



# APG NEWS

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

www.TeamAPG.com

THURSDAY, SEPTEMBER 8, 2016

Vol. 60, No. 34

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## newsbrief



**GRAB YOUR LEDERHOSEN!**

**8 days until Oktoberfest**

**Sept. 16 & 17**

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

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

German food and beverages will be available for purchase.

Opening ceremonies on Friday will include the traditional keg tapping by installation and community leaders.

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

For more information, visit [www.apgmwr.com/2016-oktoberfest](http://www.apgmwr.com/2016-oktoberfest).

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

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



Deputy Ron Hoover, a K-9 officer with the Cumberland County, Pennsylvania Sheriff's Department, leads German Shepard Magnum through the National Odor Recognition Test training held at APG Aug. 30 - Sept. 1 as Cody Monday, an ATF National Canine Division instructor observes Magnum's response to each can, and potentially the scent of an explosive.

## ATF trains K9s to detect explosives

By **LAUREN FINNEGAN**  
APG News

The Bureau of Alcohol, Tobacco, Firearms and Explosives, also known as ATF, conducted National Odor Recognition Test, or NORT, training and administered the test to military and police explosives detection canine teams from across the country at Aberdeen Proving Ground last week.

The assessment, which tests canine abilities to successfully alert to odors from

explosives, was created in 1997 after Congress mandated that scientific certification standards of explosive detection canines be available through federal agencies.

The training and test is offered 14 times a year throughout the country and is free to all participants.

Sgt. Jeremy Rondone with the APG Special Reaction Team K-9 Unit, said that "being centrally located on the eastern seaboard allowed for multiple dog teams in the region to train and certify locally."

During instruction, the dogs are imprinted on ten fundamental explosives over the three-day event. The knowledge they gain will assist communities out in the field, Rondone said.

Imprinting a K-9 means that the scents of the explosives are established in the dog's memory so when it come across that smell again, it will alert the handler.

Cody Monday, an instructor with the

*See K9s, page A7*

## Force protection, Zika top town hall topics

Story and photo by **YVONNE JOHNSON**  
APG News

APG Soldiers and civilians listened to updates about how the military and the state of Maryland are monitoring the Zika Virus; upcoming events such as the Oktoberfest set for Sept. 16-17; ongoing preparations for the Automated Installation Entry system set for later this year; and more, during the Installation Town Hall at the APG North (Aberdeen) recreation center Aug. 30.

APG Senior Commander Maj. Gen. Bruce T. Crawford hosted the event. He was assisted by Garrison Commander Col. James E. Davis and a panel of subject matter experts from Morale, Welfare and Recreation; the Directorate of Public Works; Kirk U.S. Army Health Clinic, the Army & Air Force Exchange Service, or AAFES, and Corvias Military Living. In addition,



APG Senior Commander Maj. Gen. Bruce T. Crawford, addresses APG Soldiers and civilians during the Installation Town Hall at the APG North (Aberdeen) recreation center Aug. 30.

*See TOWN HALL, page A7*



### Brake for bugle calls, Team APG!

Team APG is reminded to follow proper protocol during Reveille, at 6:30 a.m., and Retreat, at 5 p.m., each day. Service members must salute the flag (or face the direction of the music) and civilians must stand with their hands over their hearts - like during the national anthem. Both service members and civilians in vehicles must come to a complete stop. Service members must exit their vehicles and render honors. Civilians must remain stopped until the end of the bugle call.

The raising and lowering of the flag, accompanied by Reveille and Retreat, is among the Army's most time-honored traditions.

For more information about rendering honors to the flag, see AR 600-25 or FM 7.21.

Photo by Amanda Rominiecki, USAG APG

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# STREET TALK

Grandparent's Day is celebrated on Sunday, Sept. 11 this year.

## What is your favorite memory with your grandparents?

Going down to their house and swimming at the creek in Pasadena.



**Charles Guidice**  
Family Member

My grandparents live in Florida... so going down to Florida and having family dinners with my grandma cooking.



**Shanel Williams**  
Family Member

My favorite memory was when we got to stay at their house for a little bit and eat at "Famous Dave's."



**Phillip Johnson**  
Family Member

When I got to visit them in the Phillipines. My favorite thing was when we got to go visit fun places with them, like the water park.



**Dallas McNair**  
Family Member

I went to Kings Dominion with my grandma when I was 10. I rode the biggest roller coaster I had yet been on.



**Josh Fuentes**  
Family Member

# Commander's Corner

## Live the Army values every day

Since arriving here at Aberdeen Proving Ground more than a year ago, I've heard "APG isn't like other Army installations."

APG is unique. It is the premier research and development site for the Army. We are home to more than 90 tenant organizations comprising six centers of excellence:

- C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance)
- CBRNE (Chemical, Biological, Radiological, Nuclear and Explosives)
- Research and Development
- Test and Evaluation
- Public Health
- Personnel Security Investigations

As Chief of Staff of the Army Gen. Mark Milley said, the Army's #1 priority is readiness, and there is no other #1 priority. Here at APG, our six centers of excellence make immeasurable contributions to the Army's readiness, whether it's protecting service members from the threat of chemical weapons, ensuring armored vehicles can withstand the blast of a roadside bomb, or equipping dismounted Soldiers with the latest communications technology.

Though diverse, APG's missions are all connected to the readiness of our Army and ensuring the United States has the greatest fighting force in the world.

In addition to mission readiness, another critical component of our Army's overall readiness is ensuring our Total Army Team lives by the Army Values: loyalty, duty, respect, selfless service, honor, integrity and personal courage.

As we approach the 15th anniversary of 9/11 – and remember the lives lost on that day and every day since – the importance of living by the Army Values becomes even more apparent. Our service members, first responders and their families encompass the epitome of loyalty, duty, respect, selfless service, honor, integrity and personal courage.

We must remember to pay respect to our nation's fallen service members and first responders whenever possible. This includes when the American flag – the symbol of our nation and the sacrifices to ensure our liberties – is raised and lowered.

The raising and lowering of the flag, accompanied by Reveille and Retreat respectively, is among the Army's

**As we approach the 15th anniversary of 9/11 – and remember the lives lost on that day and every day since... we must remember to pay respect to our nation's fallen service members and first responders whenever possible.**



most time-honored traditions. From the moment a Soldier enters basic training, he or she is taught the proper protocol for rendering honors to the flag.

For some of us, basic training might have been some time ago – so perhaps it is time for a refresher. If driving, all Soldiers must stop, exit their vehicles and salute the flag (or face the direction of the bugle call, if the flag is not within view.) If he or she is already outside, the protocol is exactly the same – salute the flag.

For our civilians, contractors or family members, you may not know what to do when you hear Reveille or Retreat because you were never given an "Army civilian handbook." If you're driving, please come to a complete stop and wait for the bugle call to cease. If you're outside and hear the bugle call, stop walking and face the flag (or direction of the music) with your hand over your heart – like you would for the national anthem.

I ask each of you to share this message with others in our Team APG community. If you are on post at 6:30 a.m. or 5 p.m. (1700), stop what you are doing and render honors to the flag. Consider it an opportunity each day to pause, pay respect to the many freedoms and opportunities we enjoy in this great nation and remember every soul who has paid the ultimate sacrifice for the United States of America.

**COL. JAMES E. DAVIS**  
APG Garrison Commander

## Fight the Bite at APG

Centers for Disease Control and Prevention

Agencies across the United States are working diligently to fight the spread of Zika virus and other mosquito-borne diseases, but it is important to do your part to protect yourself from mosquito bites.

Follow these tips:

- Use insect repellent: Use an Environmental Protection Agency (EPA)-registered insect repellent with one of the following active ingredients – DEET, picaridin, oil of lemon eucalyptus or para-menthane-diol, or IR3535. When used as directed, insect repellents are the BEST way to protect yourself and family members from getting sick from mosquito bites.
- Cover up: Wear long-sleeved shirts or pants.

