very sensitive subject for me. I came here to learn more to help Soldiers. This [training] really gives me hope that maybe I can make a difference."



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

From left, Sgt. 1st Class Rosalba Rodriguez of the Army Public Health Center (Provisional), listens in as Chaplain Richard Smothers, a training coach with LivingWorks, makes a discussion point, along with Staff Sgt. Cornelius Penn of the Aberdeen Test Center and Delaware Army National Guard Chaplain Maj. Andy Werner during the Training For Trainers Suicide Prevention workshop at the main post chapel Sept. 30, 2016.

Chaplain Maj. Andy Werner, a fulltime support chaplain with the Delaware National Guard and drill chaplain with the 261st Tier Tactical Signal Brigade, said the workshop was the first leg of his training as a suicide prevention manager.

"In or outside the military this is a prevalent issue for our culture at this time," Werner said. "I gained a lot of knowledge and I feel better able to assist the state manager."

Lori Wohr, a civilian with the U.S. Army Materiel Systems Analysis Activity said she also gained confidence and plans to pursue certification. Already involved in community wellness, Wohr said she feels she now has the tools to become even more involved.

"I am absolutely looking forward to using this knowledge," she said.

Staff Sgt. Aaron Stracke, of the U.S. Army Test and Evaluation Command, said that for him the training cleared up a lot of

unanswered questions. Stracke said he lost his father and fellow Soldiers to suicide. When he heard about the training through an email from his sergeant major endorsing the program, he decided to put in for it.

"I wanted to know what came after ACE [Ask, Care, Escort military training]," he said. "Now I feel more informed. The biggest takeaway is helping the person at risk realize their own turning point. This gives the person tools to overcome."

Why We Serve

Omololu takes pride in serving those who serve

By MARY B. GRIMES
CECOM

ABERDEEN PROVING GROUND, Md. – “Public service must be more than doing a job efficiently and honestly. It must be a complete dedication to the people and to the nation.”

For Ayodeji Omololu, senior command synchronization officer, G3, of the U.S. Army Communications-Electronics Command, or CECOM, this quote by the late Margaret Chase Smith, a former U.S. Senator from Maine, echoes his sentiments regarding why he has committed his life to serving the nation - in and out of uniform.

The son of Nigerian-born parents, Omololu and his family immigrated to the United States from Nigeria while he was still a teen. It was a journey marked with endless hopes and aspirations, and has ever since given rise to an admirable level of determination.

Inspired by others, but driven by his own pursuit of excellence, Omololu continues to embrace every opportunity that comes his way. A U.S. Navy veteran, he served proudly for nearly 10 years - mastering his skills as a surface warfare supply keeper.

“I joined the Navy to serve my country and explore new possibilities,” he said. “I was also inspired by the exemplary attitude of my neighbors who had enlisted in the U.S. Marine Corp, U.S. Air Force, and the U.S. Army.

“The military helped in molding me to become a true professional,” Omololu added, as he continued to reflect on his military life and experiences. “It also helped in the creation of an individual with a high sense of honor, courage, and commitment to accomplish a mission.”

Asked if there was ever an assignment that truly impacted his life, Omololu said his deployment to Afghanistan in 2013, as part of the NETZERO Department of Defense initiative was a profoundly rewarding experience. It was during that tour that Omololu was involved in the design and implementation of strategic decisions needed to make Soldiers the most efficient force on the battlefield.

Now, with 18 years of civil service to his credit, CECOM’s senior command synchronization officer continues to press forward with his goal of giving back to a system and a nation that has in his view, afforded him a wealth of opportunities.

“The most challenging part of my job is brokering communication lanes between the sustainment and product-development teams in the Command, Control, Communications, Computers, Intelli-

gence, Surveillance and Reconnaissance [C4ISR] community,” he said. “I serve because I want to make a positive impact on the lives of the men and women who do so much for our great country in order to ensure our freedom.”

Asked what type of ingredients his personal recipe for successful and or selfless service would consist of, Omololu responded, “My recipe would consist of honor, courage and commitment. Having honor means you will always choose the right path or option when faced with adversity. Courage means you will live by the oath of the office. Commitment denotes you are not willing to quit as a trusted member of the professional team.”

Regardless of his challenges and achievements, Omololu does not want anyone to think that he did it all on his own.

“General Colin Powell’s leadership greatness has always inspired me, he said while remarking on Powell’s “modest beginnings as a kid growing up on the streets of South Bronx, New York and rising through the ranks to become the first African-American to serve as the Chairman of the Joint Chiefs of Staff. His



U.S. ARMY PHOTOS

Ayodeji Omololu, CECOM

creed that a true leader will always seek information on organizational attitude, and morale from the lowest ranking members of the team, resonates with me every day.”

While it is clear that fellow service members and his colleagues have played an integral part in his career choices, and his work ethic, Omololu is determined to

give back, to gladly serve those who have not only been instrumental in steering him toward success, but have been unwavering in the fight for freedom and democracy for Americans everywhere.

“My goal is to leave a legacy as a selfless professional who was guided by the creed of honor, courage and commitment,” he said. “This is why I serve.”



Renee Ullman and Ayodeji Omololu of the U.S. Army Communications-Electronics Command or CECOM, Public Affairs Office, discuss changes in daily distribution and operational procedures.



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

Riders exit the staging area onto Aberdeen Boulevard on the outset of the Bike For Breast Cancer ride; an 11.5-mile ride around the installation to promote breast cancer awareness, Oct. 5, 2016.

Breast cancer focus of annual cycling event

BIKE RIDE, From page 1

comed the riders, thanked them for promoting awareness and praised their participation.

"You're making a personal sacrifice to look out for your health and I applaud each one of you," she said. She extended special thanks to supporters and vendors and to Sauer for organizing the event.

"It's all about awareness," she said. "Thank you for what you do every day to keep us aware."

Prior to the ride, breast cancer survivor Erica Akers, shared her medical experience from a patient perspective. And, a group of riders, led by Michael Kauzlarich of the Edgewood Chemical Biological Center, rode from APG South (Edgewood), to join the ride.

Breast cancer is the most commonly diagnosed cancer among female Marylanders. According to the American Cancer Society, in 2013, it killed 40,860 women and 464 men in the United States alone.

Participants said with numbers like that it makes sense to do their part to raise awareness.

"This is our first group ride, and our first event to support the cause," said Bill Mullis of ATEC's Aberdeen Test Center while him and his wife, Brenda, waited for the ride to start.

"We ride all the time so this made sense for us," said Laura Wiczorkowski of CERDEC as she waited at the starting point with friends.

Pfc. James Taylor, a KUSAHC preventive medicine specialist, answered questions at an environmental health display with Nurse Sue Singh. Taylor said it's all about education.

"We try to outreach and prevent through education," he said. "The more informed you are, the better you can prevent diseases."

ATEC Executive Officer Judy Matthews, also offered a display on early detection and prevention. A breast cancer survivor, Matthews has volunteered with the Johns Hopkins Breast Cancer Center since 1984. She said support channels are necessary parts of handling the disease.

"It's very important to network to get support from others," she said. "There's more awareness today because you're hearing

more about prevention and we need to keep that up."

Breast Cancer info-session

On Oct. 6, the Communications-Electronics Command hosted a Breast Cancer Awareness info-session led by Dr. Atsuko Okabe at the Myer Auditorium. Okabe's presentation focused on contributing factors placing those most at-risk.

She said paying attention to lifestyles and making the commitment to live healthier will positively impact and lower incidents of breast cancer.

"Exercise is the most important thing we can do for ourselves," she said, adding that obesity, alcohol consumption, smoking, and diet, as well as exercise, are all risk factors.

Okabe said ongoing research has shown that while Caucasians are more likely than African-Americans to get breast cancer, African-Americans have a greater incidence of more aggressive breast cancers. Asians are at lower risk.

"The large cancer centers are looking at this, starting in Africa," she said.

Attendees said they learned something new.

Shirley Margan, a human resources specialist with the CHRA-North Central Region, said both of her parents battled cancer.

"I was surprised, I knew alcohol and smoking weren't good for you but I didn't know they were contributors to breast cancer," she said.