Treat items, such as boots, pants, socks, and tents, with permethrin or buy permethrin-treated clothing and gear.

- Keep mosquitoes outside: Stay in places with air conditioning or that use window and door screens. If you are not able to protect yourself from mosquitoes inside your home or hotel, sleep under a mosquito bed net.
- Eliminate mosquito breeding grounds: Once a week, empty and scrub, turn over, cover, or throw out items that hold water, such as tires, buckets, planters, toys, pools, birdbaths, flowerpots, or trash containers. Check inside and outside your home. Mosquitoes lay eggs near water.

For more information about avoiding mosquito bite and mosquito-borne diseases, visit [www.cdc.gov/zika](http://www.cdc.gov/zika).

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

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# Harford County to host free emergency prep training

Harford County

Find out what you need to know to protect yourself and your loved ones during a fire, cybersecurity attack, natural disaster, and other emergencies.

When it comes to emergencies and disasters, it's not a question of IF, but WHEN. The demands placed upon first responders increase dramatically in an emergency and their ability to respond quickly can be significantly impacted. Additionally, the next emergency may cause power to be out for an extended period of time. Consider the following questions regarding personal preparedness:

- Do I have an emergency supply kit?
- Do I have drinking water (one gallon per person/per day for at least three days)?
- Do I have a working radio and flashlight with fresh batteries?

- Do I have extra medications on hand and do I have extra supplies for my pets?
- Can my family be self-sufficient for 72 hours or longer?
- Do I have the correct type of fire extinguisher and do I know how to use it properly?
- Do I know the basic steps to help save a life?

Registration is now open for the popular "Prepare Because You Care" emergency preparedness training program for community members, developed by the Harford County Department of Emergency Services.

The program's next four-week session will be held every Wednesday beginning Sept. 14 through Oct. 5 from 7 to 9 p.m. at the Department of Emergency Services located at 2220 Ady Road in For-

est Hill.

The program is free; however, registration is required as space is limited and available seats fill up quickly. Participants must be over 18.

Topics covered will include the following:

- Sept. 14 - Emergency Management 10; Maryland Disaster History; Cybersecurity; Assembling a Disaster Supply Kit
- Sept. 21 - Fire Safety in the Home; Basic Fire Suppression
- Sept. 28 - Crime Prevention and Awareness (presented by the Harford County Sheriff's Office)
- Oct. 5 - Hands-Only CPR and Basic First Aid; Graduation

For additional class information and to register online, visit <http://www.harfordcountymd.gov/1721/Prepare-Because-You-Care>.



Photo by Lauren Finnegan, APG News

## ROTC cadets receive metabolic testing at APG Army Wellness Center

Mollie McCloskey, an ROTC Cadet from Temple University gets her resting metabolic rate tested while on a tour of the Army Wellness Center on APG North (Aberdeen) in August. McCloskey and other cadets had the opportunity to shadow medical personnel on post as part of the Army Medical Department internship program.

The APG Army Wellness Center offers free metabolic testing and other services to all Kirk U.S. Army Health Clinic-eligible clients as well as Department of the Army civilians.

## BY THE NUMB#RS

### National Preparedness Month

Since 2004, the Federal Emergency Management Agency, or FEMA, celebrates September as National Preparedness Month in an effort to educate Americans about how to plan for a disaster. Creating an emergency kit for your family is one of the important aspects of being ready should a natural disaster strike, and many more can be found at [ready.gov](http://ready.gov).

**240 million**

Number of 911 calls made in the U.S. every year.

**218 million**

People affected on average, by natural disasters worldwide each year between 1994 and 2013.

**116**

Years since America's worst natural disaster, the Galveston Hurricane.

**90**

Percent of disasters in the U.S. involving some sort of flooding.

**37.4**

Percent of Americans who have set up an emergency meeting location with their family.

**3**

Recommended days' worth of food for each family member in case of an emergency.

By **LAUREN FINNEGAN**, APG News

Source(s): <http://reliefweb.int/report/world/human-cost-natural-disasters-2015-global-perspective>; <https://www.nena.org/?page=911Statistics>; <https://www.dosomething.org/facts/11-facts-about-disasters>; [http://www.census.gov/library/visualizations/2015/comm/how\\_ready\\_are\\_we.html](http://www.census.gov/library/visualizations/2015/comm/how_ready_are_we.html); <https://enlightenme.com/10-natural-disasters/>

# Suicide is preventable

By **YVONNE JOHNSON**  
APG News

According to the American Foundation for Suicide Prevention, suicide is the 10th leading cause of death in the U.S.; each year 42,773 Americans die from suicide; for every suicide, there are 25 attempted suicides; and suicide costs the nation \$44 billion annually.

The APG Army Substance Abuse Program, or ASAP, Suicide Prevention Program Manager Lamont Coger, said this year's Suicide Prevention theme encourages people to "Be there for others."

"Everyday connections can make a big difference to someone," Coger said. "Don't assume someone else will make an effort. Be the one who reaches out."

Be there for others means:

- Make a call
- Send a text
- Grab a cup of coffee
- Take a walk together
- Meet up for a workout
- Stop for a chat at the store

## Be There for Yourself

"Caring for yourself is as important as the care you give to others," Coger said.

- Connect with family and friends
- Go outdoors for a workout
- Get plenty of sleep
- Eat right
- Volunteer for a good cause
- Take your dog for a walk

## When to Be There

"Knowing the signs that someone may be contemplating suicide; knowing what to look for, can make all the difference," Coger said. Look for changes in behavior that could mean that a person needs help.

## Reach out to those who:

- Post negative thoughts on social media
- Act out of sorts or not like themselves
- Struggle with a relationship
- Seem anxious or stressed
- Drink too much

For more information contact Coger at 410-278-7779 or email lamont.a.coger.civ@mail.mil.



**#BeThere**  
Your actions could save a life

**SUICIDE PREVENTION AWARENESS MONTH**

www.DSPO.mil

**Military Crisis Line**  
1-800-273-8255  
PRESS 1



 **APG NEWS**

Visit US online at  
[www.TeamAPG.com/APGNews](http://www.TeamAPG.com/APGNews)



# ALL THINGS MARYLAND

## Maryland 9/11 Rolling Memorial

New memorial to serve as 'everlasting tribute'

By **LAUREN FINNEGAN**  
APG News

Like many Americans, Chuck Ritz, the creator of Maryland's 9/11 Rolling Memorial, can remember where he was and what he was doing when he heard that the North Tower of the World Trade Center was struck by a plane; news that changed the country and the world forever.

Ritz was on his computer when a news flash on the screen started the 24 hour news coverage that would captivate millions.

Ritz, who made the four hour trek to New York City to see the destruction for himself one week later, said he would never forget what he saw as he walked towards ground zero.

"I began to see buildings and cars still covered in dust," he said. "In the 10 hours that I was there, I took over 800 photos, mostly of the people that I passed on the streets, and I realized that even though we all dress, look and speak differently, that day we were all the same. The images that I captured showed fear, pain, loss, and uncertainty, but also of faith, pride, unity and patriotism."

Ritz and his foundation, The Hope and Peace Foundation, are working to make sure that the best of America that came out after those attacks continues by reminding people of that horrific day and to make sure the nation never forgets.

Ritz created the "Path of Honor" where a ¾-mile stretch of highway in Parkton has been decorated with 2,977 flags, one to represent each victim of 9/11. In addition, the foundation has been working on a tribute to the Marylanders who died in the terrorist attacks, and the service members who made the ultimate sacrifice in the two wars that followed.

That tribute won't be another statue, but a rolling memorial that will be shared at schools, community events, and in parades. Ritz said he hopes it will become a "teaching tool... to share the stories" of the Marylanders who lost their lives.