Doretha Townsel, also of CHRA NC, said the session reaffirmed some things she already knew.

"The most important take-away is self-exams and check-ups," she said. "It's all about prevention."

National Mammography Day

The third Friday in October each year is National Mammography Day, first proclaimed in 1993. On this day, or throughout the month, women are encouraged to make a mammography appointment. In 2016, National Mammography Day will be celebrated Oct. 21.



Bill Mullis, with the Aberdeen Test Center and his wife, Brenda, wait to start their first Bike For Breast Cancer ride around Aberdeen Proving Ground Oct. 5, 2016.

Firefighters call fellow volunteers a brotherhood

FIREFIGHTERS, From page 1

was something they had to do.

Bruce Strong, a member of the Air National Guard and a dual status technician joined the fire service when he was 16. Serving people through some capacity has always been a part of who he is. After volunteering with the fire department for a year and a half, he joined the Air Force and transitioned into the Air National Guard three years later. He also served as a policeman with the Washington, D.C. Police Department for six and a half years. But it wasn't until several years later that Strong started to get an "itch" to get back on a fire truck.

"You see a piece of equipment running down the street, and you want to get home, and you want to find out where they were going. When you love it and it's gone, you miss it, and I've found my way back," Strong said.

Lt. Col. Jeff Strauss, a senior acquisition officer with the Survivability Evaluation Directorate, U.S. Army Test and Evaluation Command, or ATEC, has been in the military for 16 years, but also just recently returned to the fire service. He began volunteering as a part of the Explorers Program when he was 16, and continued until he went to college.

When he arrived at APG after three deployments and settled into a lower tempo job, Strauss said he missed the action of his past positions.

"You crave that little bit of an adrenaline rush, a little bit of excitement, instead of a nine-to-five job," he said.

Strauss found the Abingdon Fire Company website, and clicked the "Volunteer Today" link. He started helping around the station, until he completed 105 hours of training needed to ride the truck.

Some might question how someone with a

40-hour-a-week job, a wife and three children, who volunteers as a youth football league coach, can carve out 105 hours to train as a volunteer. Strauss said it's because he has a passion for his work.

"The best part about it is to just be there for your fellow humans," he said. "Nobody calls 911 because they're having a great day. That person, that family, that's probably the worst day of their life. To come in to be of some service to them, however little it can be, is value added."

Strauss wants to make it clear, however, that his service isn't 100 percent selfless.

"What kid doesn't like to play with fire trucks? We don't just outgrow that when we're 40," he smiled.

Andy Whaley, a civil engineer currently serving with the Army Reserve, had two words to say, "Who else?"

"If these volunteers don't choose to answer the call, who is going to be there when an emergency hits?"

The hard days

While they gain satisfaction from knowing that what they're doing matters, it doesn't make the tough days they face any easier. Dave Winchester, a former Marine, current field instructor for the University of Maryland fire rescue institute, and a 44-year veteran of the fire service, said that he doesn't talk about some of the tough things that he sees.

"That's why, particularly today, I don't care to go on any other crashes," he said. "I'm tired of seeing destruction. Someone is at fault, someone did this. It's almost like an anger when you see something that could have been prevented."

Winchester said he has been trying to prepare his son, who joined the fire service as a cadet two years ago, for all of the things he

might encounter on the job.

The bravery that these men show every day when they hear that siren go off is astounding. But it isn't running into a burning house that scares them the most, it's responding to accidents on I-95.

"Where I'm concerned and what scares the hell out of me is the number of us that are getting run over on the highway," Winchester said. "This is speaking about the fire service in general across the country. You go out on 95, and you've got people who are not paying attention. They run barricades, they run through cones, they hit firefighters, E.M.S., police. They're killing them."

According to the U.S. Fire Administration's Emergency Vehicle Safety Initiative report from February 2014, firefighters are more likely to be severely injured or killed in a motor-vehicle related incident than fighting a fire. The same is true for law enforcement officers as well as E.M.S. It is an epidemic that somehow the public knows little about.

"I could stand in a burning room all day long, but 95, they don't give you a break," Strauss agreed. "I am more scared on 95 than I am anywhere else."

Their families

With all the danger that these men willingly face as well as the time that they take away from their families to protect the community, you have to wonder the effect that this job has on their loved ones.

Winchester said that he has been married for more than 30 years, so his wife "must be OK with it." He knows that she has tolerated a lot, and is grateful for that. Not only does she support him on the volunteer runs he makes on the fire truck, but she has been there for him throughout many deployments, including one for Desert Storm.

He said the way that he sees it is that "you are being asked to respond to somebody who's having the worst day of their life, compared to what you are leaving. You put it all in perspective."

Whaley said that he tries to "not just focus on specific moments, like sitting down for Christmas dinner." Any time with his family is just as special, whether it's taking his kids to the park or having a family movie night.

Lasting friendships

Besides the satisfaction that these men get from helping their community, they also get something else from volunteering: a second family.

Strauss explained the bond that he has with his fellow fireman as the same type of bond that Soldiers have with their platoons.

"I will never forget that guy that I went into that house fire with," or the guys "that rode on the same Humvee for four days from Kuwait to Baghdad. Those guys I'll always be friends with," he said.

It's those shared experiences that will always connect these men and the talks they have about what they witnessed on that last call that brings them together. "It's a cliché but it's not," Strong added. "We're a brotherhood and a sisterhood, we're family."

The need for volunteers

That family is always looking for more members to add to its ranks, as the need for volunteers is always there.

"Even if you're not sure if you want to volunteer, go down to your local fire company and check it out," Strauss said. "You don't have to ride. You can support your local volunteer firefighting companies in many other roles. All you have to do is reach out."

MARK YOUR CALENDAR

EVENTS & TOWN HALLS

STRIKE OUT DOMESTIC VIOLENCE BOWLING NIGHT

OCTOBER 17, 24, 31
APG Bowling Center. 5:30 p.m. Bowling event in observance of Domestic Violence Awareness Month. For more information, contact Antoinette Saunders Gauth at 410-278-7874 or antionetta.m.saunders-gauth.civ@mail.mil.

GARRISON TOWN HALL

OCTOBER 20
APG North (Aberdeen) recreation center, 10 to 11:30 a.m. Questions for the commander can be submitted in advance to Lisa McClure at lisa.a.mcclure.civ@mail.mil.

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.

MEETINGS & CONFERENCES

FALL TECHNOLOGY EXPO

OCTOBER 19
APG North (Aberdeen) recreation center. 9:30 a.m. to 1:30 p.m. To feature the latest in information technology all in one place. Open to all DOD, government and contract personnel with gate access. Refreshments will be served.

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

DEATH NOTICE

Anyone with debts owed to or due to the estate of Staff Sgt. Austin Kleemeier must contact Col. Franz Conway, the Summary Court Martial Officer for the Soldier. Kleemeier passed away on Sept. 22, 2016. Conway can be reached at 410-322-1623 or franz.j.conway.mil@mail.mil.

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.

HEALTH & RESILIENCY

CPR & AED TRAINING

OCTOBER 20
MFRI North East Regional Training Center (near Wise Road gate), Room 205. 9 a.m. and 1 p.m. Open to all. For more information, contact Mike Slayman at 410-306-0566.

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
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. For more information contact Tiffany Grimes at 443-861-7901 or tiffany.l.grimes.civ@mail.mil.

ANNOUNCEMENTS & MISCELLANEOUS

COMMISSARY HOURS CHANGE

STARTING OCTOBER 2
The APG Commissary will alter its hours of operations on Sunday, opening an hour earlier at 10 a.m. starting Sunday, Oct. 2. For more information, call 410-278-3101.

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.