Ritz said the idea for the memorial



Courtesy photo

The Maryland 9/11 Rolling Memorial will feature a large bronze bell similar to this 500-pound Bell of Remembrance pictured here. Bells of Remembrance have marked Sept. 11 commemorations in New York, Boston, and Shanksville, Pennsylvania each year since 2002. Creators hope the Maryland 9/11 Rolling Memorial, to be unveiled on Sunday, Sept. 11, 2016, will serve as an everlasting tribute to the Marylanders who died in the terrorist attacks and a way to educate future generations about the tragedy.

was inspired by the Bells of Remembrance, a 9/11 memorial project conceived by Brother David Schlatter

as a tribute to his friend and mentor, Father Mychal Judge, chaplain to the New York City Fire Department and

the first certified victim of the 9/11 terrorist attacks.

The bells are rung in New York, Boston, and Shanksville, Pennsylvania every year to commemorate each person that died in the terrorist attacks and are also displayed at commemorative events.

Ritz and The Hope and Peace Foundation have borrowed one of Schlatter's bells for the Maryland memorial. The Maryland 9/11 Rolling Memorial features the bell along with four bronze plaques inscribed with the names of those lost and the timeline of events on 9/11.

Maryland State Senator Katherine Klausmeier, a member of Ritz's team who helped produce the memorial, said that when she saw the Path of Honor flags last year in Parkton, she was so touched by the sight that she knew that it was something she needed to be a part of. Besides helping to place the flags this year, she also helped to make sure the rolling memorial became a reality.

"September 11, 2001 impacted so many lives and changed us all forever," Klausmeier said. "As time passes on we can never forget. We have to make sure that generations in the future remember what happened then. The rolling memorial is a great way to do just that."

The memorial will be unveiled Sept. 11 at 6:45 p.m. at the foundations' 6th annual Spirits in the Night 9/11 Candlelight Vigil at McAvoy's Sports Bar and Grill, located at 2531 Putty Hill Ave in Parkville.

The names of the 68 victims of 9/11 from Maryland and the 138 service members lost in Operations Iraqi and Enduring Freedom will be read and their photos will be displayed during the event, and two search lights will light up the sky to recreate the twin towers.

Ritz said he'd like people of all the generations to come out, "to learn of those who were killed and of those who died protecting our freedom."

"The memorial will... be an everlasting tribute."

### Maryland 9/11 Victims

The names of the following Marylanders will be inscribed on the Maryland 9/11 Rolling Memorial. These individuals were killed during the Sept. 11, 2001 terrorist attacks in New York City, Washington D.C. and Shanksville, Pennsylvania.

Max Beilke | Kris Romeo Bishundat | Carrie Blagburn | Donna Bowen | Christopher L. Burford | Angelene Carter | Sharon A. Carver | William E. Caswell | Sarah Clark | Julian T. Cooper | Asia S. Cottom | Patricia Cushing | Ada Davis | Wayne Terrial Davis | James Daniel Debeuneure | Valerie Silver Ellis | Charles S. Falkenberg | Zoe Falkenberg | Dana Falkenberg | Jamie L. Fallon | Amelia V. Fields | Gerald Fisher | Sandra N. Foster | Lawrence D. Getzfred | Cortz Ghee | Col. Ronald F. Golinski | Ian J. Gray | Michele Heidenberger | Sheila Hein | Jimmie Ira Holley | Angela M. Houtz | Barbara A. Keating | Brenda Kegler | Paul Laszczynski | Samantha Lightbourn-Allen | Alan Patrick Linton Jr. | Joseph V. Maggitti | Shelley A. Marshall | Renee Ann May | Daniel Walker Mcneal | Ronald D. Milam | Gerard P. "Jerry" Moran | Odessa V. Morris | Teddington Hamm "Ted" Moy | Christopher W. Murphy | Jonas Martin Panik | Lt. J.G. Darin Howard Pontell | Scott Powell | Joseph J. Pycior Jr. | Todd Reuben | Cecelia E. Richard | Linda Rosenbaum | Robert E. Russell | William R. Ruth | Karen Lynn Seymour | Antoinette "Toni" Sherman | Patricia J. Statz | Edna L. Stephens | Hilda E. Taylor | Willie W. Troy | Ronald J. Vauk | Honor Elizabeth Wainio | Leslie A. Whittington | Ernest M. Willcher Esq. | Marvin Roger Woods | John D. Yamnicky Sr. | Edmond Grafton Young Jr. | Lisa L. Young

### Leave Donations

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

#### Employees eligible for donations in the Voluntary Leave Transfer Program

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Branscome, Teresa A.  
Caprio-Smith, Christina  
Cerqueira, Cheryl M.  
Clapham, Ann M.  
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Coleman-Jones, Nancy  
Conley, Andrew  
Crowder, Phillip N.  
Dissek, Michael J.  
Diveley, Roberta R.  
Donlon, Jacqueline A.  
Ellis, Gibson, Tanya J (T'Jae)  
Freeney, Reygan  
Gaddis, Lonnie  
Gilley, Christopher M.  
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Humphries, Theresa

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Kuciej, Andrea D.  
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Ocampo, Suleida M.  
Moss, Monique R.  
Peduzzi, Jill L.  
Puhalski, Kiyoko R.  
Rahman, Tupa C.  
Redman, Corinne L.  
Rodriguez, Pedro  
Ruff, Albert L.  
Smith, Bridgette N.  
Smothers, Sharon L.  
Snodgrass, Deananne

Solomon, Je'Neane  
Taliaferro, Trinia L.  
Thompson, Curtis  
Tisdale, Dorris A.  
Trulson, David K.  
Vaccaro, Dominic S.  
Villanueva, Jenny

# Emergencies can happen unexpectedly

By **YVONNE JOHNSON**  
APG News

Emergencies can happen unexpectedly. For example, on an average Wednesday morning, Joe Jones is at work on an Aberdeen Test Center range, his wife Jean Jones is caring for patients in a Havre de Grace senior assisted living care center and their son, 4th-grader Tommy Jones is in class at Aberdeen Middle School.

Without warning, a freight train derailed in Abingdon, spewing toxic chemicals into the air. County and state Emergency Operations Centers in the affected regions of Harford, Cecil and Baltimore counties spring into action. Across the region, employees are told to shelter in place. In the schools, children are ushered into cafeterias and gyms to await further orders; they are told they will not be going home this evening and little else.

On APG the post is closed and everyone – Soldiers, civilians, contractors, family members, visitors, delivery drivers, daycare center workers, commissary employees – EVERYONE – shelters in place. Neither office nor cell phones are operational. Channel 11, 13 and 2 news is the only source of information. And there is nothing for Joe, Jean or Tommy Jones to do but sit and wonder about each other.

It can happen that quickly with no warning.

September is National Preparedness Month, as well as Maryland Preparedness Month, and the Maryland Emergency Management Agency, or MEMA, is sending out reminders that now is a good time to review emergency preparations.

During a recent interview, with WBAL TV while assessing the impact from Hurricane Hermine, as it passed Maryland, MEMA executive director, Russ Strickland, said now is the time to prepare.

“We need to remember that this is the most likely time of the year for a hurricane to hit our area,” Strickland said. “Don’t wait until a disaster is on your doorstep to start preparing.”

## Emergency Preparedness Communication Plan

According to [www.ready.gov](http://www.ready.gov), creating a Family Emergency Communication Plan starts with one simple question: “What if?”

“What if something happens and I’m not with my family?” “Will I be able to reach them?” “How will I know they are safe?” “How can I let them know I’m



OK?”

During an emergency it may be near impossible for separated family members to contact each other. Communication networks, such as mobile phones and computers, could be unreliable, and electricity could be disrupted. Planning in advance will help ensure that all the members of the household know how to reach each other and where to meet in an emergency. Planning starts with three easy steps: Collect. Share. Practice.

### Collect: Information

- Create a paper copy of the contact information for family and members and other important people/offices, such as medical facilities, doctors, schools or service providers.
- Write down phone numbers and email addresses for everyone in the household. Having this information in writing will ensure you have access to it if your batteries run down.

Disasters can strike during school. Familiarize yourself with the school’s emergency procedures. Discuss these plans with your children and let them know who would pick them up in an emergency. Ensure household members are signed up for alerts and warnings from their school, workplace and/or local government.

### Out-of-town contact

It’s important to identify someone outside of the community or state who can act as a central point of contact to help your family members reconnect. During a disaster

it may be easier to call long-distance than locally.

### Emergency meeting place

Decide on safe, familiar places where family members can go for protection or to reunite. Consider accessibility for disabled family members and animal-friendly sites for pets. Designate at least one place that is indoors, in your neighborhood and outside of your neighborhood.

### Share: Ensure everyone has the information

Make sure each family member carries a copy in his or her backpack, purse or wallet. Family Emergency Communication Plans can be completed online at [ready.gov/make-a-plan](http://ready.gov/make-a-plan), and can be printed onto a wallet-sized card. The complete list should also be posted in the home in a central location, such as on the refrigerator or family bulletin board.

Store at least one emergency contact under the name “In Case of Emergency” or “ICE” in everyone’s cell phone or device.

Create a group list of all emergency contacts on all mobile phones and devices

Read: Be Smart, Know Your Alerts and Warnings at <http://1.usa.gov/IBDloze> and sign up to receive emergency information

Preparedness involves much more than preparing emergency kits. Learn more at [www.ready.gov](http://www.ready.gov), or [fema.gov](http://fema.gov).



Photo by Sgt. 1st Class Terry Keith, MRICD

## MRICD supports local students and teachers

Members of the U.S. Army Medical Research Institute of Chemical Defense Community Outreach Committee, joined by MRICD Commander Col. Margery Hanfelt, visit Edgewood Elementary, Aug. 23, to drop off boxes of donations, including pencils, crayons, markers, colored pencils, composition books, glue sticks, scissors, containers for pencils, and gift incentives for the students as well as hand sanitizer, tissues, pens, and cleaning supplies for the teachers.

Pictured (from left) are MRICD’s Spc. Robert Haggins, Spc. Shasta Gutierrez, Spc. Victor Galvez, and Sherwin Sapasap; and Edgewood Elementary Principal Cynthia L. Womack and Assistant Principal Jeanne M. Gentile.

## At Your Service: Top of the Bay

Here’s what Top of the Bay staff had to say when the APG News asked them about the best part of their job and their favorite menu item.



Chicken Chesapeake is my favorite. It’s chicken with a crab cake on top, and it is the best thing in life.

**Jessica Boyington**



Chicken Cordon Bleu is my favorite dish to make. It has a honey Dijon sauce that goes on top of it that’s very good. I like that we make our food from scratch.

**Justin Goins**



Gives the food at Top of the Bay two thumbs up.

**Kai Mosby**



My favorite thing about working at Top of the Bay is the passion I have for cooking and the people. The Chicken Marsala is delicious.

**Preston Sadler**



Sometimes people have stress at work, so when they come in, you have to make sure they can forget about work while their eating, so when they go back to work they’re happy people.

**Teresa Wood**

Visit Top of the Bay for lunch Tuesday through Thursday, 11 a.m. to 1 p.m. For current menu items visit [www.apgmwr.com](http://www.apgmwr.com).

# K9s train to detect homemade explosives



Deputy Ron Hoover, a K-9 officer with the Cumberland County, Pennsylvania Sheriff's Department, gives his German Shepard, Magnum directions before starting the National Odor Recognition Test (NORT), given by the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) on APG Aug. 30- Sept. 1.

## Town hall reminds all to stop for bugle calls

Continued from Page A1

tion, the installation's senior noncommissioned officers, Command Sgt. Maj. Matthew D. McCoy of CECOM and Garrison Command Sgt. Maj. Toese Tia Jr., were also in attendance.

Crawford encouraged listeners to use the services currently available to them.

"If we have a service and you want to keep it, then use it," he said. "Someone is always checking the books and if it's actually costing the Army money and people aren't using it, then expect it to go away."

Crawford encouraged the community to take the time to familiarize themselves with the requirements for when Reveille and Retreat are sounded and adhere to them.

"We don't have that many Soldiers [on post] but there's plenty of veterans and retirees," he said, adding that "some folks are taking shortcuts and being disrespectful," when the songs are played.

Crawford introduced Col. Peter Mueller, the new chaplain of the Communications-Electronics Command, and talked about readiness, the top priority of Army Chief of Staff Gen. Mark A. Milley.

In keeping with readiness and force protection, Davis brought up APG Director of Emergency Services Stephen Jellie to brief community members on the Automated Installation Entry systems, set to go operational later this year, which involves swiping an ID card to gain access to APG.

Jellie said the operation is moving forward but the AIE does not mean reduced guard presence on the gates.

"This is the kind of system that requires personnel," he said, adding that they are "looking for a mid-November to December kickoff."

He said the AIE will make the community safer and "provide very detailed checks of those hoping to gain entry."

He added that the thoroughness of the system may provide problems for some current CAC holders but those would be handled individually.

"If you have parking tickets or anything else on that vehicle, it will show up," Davis added.

### Zika and mosquito surveillance

Lt. Col. Wesley J. Anderson, KUSAHC commander, provided a Zika virus update consisting of general information and actions in place, as well as actions that will be taken if APG receives travel-related or locally-acquired Zika cases.

Currently there are no locally-

acquired cases in Maryland and people should take the standard mosquito precautions. These include mitigating breeding sites such as standing water in man-made objects; and avoiding travel to areas at high-risk for Zika or with known Zika cases.

"A lot is going on surrounding Zika and handling a potential outbreak," Anderson said, noting that several major health organizations recently gathered at APG to discuss Zika.

Measures already in place include conducting vector surveillance for mosquitos carrying the virus by KUSAHC, Environmental Health specialists and the Directorate of Public Works.

In addition the Harford County Public Health Department, the Walter Reed National Military Medical Center and several other agencies are monitoring the situation in Maryland.

Responses to a diagnosis of Zika virus will depend on if the case is travel-related or locally acquired, but everyone should take the standard precautions – including staying indoors instead of sitting on the patio at night – to avoid the virus, Anderson said.

### DPW

Updates from the Directorate of Public Works included discussion of the new ceremonial sign under construction at the Route 715 gate and the installation of new marquees, or light up signs, at the main post chapel, the Express and the Route 715 and 22 gates.

### MWR

APG MWR encouraged attendees to attend Oktoberfest, a German-style festival for the entire community, set for Sept. 16-17. Events include a Volksmarch, car and bike show, Bingo, family entertainment, and German cuisine, music and beer, centered at the APG North (Aberdeen) recreation center. Check [www.apgmwr.com](http://www.apgmwr.com) for more information.

### Corvias

Corvias Military Living reminded all attendees that Department of Defense contractors are eligible to rent homes in the government housing area. For more information, contact Corvias Military Living at <http://apg.corviasmilitaryliving.com> or call 410-305-1076.

Questions for the APG Garrison Commander can be submitted online by visiting [www.teamapg.com](http://www.teamapg.com) and clicking the "ICE Comment" button. Questions for the APG Senior Commander can be submitted online by visiting [www.teamapg.com](http://www.teamapg.com) and clicking the "Ask the Senior Commander" button.

Continued from Page A1

National Canine Division in Port Royal, Virginia who organized the event, explained that during the imprint process, the K-9s are brought up to the scent, allowed to sniff it, and told to sit. This is repeated several times until the K-9s recognize that they are going to get rewarded for recognizing the scent.

"One of the main reasons why we're here is to expose the dogs to types of homemade explosives, because that's the stuff they're finding in theater," Monday explained.