CHAPEL SERVICES UPDATE

Catholic Service --- The APG Chapel offers an array of Catholic Services and Religious and Faith Formation Programs open to all Soldiers, Families, DOD and contract workers residing on both APG and APG South and retirees residing in the surrounding area, including: RCIA, classes for Grades Pre-K - High School, an active Youth Group, Adult Faith Formation, Baptism and Marriage Prep classes. Schedules are available at the APG Chapel. For more information, contact Jeanne

Colopietro at 443-243-2861 or teamcolo@msn.com
Protestant Service --- The APG Chapel has many opportunities to get involved with Worship Services and Chapel Programs. Worship Services are every Sunday at 10:15 a.m. and noon at APG Main Post Chapel and 0915 at APG South Chapel. Kids Programs, Adult Sunday School, Choir Ministry, Youth Ministry, Women's Programs and Men's Ministry are all in full swing this fall. Schedules are available at the Main Post Chapel. For more information, contact Joyce Wood at 410-278-4333 or joyce.l.wood.civ@mail.mil or contact Chaplain Capt. Jonathan Ginder at 278-2504 or jonathan.l.ginder.mil@mail.mil.

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.

RETIRING SOON? UNCLE SAM WANTS TO THANK YOU!

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

FIREWOOD AVAILABLE FOR SALE

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

MORALE, WELFARE & RECREATION



Upcoming Activities

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

SAVE THE DATE

NEWCOMERS ORIENTATION

OCTOBER 25
APG North (Aberdeen) recreation center, 1 to 3 p.m. Session will have special emphasis on volunteer opportunities at APG. Garrison briefing begins at 1:25. Information from installation and community resources will be available. For more information, contact Jennifer Eichner at 410-278-2500.

SAM'S CLUB MEMBERSHIP SIGNUPS

OCTOBER 25-26
Exton Golf Course, 11 a.m. to 1 p.m. on Oct. 25; APG North Bowling Center, 11 a.m. to 1 p.m. on Oct. 26. New and renewal memberships accepted. Special discounts available. For more information, contact Patricia Harkins at 410-436-4667 or patricia.e.harkins.naf@mail.mil.

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.

NEW YORK CITY BUS TRIP

DECEMBER 10
Hosted by Civilian Welfare Fund. Cost is \$51, includes round-trip coach to and from the city. Bus leaves APG North theater at 6 a.m. and the Beards Hill Plaza at 6:10 a.m.; Return trip departs New York City at 5:45 p.m. to arrive at APG around 10 p.m. Call 410-436-4667 to reserve seats; trip sells out quickly.

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.

CINDERELLA DISCOUNT TICKETS

NOVEMBER 6
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

MONDAYS & WEDNESDAYS
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.

CHILD & YOUTH SERVICES

FAMILY MOVIE NIGHT

OCTOBER 21
APG South (Edgewood) recreation center. 6 p.m. "DC SuperHero Girls." Free movie, giveaway, snacks, and craft activity. For more information, call 410-278-4011.

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.

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.

SPORTS & RECREATION

RUGGLES 50TH ANNIVERSARY TOURNAMENT

OCTOBER 19
Ruggles Golf Course, 7:30 a.m. registration. Shotgun start at 9 a.m. Lunch to follow completion of play. \$45 for annual green fee holders; \$60 for non-annual. Includes golf, range and lunch. For more information, call

410-278-4794.

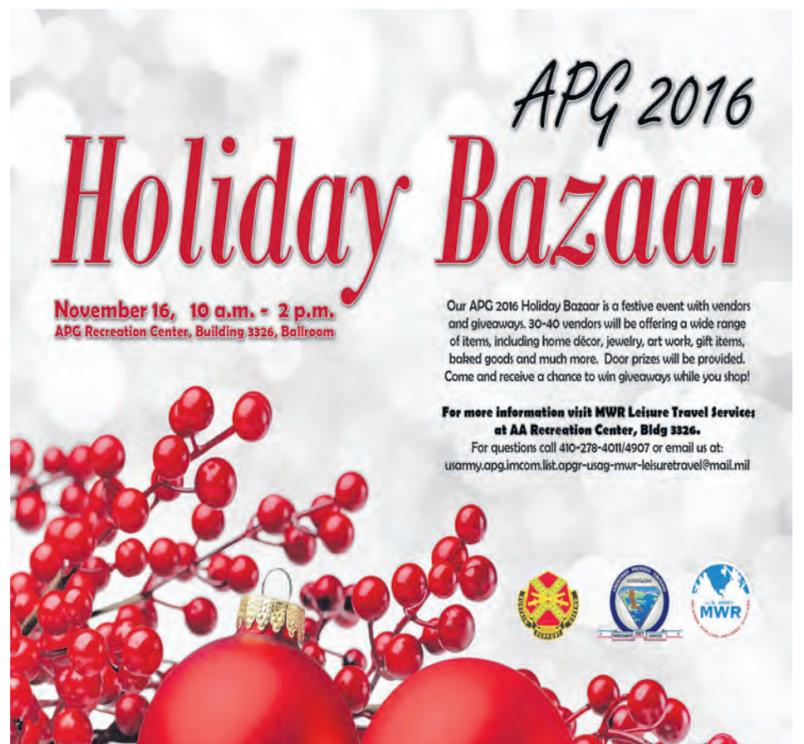
ARMY COMMUNITY SERVICE

IDENTITY THEFT PREVENTION

OCTOBER 20
Bldg. 2503 11:30 a.m. to 12:30 p.m. Session explores identity theft, how to deter, detect and defend against it. For more information, or to reserve a seat, contact Leary Henry at leary.g.henry.civ@mail.mil or 410-278-2453.

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.



inside

LEADERSHIP

ARL names its new senior campaign scientist for materials research, Dr. William Benard, who will help streamline efforts addressing the future Army's complex operational environment and core competencies.

Lab | B2

CHANGE

According to the Army Chief of Staff Gen. Mark A. Milley, unprecedented and fundamental changes await the Army as it eyes 2020, 2030 and beyond – from new battlefields to operating without supervision.

Cusp | B4

ACCOMPLISHMENT

An engineering psychologist with ARL at Fort Bliss, Texas, with an interest in military history eyes the impact of technological innovation on the human side of military operations.

Researcher | B5

newsbrief

STAY PROTECTED WHILE CONNECTED

Department of Homeland Security

Most of us have developed a very close relationship with our mobile devices: we carry them with us throughout the day, check them frequently, and even sleep with them nearby at night. Many online activities require us to provide personal information such as our name, email address, account number, and credit card information. This puts us at an increased risk of having this information compromised by cyber criminals.

Keep your private information private. Avoid sharing your full name, address, and other personal information online.

When in doubt, throw it out. If emails, tweets, posts, and online advertisements look suspicious, it's best to delete it, even if you know the source.

Set strong passwords. Passwords should be long, unique, and hard to guess. Change passwords regularly and use different passwords for different accounts.

Secure your mobile device. In order to prevent theft and unauthorized access, use a passcode to lock your mobile device and always lock it when it's not in use. Never leave your mobile device unattended in a public place.

For more cyber tips visit www.dhs.gov/stopthinkconnect.

online

www.TeamAPG.com/APGNews

[facebook.com/APGMd](https://www.facebook.com/APGMd)

twitter.com/USAGAPG

[flickr.com/photos/usagapg/](https://www.flickr.com/photos/usagapg/)

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



U.S. ARMY PHOTOS BY DAVID MCNALLY, ARL PUBLIC AFFAIRS

Army researchers brief a Japanese industry delegation on a unique robot with strong, dexterous arms during an Oct. 5, 2016, visit to the U.S. Army Research Laboratory at Aberdeen Proving Ground.

Japanese delegation visits Army lab

U.S., Japanese researchers explore common interest areas, robotics

By DAVID MCNALLY
Army Research Laboratory

ABERDEEN PROVING GROUND, Md. - Robotics, autonomy and the future potential of machine intelligence are areas of common interest between the United States and Japan.

A delegation from the Japanese Association of Defense Industries visited the U.S. Army

Research Laboratory Oct. 5 for briefings and demonstrations on the future of autonomy.

"The purpose of this visit is to understand what technologies will feed the Third Offset Strategy," said retired Lt. Gen. Mimoto Akiyo of IHI Aerospace Co. Ltd.

The U.S. Department of Defense Third Offset Strategy includes advanced projects in areas like robotics, miniaturization, and manufacturing that are meant to ensure the United States maintains military superiority.

Akiyo said his group is visiting the area to attend the Association of the United States Army exhibition and conference in nearby Washington, D.C.

During the visit, the group listened to briefings on human-robot interactions and perception in small robots and gave a briefing on Japanese unmanned systems research.