Pfc. Jonathan Cortes, an Army Military Working Dog Handler with the 50th MWD out of Fort Polk, Louisiana attended the event with his dog Vito. Cortes, who has only been working with Vito for six months, said he was glad that they were able to attend event to gain experience and because he knows how important explosive detection dogs can be to the military.

"In all seriousness, the dogs can make the difference between making it home safe for any Soldier out there," he said.

Deputy Ron Hoover, a K-9 officer with the Cumberland County Sheriff Department in Pennsylvania, was also at the event with his dog Magnum, a European Shepard who he has been working with for more than two years. Hoover said he wanted Magnum exposed to a different type of test that he's not accustomed to.

Hoover said Magnum accompanies him on bomb calls, inspects unattended packages, and is also trained to track people such as Alzheimer's patients and lost children.

Hoover said, "If he learns to drive and answer a radio, I'm out of a job."

Rondone said that with the ever changing threats that face communities and the military, the training that the dogs received will help law enforcement to continue to keep military and civilian communities safe.

"We... believe the training that was afforded to us and the other jurisdictions that surround us will only further our knowledge and ability to assess possible threats in the near future," he said.



Dargo, a K-9 with the York County Sheriff's Office sniffs for the scent of an explosive material with his handler, Lt. David Godfrey, during the Bureau of Alcohol, Tobacco, Firearms and Explosives training and National Odor Recognition Test held at APG from Aug. 30 - Sept. 1.

# MARK YOUR CALENDAR

**MORE ONLINE**

More events can be seen at [www.TeamAPG.com](http://www.TeamAPG.com)

## EVENTS & TOWN HALLS

### SERGEANT AUDIE MURPHY CLUB INDUCTION SEPTEMBER 9

Bldg. 6000 (Myer Auditorium), 10 a.m. APG Chapter of the Sergeant Audie Murphy Club will induct new members Sgt. 1st Class Joseph M. Scalies, CECOM; Staff Sgt. Nickolas S. Gordon, 20th CBRNE Command; and Staff Sgt. Mercedes N. Smith, also of 20th CBRNE Command. For more information, contact Sgt. 1st Class April Marinakes at 410-436-0322 or email [april.l.marinakes@mail.mil](mailto:april.l.marinakes@mail.mil).

### TAPS GOLF OUTING SEPTEMBER 15

Ruggles Golf Course, 9 a.m. Hosted by EOIR Technologies. Registration fee is \$105 for industry personnel, \$80 for government civilians and service members. Registration includes breakfast, lunch, prizes & more. For more information, call 410-306-8721.

### HISPANIC HERITAGE MONTH OBSERVANCE SEPTEMBER 22

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

## MEETINGS & CONFERENCES

### FINANCIAL PEACE UNIVERSITY SEPTEMBER 13 - NOVEMBER 29

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

### FIRE EXTINGUISHER TRAINING SEPTEMBER 15

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

### AMERICAN SIGN LANGUAGE CLASS STARTS SEPTEMBER 20

Each Tuesday, Sept. 20 through Dec. 13. Bldg. E4301, Classroom 99; 11:30 a.m. – 12:30 p.m. Free Basic class and advanced class available. Bring lunch. Textbook "A B C, A Basic Course in American Sign Language" can be purchased online. For more information, contact Randy Weber at 410-436-8546.

### EEO HR FOR IMCOM SUPERVISORS TRAINING SEPTEMBER 22

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

### FIRE MARSHALL TRAINING SEPTEMBER 27

Bldg. E4810. 9 a.m. to noon. Hosted by the APG Directorate of Emergency Services Fire Protection & Prevention Division. Attendees will receive a certificate of completion at the end of the class. For more information, contact Inspector Loren Brown at 410-278-1128.

### HEALTH & RESILIENCY HOME RUN TO HEALTH EXPO SEPTEMBER 15

Bldg. 330, 11 a.m. to 1 p.m. Various vendors, giveaways, samples and health screenings. Special appearance by Iron Birds mascot. For more information, contact Lori Wohr at 410-278-3352 or [lori.a.wohr.civ@mail.mil](mailto:lori.a.wohr.civ@mail.mil).

### CHILDHOOD OBESITY INFO SESSION SEPTEMBER 15

Bldg. 6000 (Myer Auditorium), 11:30 a.m. to 12:30 p.m. Dr. Allison Agwu will provide attendees with ways to keep children healthy, as well as teach fun parent-children fitness activities. For more information, contact Tiffany Grimes at 443-861-7901 or [tiffany.l.grimes.civ@mail.mil](mailto:tiffany.l.grimes.civ@mail.mil).

### MENTAL HEALTH INFO SESSION SEPTEMBER 20

Bldg. 6001, 2nd Floor, Room 224. 11:30 a.m. to 12:30 p.m. This presentation explores the Transcendental Meditation technique as a means to reduce anxiety, depression, and other symptoms of post-traumatic stress. Open to

installation employees, military and contractors. Non-C4ISR employees must bring CAC to gain access to the building. For more information, contact Tiffany Grimes at 443-861-7901 or [tiffany.l.grimes.civ@mail.mil](mailto:tiffany.l.grimes.civ@mail.mil).

### CPR & AED TRAINING SEPTEMBER 22

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

### C4ISR CPR & AED TRAINING SEPTEMBER 29

Bldg. 6001, 2nd Floor, Room 224. 11 a.m. to 1 p.m. Registration required. Open to C4ISR employees, military and contractors. For more information, or to register, contact Tiffany Grimes at 443-861-7901 or [tiffany.l.grimes.civ@mail.mil](mailto:tiffany.l.grimes.civ@mail.mil).

## ANNOUNCEMENTS & MISCELLANEOUS

### LEADING IN THE ACQUISITION ENVIRONMENT COURSE

SEPTEMBER 27-30  
Bldg. 6175, Guardian Gateway, 8 a.m. to 5 p.m. Hosted by Defense Acquisition University. Course provides an overview of the competencies and skills needed to lead in an acquisition environment. Experiential activities include role playing, simulation, communication, and critical-thinking exercises; a leadership challenge; and completion of a 360 degree feedback instrument and executive coaching to develop action plans related to the feedback. Level III certification in at least one acquisition career field and at least three years of Level III experience are required prerequisites for the course. Upon completion, students will earn 31 Continuous Learning Points. Applications due Sept. 6. For more information, visit <http://www.dau.mil/training/Pages/apply.aspx> or contact Ben Metcalfe at [benjamin.metcalfe@dau.mil](mailto:benjamin.metcalfe@dau.mil) or 410-272-9471.

### 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.

### FORGING STAKEHOLDER

### RELATIONSHIPS COURSE OCTOBER 5-7

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

### APG SOUTH 2016 WATER MAIN FLUSHING

The APG South (Edgewood) 2016 water main flushing schedule is as follows: Through September: E3000-E4000 area; 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](mailto:robert.w.warlick2.civ@mail.mil).

### CHANGE IN MASS SCHEDULE

There are no longer weekday masses at the APG South (Edgewood) chapel. Weekday mass is held Tuesday-Friday at the APG North (Aberdeen) main post chapel at 11:45 a.m. Confessions on request. For more information, contact Joyce Wood at 410-278-4333 or [joyce.l.wood.civ@mail.mil](mailto:joyce.l.wood.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 fourth Thursday each month by the APG Garrison, the event includes awards and decorations provided to retirees and their spouses. Photo DVDs are provided to each retiree after the ceremony. All Soldiers and civilians are eligible to participate, regardless of unit or organization. For more information, contact Lisa M. Waldon at 410-278-4353 or email [lisa.m.waldon.civ@mail.mil](mailto: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

For more upcoming events visit [www.apgmwr.com](http://www.apgmwr.com).