The day included technology demonstrations of ongoing projects at the laboratory's Autonomous Systems Division.

Dr. Stephen Nogar, an ARL postdoctoral fellow, showcased his research on a small unmanned aircraft system with a tilt-rotor configuration.

"It has more controlled flight by tilting the thrust vectors to move from one state to the other," Nogar said. "I've developed a numerical See **DELEGATION**, page 7

Army test lab receives certification

CERDEC lab first to receive NSA certification in 13 years

By KELLY WHITE
CERDEC

ABERDEEN PROVING GROUND, Md. - When something comes around once every ten years, you take notice. Well, 13 years to be exact.

The Army Materiel Command's Communications-Electronics Research, Development and Engineering Center, or CERDEC, held a ribbon cutting ceremony to commemorate their designation as an approved Certified Cross Domain Solutions, or CDS, test laboratory.

CERDEC's Space and Terrestrial Communications Directorate, or S&TCD, Cyber Security and Information Assurance, or CSIA, Division's CDS test lab is the first lab to be certified since the original labs were designated by NSA 13 years ago. Prior to the certification, there were only three operational

labs designated to test CDS for the entire DOD.

"We are thrilled to be able to use our capabilities in support of the Soldier and expand on our relationship with NSA," said John Willison, director, S&TCD. "This ribbon cutting is recognition of the hard work from our CDS team, and we appreciate the opportunity to use our skills in support of NSA."

A Cross Domain Solution is a controlled interface that provides the ability to access or transfer information between two or more different security classification domains. A CDS can block or filter data similar to a firewall.

Phil Payne, an S&TCD computer engineer and CDS lab team lead, spoke of CERDEC's excitement during the opening remarks saying, "CERDEC is pleased to be the first lab in over 10 years to be certified by (Unified Cross Domain Services Management Office) UCD-SMO to perform lab-based security assessments of cross domain solutions."

On June 24, the UCDSMO, signed a memorandum concurring with the NSA's

recommendation that CSIA met all requirements to perform CDS Lab-Based Security Assessments, or LBSA. The LBSA focuses on assuring the robustness of designed, architected, and configured CDS security capabilities, as well as correct implementation and compliance with National Institute of Standards and Technology Special Publication 800-53 controls, as outlined in the CDS Overlay.

Certification of the CERDEC CDS laboratory is valid for three years from May 16, 2016, to May 15, 2019.

Dr. Maurice M. McKinney, director, UCDSMO, requested the ribbon cutting to acknowledge CERDEC's recent approval as a CDS Testing Lab. Attendees from Army, Navy, NSA and UCDSMO were also invited to participate in the certification and first CDS LBSA at CERDEC S&TCD CSIA.

McKinney emphasized CERDEC's new function supporting the UCDSMO. "This monumental achievement allows DOD to See **LAB**, page 7

Scouts earn badges at annual STEM event



U.S. ARMY PHOTO BY AMY HAMMEN, AMSAA

Tim Boyd, a computer scientist with the U.S. Army Materiel Systems Analysis Activity, or AMSAA, assists local Cub Scouts with field tests during the STEM in Scouting event at Shore Park on APG North (Aberdeen) Oct. 1. Boyd and Operations Research Systems Analyst Jen Forsyth explained how angles and distance can affect the lethality of the Abrams tank and explained the difference between "accurate" and "precise." The scouts conducted several tests and graphed the results on a scatter plot.

Lab names senior materials researcher

Benard to streamline ARL research efforts

By JENNA BRADY
Army Research Laboratory

ADELPHI, Md. - The U.S. Army Research Laboratory has named a senior campaign scientist for its Materials Research campaign to help streamline research efforts in support of the Army of the future.

Dr. William Benard, an electrical engineer and former associate division chief of ARL's Electro-Optics and Photonics Division, takes on this new role as the lab addresses the science and technology-driven imperatives mandated by the future Army's complex operational environment and core competencies.

The mission of the Materials Research campaign is to perform fundamental interdisciplinary research in materials and manufacturing science to ensure rapid and affordable development of materials, from discovery to delivery, critical to the Army of 2030.

"Everything a Soldier uses is made of materials, so for the U.S. Army to maintain its edge, the development of advanced new materials is a fundamental requirement," Benard said.

From on-demand production to the tailoring of material properties and structures through additive manufacturing and the unique applications of fields, materials research plays a key role in the delivery of materiel to Soldiers when they need it, in the amount they need it and specific to their missions.

"We not only focus on developing materials with extraordinary properties, but also developing a robust understanding of properties and processing so that new materials can ultimately transition to support our warfighters on the battlefield," Benard said.

One key aspect of the Materials Research campaign that Benard appreciates is that it is cross-cutting, playing into the seven other campaigns central to ARL's Technical Strategy, Extramural Basic Research, Computational Sciences, Sciences-for-Maneuver, Information Sciences, Sciences-for-Lethality and Protection, Human Sciences and Assessment and Analysis.

Benard's primary interest is identifying the research opportunities that the campaign intersections represent, some of which have yet to be fully mapped out.

In his new role, Benard is looking forward to accomplishing many tasks that are essential to the success of ARL, both

now and as the lab moves into the future.

"My role is relatively new to the organization and there is much to be done including advancing ARL's strategic vision for materials, working with the other senior campaign scientists to develop best practices, developing a campaign communication strategy, engaging the workforce to understand what their goals and needs are in terms of our technical strategy, and looking for new opportunities in the cross-cutting space that has been created through the eight campaigns," Benard said.

ARL will celebrate its milestone 25th anniversary next year, and Benard is looking forward to his strategic role as the lab moves into the next 25 years.

"We are at a very interesting time in materials research, especially at ARL," Benard said. "ARL is well positioned to play a significant role, which will involve further research into areas such as materials for autonomous systems and additive manufacturing."

Benard noted that there will be a big push for on-demand multilevel modeling and design of materials and structures, for which ARL will need to expand its capabilities, as well as emerging low-cost, high-performance materials discovered through synthetic biology research.

"We have the opportunity to create materials that have never been created before and tailor those materials to how we want them to operate in a certain space," Benard said. "For example, we can develop molecules where we can adjust the adhesion to a specific surface at one end, and change the properties at the other end, such as to have specific spectral properties."

Benard also noted that as the lab's capabilities evolve, scientists can start to envision approaches to achieving highly functional complex systems by combining their multidomain expertise.

"For example, we could use our additive manufacturing and synthetic biology expertise to engineer and direct synthetic biological processes to produce complex multiscale materials and structures using very little energy, which has been a limitation of traditional additive manufacturing approaches," Benard said.

Whatever the future may bring, Benard is ready to lead ARL as the lab further pursues materials research.

"I am very excited and pleased to be here and in this position," Benard said. "I have been fortunate my entire life to have the opportunity to work with extremely impressive people, which continues here at ARL. It is a tremendously interesting time for ARL and for materials research, and I am proud to be a part of it."



U.S. ARMY PHOTO BY JHI SCOTT

The U.S. Army Research Laboratory names Dr. William Benard as senior campaign scientist for its Materials Research campaign to help streamline research efforts in support of the Army of the future.



U.S. ARMY PHOTO BY DAVID VERGUN, ARMY NEWS SERVICE

Katherine Hammack (far right), assistant secretary of the Army for Installations, Energy and Environment, a big supporter of energy-efficient vehicles that are also high-performance combat ready, was on hand for the unveiling of the ZH2 hydrogen fuel cell electric vehicle rolled out Oct. 3, 2016, during the Association of the United States Army Annual Meeting and Symposium.

Army, GM unveil new tactical vehicle

New prototype to be delivered to Army in April 2017 for user evaluations

By DAVID VERGUN
Army News Service

WASHINGTON -- The Army Tank Automotive Research, Development and Engineering Center and General Motors unveiled an energy-efficient tactical vehicle here that could one day save lives on the battlefield.

The ZH2 hydrogen fuel cell electric vehicle prototype was rolled out Monday, Oct. 3, during the Association of the United States Army Annual Meeting and Symposium.

sium.

Four advantages

Kevin Centeck, team leader for Non-Primary Power Systems, Ground Vehicle Power and Mobility Directorate, TARDEC, said the vehicle comes with several advantages for the Army and Soldiers in the field.