## SAVE THE DATE

### APG OKTOBERFEST SEPTEMBER 16-17

APG North (Aberdeen) recreation center and surrounding grounds. 4 to 7 p.m. Sept. 16; 11 a.m. to 7 p.m. Sept. 17. Annual Oktoberfest celebration will include Festhalle, German food and beverages, entertainment, family fun area, bingo and more. Volksmarch and Car & Bike show set for Sept. 17. For more information, visit [www.apgmwr.com/2016-oktoberfest](http://www.apgmwr.com/2016-oktoberfest).

## 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.

### BINGO MONDAY & WEDNESDAY

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

## CHILD & YOUTH SERVICES

### FAMILY MOVIE NIGHT SEPTEMBER 9

APG North (Aberdeen) recreation center. 6 p.m. "Ratchet Clank." Free movie, giveaway, and craft activity. Food available for purchase. For more information, call 410-278-4011.

### LET'S COOK CLASSES SEPTEMBER 10

Corvias Community Center. 9 a.m. to noon.

Ages 7+. \$20 fee. To register, call 410-278-7571.

### LET'S COOK CLASSES OCTOBER 15

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

### FAMILY MOVIE NIGHT SEPTEMBER 23

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

### SESAME STREET USO EXPERIENCE FOR MILITARY FAMILIES SEPTEMBER 30, 2 P.M.

OCTOBER 1, 1 P.M.

APG North recreation center. Tickets available starting Sept. 7 at Bldg. 2503, APG South CDC, Bayside CDC, APG North CDC. Maximum of 8 tickets per family. Free admission for military families and their children. Open to all DOD ID card holder family members. For more information, call 410-278-4589.

## SPORTS & RECREATION

### DRIVING AWAY DOMESTIC VIOLENCE GOLF TOURNAMENT SEPTEMBER 14

Ruggles Golf Course. 11 a.m. registration and lunch; 1 p.m. shotgun start. 4-person scramble, captain's choice. Open to men and women. Cost is \$45 per person, includes golf, cart, food and prizes.

### SENIOR SCRAMBLE SEPTEMBER 19

Exton Golf Course. 9 a.m. Food and drink included. Members \$30, Authorized patrons \$35, guests \$40. Call 410-436-2213 for more information.

## ARMY COMMUNITY SERVICE

### SMART START YOUR SMALL BUSINESS SEPTEMBER 28

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



**APG Oktoberfest**  
ABERDEEN PROVING GROUND

**September 16 and 17**  
FRIDAY, September 16: 4-7 p.m.  
SATURDAY, September 17: 11 a.m.-7 p.m.  
**FREE Event To The Public**  
**Volksmarch!**  
Event day registration: 10-11 a.m.  
**Family Fun Area!**  
Festhalle with German Entertainment!  
German Food & Beverages!  
**BINGO! Car & Bike Show!**

For more info call 410-278-4011  
[www.apgmwr.com/2016-Oktoberfest](http://www.apgmwr.com/2016-Oktoberfest)



**The Sesame Street / USO Experience**  
for Military Families

2 Shows: Sep 30 & Oct 1  
AA Rec. Center, Bldg 3326

inside

**COLLABORATION**

The recent Innovation Summit explores existing, future partnerships between Army, industry and academia.

Army | B2

**AUTOMOTIVE**

RDECOM and GM are set to announce fuel-cell vehicle with military applications at AUSA.

Fuel-cell | B3

**ENGINEERING**

Tobyhanna Depot develops engineering solution set to save Army \$12 million over next three years.

Innovative | B4

newsbrief

**ENDURING VALUE OF ARMY FORCES**

TRADOC

The Army must be ready to meet an increasingly dangerous national security environment as overseas commitments grow. Risk to national security is increasing due to improving adversary capabilities, Army reductions in manpower and resources, and increasing global commitments. Army forces must have the capability, capacity and readiness to accomplish assigned missions while confronting increasingly dangerous threats in complex operational environments.

The Enduring Value of Army Forces concept explains the importance of ready land forces that are able to prevent conflicts, shape security environments and win future wars.

Through collaboration and learning, focused investment, and continuous analysis and assessment, ideas manifest as doctrine, organization, training, materiel, leadership and education, personnel, and facilities solutions. Army leaders use the Think - Learn - Analyze - Implement paradigm to increase the combat effectiveness of the future force. Army leaders must think clearly about future armed conflict, learn about the future, and analyze what they learn.

There is a collaborative effort across the operating and generating forces, the joint community, industry, and academia to design and build the future Army. Ongoing analysis through the warfighting challenges allow the Army to develop strategies to mitigate capability gaps.

For more information, visit [www.tradoc.army.mil](http://www.tradoc.army.mil).

online

[www.TeamAPG.com/APGNews](http://www.TeamAPG.com/APGNews)

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

[twitter.com/USAGAPG](https://twitter.com/USAGAPG)

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

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

# Army launches Rapid Capabilities Office

By **LT. COL. JESSE STALDER**  
OCPA

The Army has created a Rapid Capabilities Office to expedite critical technologies to the field in an effort to counter urgent and emerging threats.

The new office will conduct rapid materiel development and delivery efforts to address immediate, near-term, and mid-term Combatant Commanders' needs. It will focus on rapid prototyping and initial equipping of capabilities, beginning with the areas of cyber, electronic warfare, survivability and positioning, navigation and timing, as well as other priority projects that will enable Soldiers to decisively operate and win in contested environments.

Beyond closing current capability gaps, the Army Rapid Capabilities Office also aims to stimulate aggressive, proactive capability development and leverage disruptive technologies to meet Army strategic objectives.

Secretary of the Army Eric K. Fanning directed the creation of the office and announced its establishment during an event in Washington on Wednesday, Aug. 31.

"We're serious about keeping our edge, so we need to make changes in how we get Soldiers the technology they need," Fanning said. "The Army Rapid Capabilities Office is a major step forward, allowing us to prioritize cross-domain, integrated



U.S. Army photo

The Army has established a Rapid Capabilities Office to conduct rapid materiel development and delivery efforts to address immediate, near-term, and mid-term Combatant Commanders' needs.

capabilities in order to confront emerging threats and advance America's military dominance."

Although flexible in its capability, the Army Rapid Capabilities Office will focus on high-priority, threat-based projects with

an intent to deliver an operational effect within one to five years. The organization will execute analysis, prototyping, development, procurement and limited fielding for

See **RAPID CAPABILITIES**, page B7

# ECBC tests sensor integration in Utah

**EDGEWOOD CHEMICAL BIOLOGICAL CENTER**

The U.S. Army Edgewood Chemical Biological Center, known as ECBC, joined with technology developers from private industry and other Army and joint organizations to test a new integrated system of chemical and biological agent sensors Aug. 15-26 at Dugway Proving Ground's West Desert Test Center in Utah.

The test took place at a U.S. Army Test and Evaluation Command technology demonstration called the SK Challenge. The ECBC team participated after nearly a year of preparation. Scientists and engineers from across ECBC worked together to develop an unmanned aerial vehicle they call Deep Purple and modified an unmanned ground vehicle known as the Mobile Detection Assessment and Response Sys-



ECBC Director Dr. Joseph Corriveau holds Deep Purple, an unmanned aerial vehicle developed by ECBC, which proved its ability to intercept a chemical agent simulant cloud and identify the simulant at the SK Challenge.

tem, or MDARS, for the event.

These systems operated as platforms for chemical and bio-

logical sensors which were tested against a variety of simulant agents to see if the sensors could

correctly identify them. ECBC scientists and engineers modified existing sensor packages to fit inside a thermos-shaped container called the Array Configurable of Remote Network Sensors, called ACORNS, that is affixed to the bottom of Deep Purple or is mounted on the roof of MDARS. Those sensor packages include the Tactical Biological Generation II Detector, called TACBIO, which rapidly detects the presence of an airborne biological threat, and the Joint Chemical Agent Detector, which is an automatic chemical warfare agent detector.