First, the ZH2 operates on hydrogen fuel instead of traditional diesel. It uses much less fuel than traditional tactical vehicles. At idle, it is "extremely efficient," Centeck said. This should reduce the logistics train.

Second, since the vehicle uses hydrogen with electric power, it has an extremely low acoustic signature, meaning it's very quiet. "It's silent mobility, silent watch," Centeck said. "You don't give away your position by

turning on the engine."

Third, the ZH2 has a radically reduced thermal signature because it doesn't operate as hot as a diesel engine, which means the heat signature is harder to pick up by enemy thermal sensors, providing additional stealth for Soldiers.

A fourth, less direct, but nonetheless important advantage cited by Centeck, is that the ZH2 demonstrated that the Army could build such a vehicle rapidly, using mostly off-the-shelf parts. The ZH2 took just one year from concept to delivery. The vehicle itself is basically a Chevy Colorado platform.

Centeck called the development of the vehicle a "collaborative effort" between TARDEC and GM, with collaboration on evaluations and fuel-stack testing.

Delivery timeline

Delivery of the ZH2 from GM to the Army will take place April 1, 2017 Centeck said.

Following delivery, user evaluations will take place with Soldiers at Fort Benning, Georgia; Fort Bragg, North Carolina; and Fort Carson, Colorado. Those evaluations will take place over the course of a year.

The user evaluation process will be rigorous, he said. It will include subjective feedback from Soldiers as well as objective feedback in order to get a full data set.

Over the course of the next few years, the Army examine how it can best support hydrogen supply in the field, he said. Department of Energy tacticians and logisticians will help conceptualize the solution and provide a plan.

BY THE NUMB#RS

Pumpkins

When a chill can be felt in the air, it can only mean one thing; Fall has arrived. With Fall comes the onslaught of everything pumpkin. From pumpkin spice to pumpkin pie, and Jack-O-Lanterns, this squash will be making some type of debut in most houses in America. Here are some facts about America's most beloved squash.

1.3 billion

pounds of pumpkins produced in 2014.

745.8 million

pounds of pumpkin produced in Illinois, the top pumpkin producing state in 2014.

\$361 million

Total spent on pumpkin-flavored items in 2015.

2,323 pounds

Weight of the heaviest pumpkin ever grown.

90

Percent of canned pumpkin is sold between October and January.

By Lauren Finnegan, APG News

Sources:

<http://www.agmrc.org/commodities-products/vegetables/pumpkins/>;
<http://www.ers.usda.gov/topics/in-the-news/pumpkins-background-statistics.aspx>;
<http://www.cnn.com/2015/09/22/5-key-facts-about-pumpkin-spice-mania.html>.

Visit APG News online at www.TeamAPG.com/APGNews

WORD OF THE WEEK

Plenary

Pronounced: PLEE-nuh ree

Pronounced: PLEN-uh-ree

Definitions:

Absolute; unqualified; complete in every respect
 [Of a meeting] Fully attended or constituted by all entitled to be present.

Examples in common use:

- The disciplinary committee will have plenary powers regarding suspensions and dismissals.
- An amendment proposal requires a plenary session of the state legislature.
- The commandant has plenary power to advance or demote faculty members as needed for the good of the academy.

Sources:

www.dictionary.com
www.oxforddictionaries.com
www.merriam-webster.com

ACRONYM OF THE WEEK

EQIP

Environmental Quality Incentives Program

The Environmental Quality Incentives Program, EQIP, is a voluntary program within the Department of Agriculture that provides financial and technical assistance to agricultural producers to plan and implement conservation practices that improve soil, water, plant, animal, air and related natural resources on agricultural land and non-industrial private forestland. EQIP may also help producers meet federal, state, tribal, and local environmental regulations. EQIP was created by the 1996 farm bill (P.L. 104-127) to provide primarily cost-sharing assistance, but also technical and educational assistance, aimed at promoting production and environmental quality, and optimizing environmental benefits.



Sources:

<http://www.nrcs.usda.gov>
www.wikipedia.org

2016 APG Fall Technology Expo
 hosted by ECBC/CIO

See the Latest Technology & Services

- ACG Systems * AVS Installation * Advatech Pacific
- ALBEDO Telecom * Ameripack
- Ampex Data Systems * BJB Electronics * Brocade
- * CONDUCT RF * Control Cable Crystal Group
- * Cubic * DS Solidworks * Dell, Inc. Delmarva Engineering * EMC * EPS Corp.
- Emerson Network Power * Fiber Instrument Sales
- Fluke Networks * Force 3 * GammaTech Computer
- General Dynamics Mission Systems * Getac
- Graybar Electric * HP Inc.
- Hewlett Packard Enterprise
- Hitachi Cable America * Integral Marketing
- Iron Bow Technologies
- Ixia * Klas Telecom * Lexmark Int'l
- Link Solutions * MHz Marketing
- Maxcell / Maxspace * Megaphase * Micron
- NEC Display Systems * National Instruments
- NetApp * NetBrain Technologies
- New Horizons CLC * Nextech Solutions
- Nextmove Technologies * Nimble Storage
- Nutanix * OptoSpan Fiber Networks
- Packaging Strategies * PacStar * Panasonic
- Planar Systems * Plug-In Storage Systems
- Powertek Corp. * Pure Storage * Quantum
- Quantum Data * Riverbed Technology
- Rohde Schwarz * SCI Technology
- Spirent Federal Systems * SURVICE Engineering
- System Source * TechTrend * Tektronix
- Test Equity * The Skydyne Company
- Themis Computer * Three Wire Systems
- VWR/Beckman Coulter
- Vision Technologies * Wesco Distribution
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Wednesday
19 October 2016

Expo Hours: 9:30am - 1:30pm

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Technology Briefings Schedule

9:30am

All-Flash Data Storage:

Industry Update and Path to Adoption

Presented by NetApp

10:45am

Taking Excel 2013 to the next Level

You will learn advanced functions to better manage your data and spreadsheets.

Presented by System Source

12:15pm

Powerful Presentations in PowerPoint 2013

You will learn advanced topics and make your presentations pop

Presented by System Source

** Limited Seating for all Briefings **

Expo and Briefings Open and Free to ALL DoD, Government, School Professionals & Contractor Personnel Interested in Today's Technology!

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 1987.

BY YVONNE JOHNSON, APG NEWS

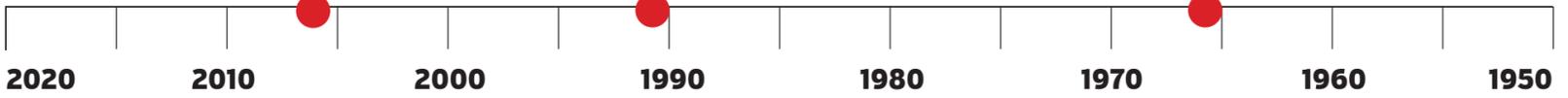


Photo by REBECCA CH
Fire and protection specialist Andre Fournier demonstrates that a cup of water does little to douse this grease fire during the kitchen fire demonstration at last year's Community Awareness Day Oct. 15, 2005. For a full story, visit [http://www.apgnews.com](#)

10 Years Ago

Oct. 12, 2006

Fire and protection specialist Andre Fournier shows how little a cup of water affects a grease fire during Community Awareness Day activities at the Directorate of Emergency Services fire station.



DR. SCIENCE — Dr. John A. Guthrie, a doctoral researcher, works in one of the laboratories for Ballistic Division's laser laboratories. In this experiment, a laser is used for highly reactive free radicals in flame at atmospheric pressure.

25 Years Ago

Oct. 9, 1991

Dr. John A. Guthrie is one of several post-doctoral researchers credited with keeping the Ballistics Research Laboratory on the cutting edge of technology.



50 Years Ago

Oct. 13, 1966

Partially blind, but highly experienced photographer Ted Olson, right, and pilot George O. Sampson prepare to take off on an aerial photography testing program for the Ordnance Center and School.

On the cusp of profound change

Milley says Army must prepare for rapid, fundamental change

By C. TODD LOPEZ
Army News History

WASHINGTON -- The future of the Army may not involve divisions, corps, tanks or Bradley fighting vehicles, said the Army's chief of staff. And that future isn't 100 years away, or even 50. It's only about 25 to 30 years away.

Milley spoke Oct. 4 at the 2016 Association of the U.S. Army Annual Meeting and Exposition's Eisenhower Luncheon.

The Army of the future he described in his remarks bore little resemblance to the Army that Soldiers know today, not just in its technology, but also in how it fights and where it fights.

"I suspect that the organizations and weapons and doctrines of land armies, between 2025 and 2050, in that quarter-century period of time, will be fundamentally different than what we see today," he said.

Fundamental, rapid change

He cited the scenario of a Civil War combat Soldier attempting to visualize a World War II or Vietnam Soldier as the appropriate comparison for what Soldiers of today should expect in the way of change over the next two decades.

While the evolution of soldiering from the Civil War era to Vietnam took about 100 years, Milley said it won't take a century for that level of change to happen again. It will happen in the next 20 to 30 years, the amount of time it takes a second lieutenant who commissions next spring to become a general.

"Rapid change has become increasingly compressed," he said. "Those of us today will find it difficult to recognize the battlefield of 2035, let alone 2050."

Future conflicts will come about in the same way conflicts come about today; nation states will fight to protect their interests, he said, and engage in conflict over territory or resources. But the ways in which nations wage war will change dramatically.

A new battlefield

The weapons, the technology, and the domains will change. The battlefield will no longer be the battlefield that the Army Soldiers and the Army leadership train for today. Preparing for that new era will be one of the toughest challenges the Army will face in the next 25 years.

"Crisis will unfold rapidly, compressing decision cycles and response times," Milley said. "Ambiguous actors, intense information wars, and cutting-edge technology will confuse situational understanding."

That overload of information, he said, will be possible only when the communications technology works. But Soldiers of the future, he said, should expect that all their communications, including communication with their higher headquarters, will be contested -- and will probably fail. They should expect to work without it, he said.

"[Soldiers will] operate routinely in a partially or significantly degraded environment," he said. "That means we must invest



U.S. ARMY PHOTO BY STAFF SGT. MARY S. KATZENBERGER
U.S. Army paratroopers, assigned to 3rd Brigade Combat Team, 82nd Airborne Division, hike up a mountain a company combined arms live fire exercise at the Operations Group, National Training Center at Fort Irwin, Calif., April 27, 2016.

in hardening our systems and, equally important, train on the techniques of operating with limited electronics. That'll be a shocker for all of us. We may have to read a paper map again and learn to use a magnetic compass."

Operating without supervision

More significantly, when electronics fail, Soldiers will have to operate without communication with their higher headquarters. Milley suggested at an Oct. 3 press conference that lack of contact might continue for days, weeks, or even months at a time, and that Soldiers might need to operate knowing only the overarching strategic goal of their higher level of command.

Under those conditions, small units would be called upon to execute the intent of their commander, Milley said "without ever having actual contact with our higher headquarters for extended periods of time ... This method will have to become a reality in everything we do."

Operating without supervision, he said, will require a new kind of leader.

"The willingness to disobey specific orders to achieve the intended purpose, the willingness to take risks to meet the intent, the acceptance of failure and practice in order to learn from experimentation: these are all going to have to be elevated in the pantheon of leader traits," Milley said.

The environment those Soldiers will operate in, he said, will be "highly lethal," and "unlike anything our Army has experienced, at least since World War II."

Sensors everywhere

Milley then drew attention to the proliferation of technology and its decreasing cost, which makes it possible to connect everything -- and to put sensors everywhere.

"It has become cheap, to the point where there are way more [internet-connected] communication devices than there are people ... no matter where you go in the world today, it's observable from some device," he said.

With sensors everywhere, he said, Soldiers in the future will have to operate with the understanding that, "the probability of being seen is very high. And as always, if you can be seen, you will be hit, and you will be hit fast."

Milley said formations will need to be small, on the move constantly, and will have to "employ every known technique of cover and concealment."

That also means an end to the warfighting environment that Soldiers know from serving in Iraq or Afghanistan. In future conflicts, there won't be a place for something like Victory Base Complex in Baghdad, or an installation like Bagram, Milley said. "That fact requires a significant change in our current methods of thinking, training and fighting."

Austere environment

The warfighting environment for the Soldiers of the future, he said, "will be extremely austere. Water, chow, ammo, fuel, maintenance and medical support will be all that we should plan for." Soldiers will no longer be able to count on comforts like fast food and showers.

"Being surrounded will become the norm, the routine, the life of a unit in combat," he said. "In short, learning to be comfortable with being seriously miserable every single minute of every single day will have to become a way of life for an Army on the battlefield that I see coming."

Even the meager resupply will be different. Soldiers might, in some cases, be expected to produce water for themselves, Milley said, or even devise replacement parts for their gear with 3D printing. When lines of communica-

tion are open, a robotic supply convoy might be "the only acceptable method of supply that we can get to forward troops."

Milley described the battlefield of the future as non-linear and predicted that friendly forces may face significant geographic dispersion.

"This type of battlefield will place a very high premium on independent, relatively small formations that are highly lethal and linked to very long-range precision fires," he said. "Our formations will come under enemy fixed-wing, rotary-wing, [unmanned aerial vehicle] and missile attack on a routine basis."

Ground forces

Ground forces will no longer be able to depend on the dominance of the air provided by another service, but instead, "units are going to have to be combined arms, multi-domain capable."

"We will still have to fight and destroy land-based enemy units and seize terrain," Milley continued, "but the Army ... we're going to sink ships. And we're definitely going to have to dominate the airspace above our units from hostile air or missile attack. This is going to require sophisticated air defense capabilities that are not currently in our unit inventories."

And there will be somewhat of a role reversal as well, he said. Land-based forces will need to penetrate denied areas to assist air and naval forces, which is "the exact opposite of what we have done for the past 70 years, where air and naval forces have enabled ground forces."

Will the Army be able to achieve the changes Milley predicts? He thinks so.

"We're the United States Army," he said. "And our enemies need to know these colors don't run from tough fights. We will adapt and we will evolve our current force. But in the end, we will win. That much I can tell our enemies ... They can take it to the bank."

The human impact of Army modernization

Understanding Soldiers' world key to making their job easier, researcher says

BY JOYCE CONANT
U.S. Army Research Laboratory

ABERDEEN PROVING GROUND, Md. -- Researchers and scientists join the civilian workforce for a multitude of reasons. Some join because of their military backgrounds, others are from a military families, most all are drawn to public service because they share a passion to support America's service men and women.

Dr. John K. Hawley, an engineering psychologist with the U.S. Army Research Laboratory Human Research and Engineering Directorate at Fort Bliss, Texas, said he has always had an interest in military history and is particularly interested in the history of military innovation—specifically the impact of technological innovation on the human side of military operations.

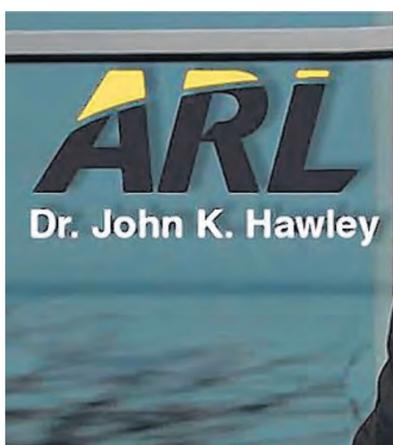
Hawley, who has been working at ARL for nearly 15 years, got his start at APG where he was a branch chief for a few years before moving to Fort Bliss to oversee an investigation of human factors and human performance contributors to the challenges involving the Patriot air and missile defense system during Operation Iraqi Freedom. As a former air defense officer, Hawley worked extensively with Patriot and other air defense systems—giving him the needed experience. Before joining ARL, he worked for the Army Research Institute for the Behavioral and Social Sciences at their field office in Texas Fort Bliss and also in Alexandria, Virginia, and spent several years working in the private sector.