In many ways, Deep Purple was the star of the show for ECBC. It is a carbon fiber quad copter drone made up of commercial off-the-shelf parts developed in partnership with the Johns Hopkins Physics Lab-

See **DEEP**, page B7



Photo by Stephanie Slater, TRADOC

## 'We are a joint force now,' according to Fanning

While visiting Joint Base Langley-Eustis, Virginia, Aug. 25, Secretary of the Army Eric K. Fanning looks at a navigational chart with Spc. Bruce Pritchard, the leading seaman for the Army Vessel Aldie (LCU-2004). During the visit, Fanning said he wants the nation at large to understand its Army, and the DOD, better.

"We are a joint force now. We rely on the Air Force. We rely on the Navy, but they all definitely rely on us," he said. "Where that joint fight comes together in so many ways is on the ground with the Army. We need to think about that and talk about that differently than we do and really embrace what we do in support of the joint force that nobody else can do in our military or any of the militaries in the world."

# Army Innovation Summit highlights industry, academia collaborations

By **TRACIE R. DEAN**

U.S. Army Research Laboratory

Military and civilian leaders from across the Army took part in the Army Innovation Summit 3 held Aug. 16-17 at the College of William and Mary in Williamsburg, Virginia.

The two-day event, co-hosted by the U.S. Army Materiel Command with the U.S. Army Training and Doctrine Command, focused on the Army's materiel enterprise with an emphasis on identifying opportunities to impact and innovate the Army materiel life cycle in conjunction with industry and academia partners.

Army leaders conceived the idea for an innovation summit as part of a long-term Innovation Campaign Plan focused on far-term Army modernization. Previous Army Innovation Summit themes have been: Innovation Summit 1 defining innovation barriers and identifying possible solutions; Innovation Summit 2 refining innovation solutions, assigning ownership and implementing action plans.

Undersecretary of the Army Patrick Murphy gave opening remarks, and Undersecretary of Defense for Acquisition, Technology and Logistics Frank Kendall gave the keynote speech. Acting Assistant Secretary of the Army for Acquisition, Logistics and Technology Katrina McFarland and Director of the Army Quadrennial Defense Review Office Maj. Gen. James Richardson, as well as industry and academia representatives, highlighted collaborative programs and initiatives across the Army science and technology community.

The U.S. Army Research Laboratory featured three exhibit displays:

- Cooperative Guard
- Advanced Protection Technologies
- Fuel cell powered Stalker XE UAS

"The Stalker provides intelligence, surveillance and reconnaissance capabilities in a platform offering extended endurance and range and quick turn-around capabilities," said Dr. Deryn Chu of ARL's Energy and Power Division. "These capabilities have primarily been used by small units at the company and battalion levels to date."

Both acting Deputy Assistant Secretary of the Army for Research and Technology Dr. Thomas Russell and acting ARL Director Dr. Phil Perconti attended the event.

"We are very much about discovery and innovation," Perconti said. "When we do transition, we often



Photo by Tom Faulkner, RDECOM

**Deryn Chu from the U.S. Army Research Laboratory, right, discusses the fuel cell powered Stalker unmanned aerial system with Gen. Dennis L. Via, commander of the U.S. Army Materiel Command, during the Army Innovation Summit 3.**

talk about transition from a knowledge product point of view. We are very much about transitioning fundamental understanding, foundational understanding of the way you take science and technology, and apply it to Army problems."

Perconti said in order to be a more cohesive research community and facilitate cooperation, "we must deal with the question of how to eliminate the barriers."

"The first thing we did, with the help of AMC, was remove the barriers to our laboratory in Adelphi, Maryland, by putting infrastructure and security in place and by piloting a study where we have physically opened up our laboratories so that our partners can come work in our laboratories side by side with our researchers," Perconti said. "Eighty percent of what

we do is in the public domain. We protect what we need to protect, we have a layered security approach to this. What it allows us to do is offer up an opportunity for real collaboration, real partnership."

As the summit drew to a close it was evident that the Army innovation and modernization theme was embraced across the Army S&T community, Perconti said.

"Throughout the summit the focus was on innovation," he said. "When you think about what's next, you have to come back to disruptive innovation and the breakthrough domain; that is where ARL lives. This is the space we want to operate in. If you think about it in the context of options, these disruptive innovations present us options for the future and that is the context that makes this so very important."

# Latest howitzer shows what it can do at Cold Regions Test Center

By **MARK SCHAUER**

ATEC

Soldiers depend on self-propelled howitzers for mobility and punishing firepower in combat situations.

Last winter, a high impact, multi-month evaluation at the U.S. Army Cold Regions Test Center, or CRTC, helped ensure the latest generation of self-propelled howitzers works even in the world's coldest environments. The Paladin Integrated Management (PIM) evaluation is a massive effort verifying the effectiveness of a host of improvements to the venerable M109 Paladin self-propelled howitzer, the most common platform of its kind in the world.

With a wider stance than its predecessor, the M109A7 variant is more stable and adept at absorbing the howitzer's powerful recoil as it fires. Beneath the armor, a new engine identical to that found in the Bradley Fighting Vehicle puts out nearly 200 more horsepower than the power plant in the last version of the Paladin. The engine delivers power to the tracks via a transmission that also comes to the platform from the Bradley, an interchangeability of components that helps mechanics. The platform's stowage capacity for artillery shells has been increased and sophisticated digital communications, fire control, and navigation systems have been improved. While previous incarnations of the Paladin used a hydraulic system to operate such components as the cab and ammunition rammer, the PIM uses a generator that pushes out a whopping 70 kilowatts of electricity, enough power to run an entire 40 house neighborhood block.

Though the weather this past winter at CRTC didn't reach the jaw-dropping temperatures of -50 degrees Fahrenheit or more below zero that are typical, the variation didn't faze the testers.

"Early on we knew it was going to be a relatively warm winter, but it was determined we would still get worthwhile data," said Elizabeth Palm, test officer. "We can't control the weather, but we can adjust it to take advantage of the coldest times."

The coldest times still saw the mercury plunge below -25 degrees Fahrenheit, and Palm and the crew had much to do. The PIM accumulated hundreds of miles on CRTC's punishing road



Photo by Sebastian Saarloos

**Soldiers depend on self-propelled howitzers for mobility and punishing firepower in combat situations. Earlier this year, a high impact, multi-month evaluation of the M109A7 Paladin at U.S. Army Cold Regions Test Center, or CRTC, helped ensure the latest generation of self-propelled howitzers works even in the world's coldest environments. The platform accumulated hundreds of miles on CRTC's punishing road courses, and undertook braking and acceleration tests at CRTC's automotive test track, as seen here.**

courses, and undertook braking and acceleration tests at CRTC's automotive test track. Throughout the course of the evaluation, CRTC testers fired hundreds of rounds from the howitzer's 155mm cannon at multiple angles and with varying propelling charges. The firing tests were not gentle, but simulated the kind of rapid firing that Soldiers in combat depend on for survival.

Further, the engine was subjected to cold starts in temperatures well below zero, oftentimes after having cold air blown on its engine from tubular fans to ensure a maximum of frigidness.

"The convective flow assists in cooling the component fluid temperatures more quickly than cold soaking alone,"

explained Palm.

For the testing at CRTC, skilled mechanics from Yuma, Arizona, capable of rapidly repairing both the Bradley and M109A7, spent weeks supporting the test in Alaska, as did vehicle operators whose previous experience on the vehicle was gained in the desert southwest. All told, more than 25 individuals traveled from Yuma to the frigid interior Alaska winter to support the test. Likewise, Palm spent five months in Yuma last summer assisting with testing of the system in the extreme heat, and felt the experience was useful.

"I liked working on the system there and knowing what was coming up," she said. "That made the test a lot easier."

The test was in progress during a site visit from Army Test and Evaluation Command commander Maj. Gen. Daniel Karbler, who saw firsthand the critical importance of natural environment testing.