"I generally liked working for small technology-oriented companies. I got involved in MANPRINT (now Human Systems Integration, or HSI) while working for ARI in the mid-1980s, and I guess that experience has followed me throughout my career," Hawley said. "Working HSI has kept me close to technical and doctrinal innovations in the Army. For the past four years I've been involved in the Army's Network Integration Evaluations, or NIEs, exercises to support Soldier readiness."

NIEs are designed to help the Army keep pace with rapid advances in communications technologies and deliver integrated network and mission command capabilities, a top Army modernization priority for readiness.

The NIEs are a series of semiannual exercises intended to integrate and mature the Army's tactical network in an operational context. During an NIE, the Army conducts integrated and parallel operational tests of selected Army programs of record, evaluates developmental and emerging network capabilities in an operational environment, and assesses non-networked capabilities in an integrated operational environment.

"The Army is in the midst of an extensive modernization move into network-enabled



Dr. John K. Hawley is an engineering psychologist with the U.S. Army Research Laboratory at Fort Bliss, Texas. He began his ARL career 15 years ago at APG.



U.S. ARMY PHOTOS

operations. The centerpiece of this modernization initiative has been the NIEs," Hawley said. "New equipment suites for network-enabled operations are tried out first in the NIEs."

The first exercise in each yearly sequence is now referred to an Army Warfighting Assessment. The assessments focus on future Army warfighting challenges, non-materiel aspects of force modernization, and joint and multinational interoperability. The exercises are held at Fort Bliss and, as the exercises unfold, White Sands Missile Range in New Mexico.

"We get a chance to look at new digital mission command systems and networking gear in the aggregate, as systems of systems, and 'in the wild' — as used within an integrated operational environment," Hawley said.

"I got deeply into that topic as co-lead on the HSI effort for the Future Combat Systems program while I was at APG. Now, with the NIEs I feel like I have a front row seat during a major modernization initiative and am able to observe and write about the human impact of modernization. Technology, particularly information and communications technology such as that employed in network-enabled operations, can have a very disruptive impact on receiving organizations."

"The Army generally does not deal adequately with those disruptive impacts. I have defined my current job as documenting and characterizing the nature of those disruptive impacts, identifying potential solutions, and working with proponents to implement those solutions. Solutions usually involve changes in doctrine, organization, training, leader preparation, and personnel—the so called DOTLP domains. It's HSI on a bigger stage."

Hawley has experienced a great deal throughout his 40-year professional career. When he's not at work, he said he likes to read a lot both professionally and for pleasure, and for more than 20 years has been an avid cyclist.

"I stay in the game because I really like

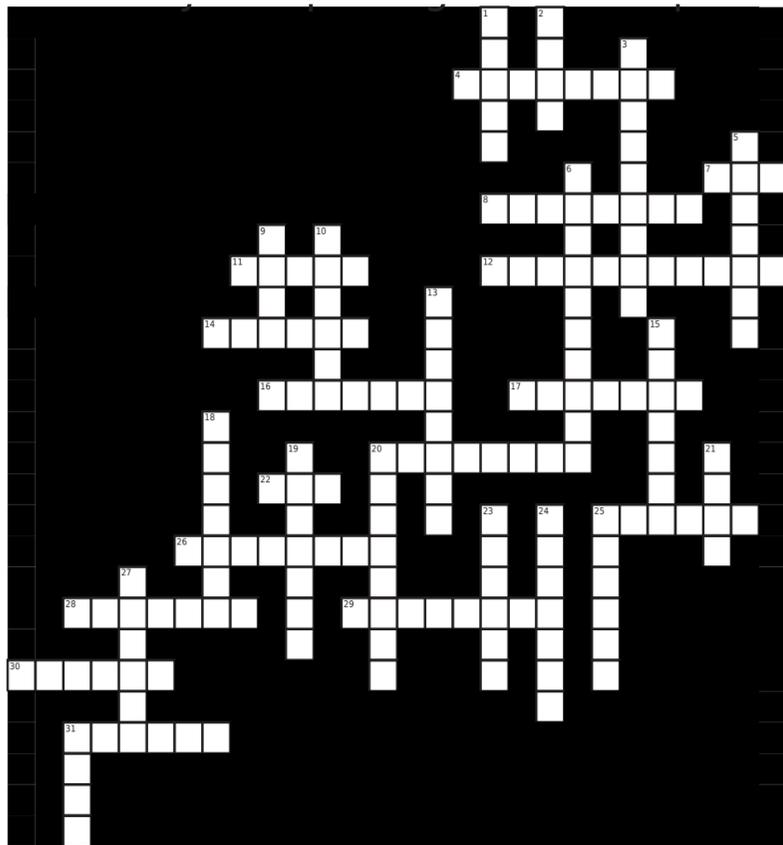


Satellite communications provide enhanced capabilities during the semi-annual Army Network Integration Evaluation to support Soldier readiness. Dr. John K. Hawley says NIEs provide him "a front row seat during a major modernization initiative" enabling him "to observe and write about the human impact of modernization."

the applied work that I'm currently doing," he said. It's fun. Also, at this stage of my professional career, I'm very interested in making things work better for the Army while using all their new network-enabled gear."

Hawley said his research experience and what he's learned over the years can help. "They need a translator to make that vast

body of information available to them and relevant to their problems," he said. "To do that, you have to have one foot in the technical world and another in the operational world, so to speak. You have to understand their world as they experience it, what makes some of these equipment suites hard to use and what could be done to make their job easier."



THE APG CROSSWORD

Hockey

The National Hockey League's regular season began Oct. 12. Celebrate by completing this trivia puzzle.

BY RACHEL PONDER
APG News

Across

- 4. The NHL, the most popular ice hockey league in the world, began after Canada's _____ Hockey Association disbanded in 1917.
- 7. The "Original _____" describes the teams

that made up the NHL from 1942 until the 1967 expansion. These teams are still active franchises in the league.

8. He was the first goalie to ever wear a mask, after a shot by Howie Morenz knocked him unconscious in 1927.

11. Pavel Valerievich Datsyuk won the Frank J. Selke Trophy as the NHL's top defensive forward in the 2007–08, 2008–09 and 2009–10 NHL season. He is nicknamed "The _____ Man."

12. This international professional ice hockey league, founded in 2008, is comprised of 29 nations, including Russia, Croatia, China and Finland.

14. NHL _____ Classic is an annual event held on or around New Year's Day in which a regular-season ice hockey game is played outdoors.

16. A slang term for a hockey puck.

17. She was the first woman to play in the NHL, as a goalie for the Tampa Bay Lightning.

20. Attempting to take the puck from an opponent or to remove the opponent from play is called _____.

22. The first NHL million dollar contract went to this hockey player in 1971. It was a \$200,000, five year term contract.

25. Number of teams currently in the NHL.

26. A term for "a very fast slap shot."

28. The Hockey Hall of Fame is located in this Canadian city.

29. On March 3, 1875, the first recorded organized indoor ice hockey game was played at the _____ Skating Rink in Montreal, Canada.

30. Alexander "Alex" Ovechkin, the ice hockey winger and captain of the Washington Capitals hails from this nation.

31. He is a center and captain of the Nashville Predators.

13. _____ Arena, in Boston, Massachusetts, is the oldest indoor ice hockey arena still being used for hockey, and the oldest multi-purpose athletic building still in use in the world.

15. Brand name of the ice resurfacer used to clean and smooth the surface of ice rinks.

18. In ice hockey, a _____ is credited to any goaltender that successfully stops the other team from scoring during the entire game.

19. He is nicknamed "The Great One," and has been called one of the greatest hockey players ever.

20. Slang term for trash talking in ice hockey.

21. When a hockey player scores his third goal of a game, fans usually throw these on the ice.

23. This Canadian icon and ice hockey commentator is known for his candidness and colorful clothes. His nickname is "Grapes."

24. A hockey jersey is sometimes called a _____.

25. A professional ice hockey game consists of three periods of _____ minutes.

27. The Boston _____ is the oldest United States-based team in the NHL.

31. Ice hockey is classified as a _____ contact sport.

Down

1. He is considered the father of hockey in the United States.

2. Term for a hockey stick.

3. This team the Stanley Cup more than any other franchise. It is also the longest continuously operating professional hockey team in the world.

5. He holds the record for playing on the most Stanley Cup championship games, winning 11 times in his career.

6. A Swedish professional ice hockey forward and captain of the Detroit Red Wings.

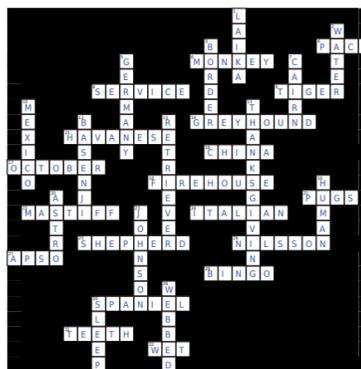
9. A common term for an ice skating rink.

10. The Edmonton _____ hold the record for scoring the most points in a NHL season, with 446.

Think you solved last week's puzzle?

Check out the solution below

Solution to the October 6 puzzle





Dr. Jonathon Bornstein, chief of the U.S. Army Research Laboratory's Autonomous Systems Division, answers questions from members of the visiting Japanese Association of Defense Industries delegation Oct. 5, 2016.



Retired Lt. Gen. Mimoto Akiyo of IHI Aerospace Co. Ltd., (center) led a delegation of 20 businessmen from the Japanese Association of Defense Industries during a day-long visit to the Army Research Laboratory.

Tour highlights ARL robotic advancements

DELEGATION, From page 1
model of the control scheme that I plan on implementing."

Nogar said he is working on using autonomous computer vision and sensing onboard the UAS.

"What we want to try and do is have our vehicle be able to perch on a tree branch and do that using only sensors located onboard the vehicle," he said.

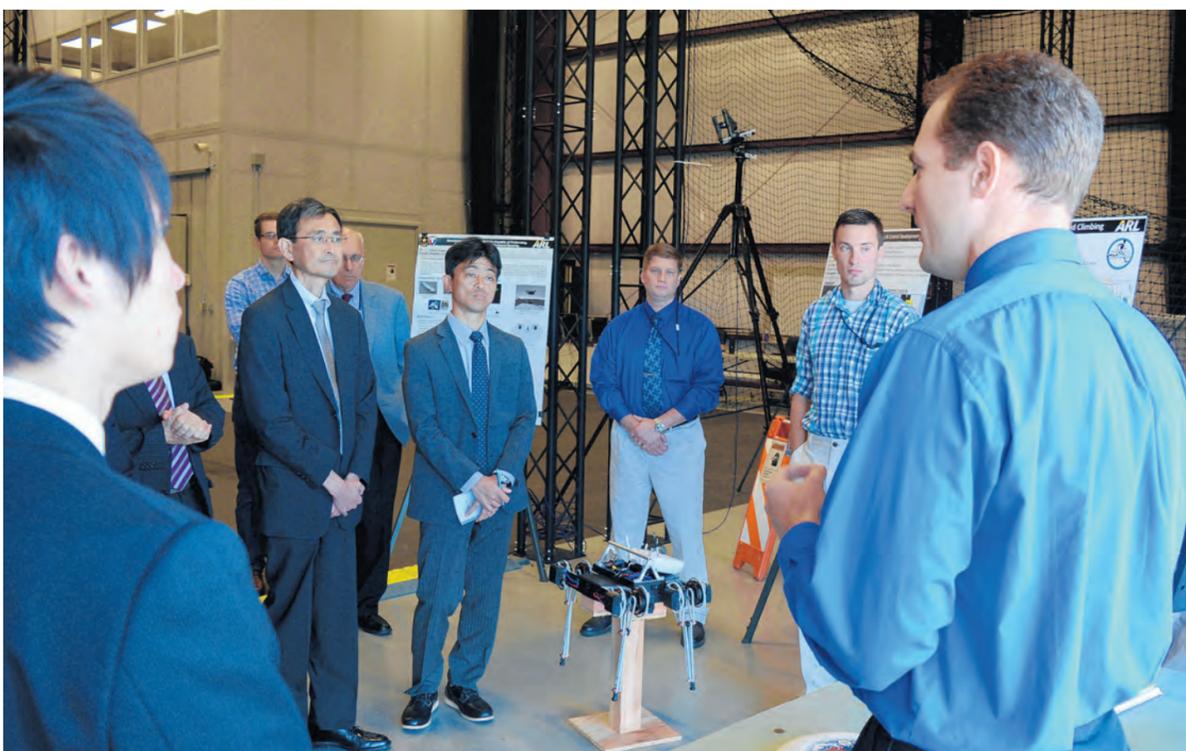
In another demonstration, the Japanese delegation observed a unique ground robot with arms from RoboSimian -- an ape-like robot developed at NASA's Jet Propulsion Laboratory, in Pasadena, California, that competed in the Defense Advanced Research Projects Agency, or DARPA, Robotics Challenge Finals in 2015.

"The Jet Propulsion Laboratory is part of the Army's Robotics Collaborative Technology Alliance," explained ASD Chief Dr. Jonathon Bornstein. "We've taken the arms and placed them on a track platform."

Researchers demonstrated the robot's mobility and dexterity by moving its arms and showing how it can move large objects.

The laboratory seeks collaborative partnerships with industry and academia across the globe that lead to knowledge-building and research breakthroughs as part of its Open Campus Initiative, officials said.

"The Army Research Laboratory has been involved in autonomous systems, artificial intelligence by another name, for many years," Bornstein told the delegation. "Our goal is to enable teams of Soldiers and unmanned systems to work together effectively."



U.S. ARMY PHOTOS BY DAVID MCNALLY, ARL PUBLIC AFFAIRS
Army researcher Chad Kessens (right) briefs Japanese industry representatives on current robotics research during an Oct. 5, 2016, visit to the U.S. Army Research Laboratory at Aberdeen Proving Ground, Maryland.

Lab to test cross domain solutions

LAB, From page 1
increase the capacity to test cross domain solutions," McKinney said. "As soon as this lab opened, we had customers knocking at the door, and we look forward to growing this relationship with CERDEC."

Donald Heckman, deputy chief, NSA Information Assurance Capabilities, emphasized the importance of CERDEC's new lab and how critical it is for U.S. security, saying "CDS labs have a critical role, and we look forward to a long relationship."

CERDEC S&TCD is leveraging its S&T investment, subject matter experts and facilities to enable the Army's cyber community with knowledge of what's making the network more expeditionary and addressing both radio frequency and cyber threats -- and how events like CERDEC's Cyber Blitz work toward innovative outcomes for the Soldier.



The S&TCD CDS lab team is presented with the certification during a ribbon cutting ceremony on Sept. 27 at Aberdeen Proving Ground, Md.

U.S. ARMY PHOTO

DID YOU KNOW?

The Centers for Disease Control and Prevention, or CDC, sponsors the domestic violence coalition, DELTA FOCUS.

DELTA FOCUS stands for Violence Prevention Enhancements and Leadership Through Alliances, Focusing on Outcomes for Communities United with States.

DELTA FOCUS is a five-year cooperative agreement funding 10 state domestic violence coalition grantees to engage in primary prevention of intimate partner violence, known as IPV. Primary prevention means stopping IPV before it occurs.

Intimate partner violence is a serious, preventable public health problem that affects millions of Americans and results in serious consequences for victims, families, and communities.

- In an average minute, about 24 people are victims of rape, physical violence, or stalking by an intimate partner.
- In 2010, 241 males and 1095 females were murdered by an intimate partner.
- In one year, more than 12 million women and men reported being a victim of rape, physical violence, or stalking by an intimate partner.
- In their lifetime, 1 in 4 women (24.3 percent) and 1 in 7 men (13.8 percent) will report experiencing severe physical violence (e.g., being hit with a fist or something hard; beaten; slammed against something, etc.) by an intimate partner.

DELTA FOCUS grantees support IPV prevention at the national, state and local levels through strategies that address the structural determinants of health at the outer layers (societal and community) of the social-ecological model. This means, in addition to addressing individual and relationship factors associated with IPV outcomes, grantees support work to change the environments and conditions in which people live, work and play. The project period of DELTA FOCUS ends February 2018.

For more information, visit the CDC website at <http://www.cdc.gov/violenceprevention/deltafocus/index.html>.