"It's almost impossible to drive something in a conditioning chamber," he said. "You can certainly chill it down to a certain temperature, but that's about the extent of it. When you want to put it in operation, put loads on it, and use it in the whole of the environment, it is totally different. A cold chamber has a place in initial testing, but once you put something into operation, you have to take it out into the environment."

# Fuel cell electric vehicle results from Army/General Motors partnership



By **KIMBERLY BRATIC**  
TARDEC

General Motors and the U.S. Army Tank Automotive Research, Development and Engineering Center will reveal a Chevrolet Colorado-based fuel cell electric vehicle in October at the fall meeting of the Association of the United States Army in Washington, D.C.

The vehicle is being developed under an agreement signed in 2015 between TARDEC and GM. The collaboration enables TARDEC to access consumer-driven automotive technology for use in military applications while providing GM with feedback on non-standard fuel cell-technology applications.

The Army will use the vehicle to demonstrate the capabilities a fuel-cell electric powertrain can bring to the military, including quieter mobility, exportable power generation, low-end torque and water generation. The Army intends to conduct user assessments and demonstrations in 2017.

“Hydrogen fuel cells as a power source have the potential to bring to the force incredibly valuable capabilities,” TARDEC Director Paul Rogers said. “We expect the vehicle to be quiet in operation and ready to provide electricity generation for needs away from the vehicle. With fuel cell technology advancing, it’s an ideal time to investigate its viability in extreme military-use conditions.”

“Fuel cell propulsion has low-end torque capability that is useful in an off-road environment. It also offers additional characteristics attractive to both commercial and military off-road use.”

Rogers said the vehicle will not succeed the Humvee in the field.

“This project is another example of how fuel cell propulsion can play a role in non-traditional applications,” said Charlie Freese, executive director of GM’s Global Fuel Cell Activities. “We need to continue pursuing these opportunities along with our plans for production of a commercial fuel cell program in the 2020 time frame.”

# Director of Program Innovation and Integration visits Army Research Laboratory

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

U.S. Army Research Laboratory officials recently welcomed the director of Program Innovation and Integration for a morning of briefings and meetings with scientists and engineers.

Maj. Gen. Jim Richardson, a master Army aviator and attack helicopter pilot, is the former commanding general of the Aviation and Missile Command at Redstone Arsenal, Alabama.

“We perform the foundational research with emphasis on unique Army problems,” Dr. Philip Perconti, acting ARL director, briefed Richardson. “What we do informs Army investments for future warfighting capabilities.”

During demonstrations, researchers explained how understanding and studying neuroscience is helping to raise the effectiveness of machine learning. The general watched as a team of humans worked with a computer algorithm to identify potential threats in images.

Richardson also learned how Army researchers are advancing material science to enhance Soldier protection efforts.

Engineers showed laboratory research into the “hoverbike,” a rectangular shaped quadcopter that has since been named the Joint Tactical Aerial Resupply Vehicle, or JTARV.

“Anywhere on the battlefield, Soldiers can potentially get resupplied in less than 30 minutes,” said Army researcher Tim Vong. “We’re working with users in the joint community to look at this concept.”

Richardson said he is interested in looking to maintain the Army’s superiority into the far future.

“We understand your value,” Richardson told his briefers.



Army researcher Dr. Jean Vettel (left) explains how her team is using neuroscience to understand and enhance manned-unmanned teaming during a brief to Maj. Gen. Jim Richardson Aug. 23, 2016, at Aberdeen Proving Ground, Maryland. Richardson is director of Program Innovation and Integration for the Vice Chief of Staff of the Army.



U.S. Army Research Laboratory acting Director Dr. Philip Perconti, right, answers questions about the Joint Tactical Aerial Resupply Vehicle from Maj. Gen. Jim Richardson Aug. 23, at Aberdeen Proving Ground, Maryland. Richardson is director of Program Innovation and Integration for the Vice Chief of Staff of the Army.

## WORD OF THE WEEK

### Draconian

Pronounced: drey-KOH-nee-uh n

Part of Speech: Adjective

#### Definition:

1. Of, relating to, or characteristic of the Athenian statesman Draco, or his severe code of laws.
2. Rigorous; unusually severe or cruel: Draconian forms of punishment.

#### Use:

The Nazis destroyed the independence of the press by a series of draconian laws.

- ‘There was a time when I would have argued that our libel laws were draconian and should be amended.’
- ‘The editorial criticizes the draconian measures being taken to control the spread of the disease.’

Source(s): [www.merriam-webster.com](http://www.merriam-webster.com); [www.dictionary.com](http://www.dictionary.com); [www.oxforddictionaries.com](http://www.oxforddictionaries.com)

## ACRONYM OF THE WEEK

### TANC

The Office of Trade Agreements Negotiations & Compliance



TANC, a division of the U.S. Department of Commerce, helps make workable trade agreements for American exporters and investors. Its officers seek to eliminate foreign government-imposed trade barriers by supporting U.S. efforts to negotiate new international trade agreements, or ITA, and ensuring existing agreements deliver the market access and fair treatment promised.

Through participation in U.S. trade policymaking and coordination of the ITA Trade Agreements Compliance Program, TANC focuses on the areas where foreign trade barriers most often affect U.S. industry, including but not limited to:

- Technical Barriers to Trade, including unfair testing, labeling, or certification requirements,
- Government Procurement problems,
- “Border Barriers” such as burdensome customs procedures or import licensing requirements, incorrect valuation or classification of exports, problematic rules of origin or marking requirements, and,
- Discriminatory Investment requirements.

Sources: <http://tcc.export.gov>; [www.commerce.gov](http://www.commerce.gov)

# 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 1978.

By **YVONNE JOHNSON**, APG News



## 10 Years Ago

*Sept. 14, 2006*

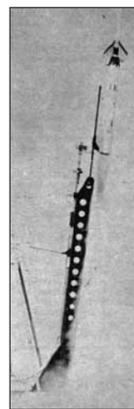
A Marine from the Ordnance Center and School's Marine Corps Detachment places a set of ID tags on a memorial to fallen Ordnance warriors during the post 9-11 Remembrance Ceremony.



## 25 Years Ago

*Sept. 11, 1991*

Mechanical engineering technicians Ron Rodecker, left, and Dave Mackenzie, of the Ballistic Research Laboratory's Armor Mechanics Branch, fine tune adjustments on a modified 120-mm gun system on Range 14.



## 50 Years Ago

*Sept. 8, 1966*

A NIKE-JAVELIN-3 missile slated to be used in a joint U.S. - Brazil atmospheric data-collecting project, sits on a Ballistics Research Laboratory launching rack.

# Innovative solution saves \$12 million, new test set expands depot capability

Story and photo by **JUSTIN EIMERS**  
Tobyhanna Army Depot

An innovative engineering solution developed at Tobyhanna Army Depot in Pennsylvania will save the depot more than \$12 million over the next three years, exceeding Tobyhanna's Value Engineering, known as VE, savings goal while improving component-level reliability within various systems.

Dr. Clinton Holder, an electronics engineer in the depot's Production Engineering Directorate, designed a test set that will evaluate the detector/cooler bench, or DCB, a major component of the Long Range Advance Scout Surveillance System, or LRAS3, for faults and failures. The second generation forward looking infrared, called SGFLIR, B-kit DCB allows the system into which it is installed to generate a clear infrared image of the battlefield.

LRAS3 is a long-range multi-sensory system that provides real time ability to detect, recognize, identify, and geo-locate distant targets and improvised explosive devices.

Program Manager – Ground Systems, known as PM-GS, Fort Belvoir, Virginia, started an overhaul program for the LRAS3 and tasked Tobyhanna with replacing the DCB in all applicable assets due to poor reliability of a continuously operating mechanism. With each replacement unit at a cost of more than \$33,000, Holder realized the need for an alternative.

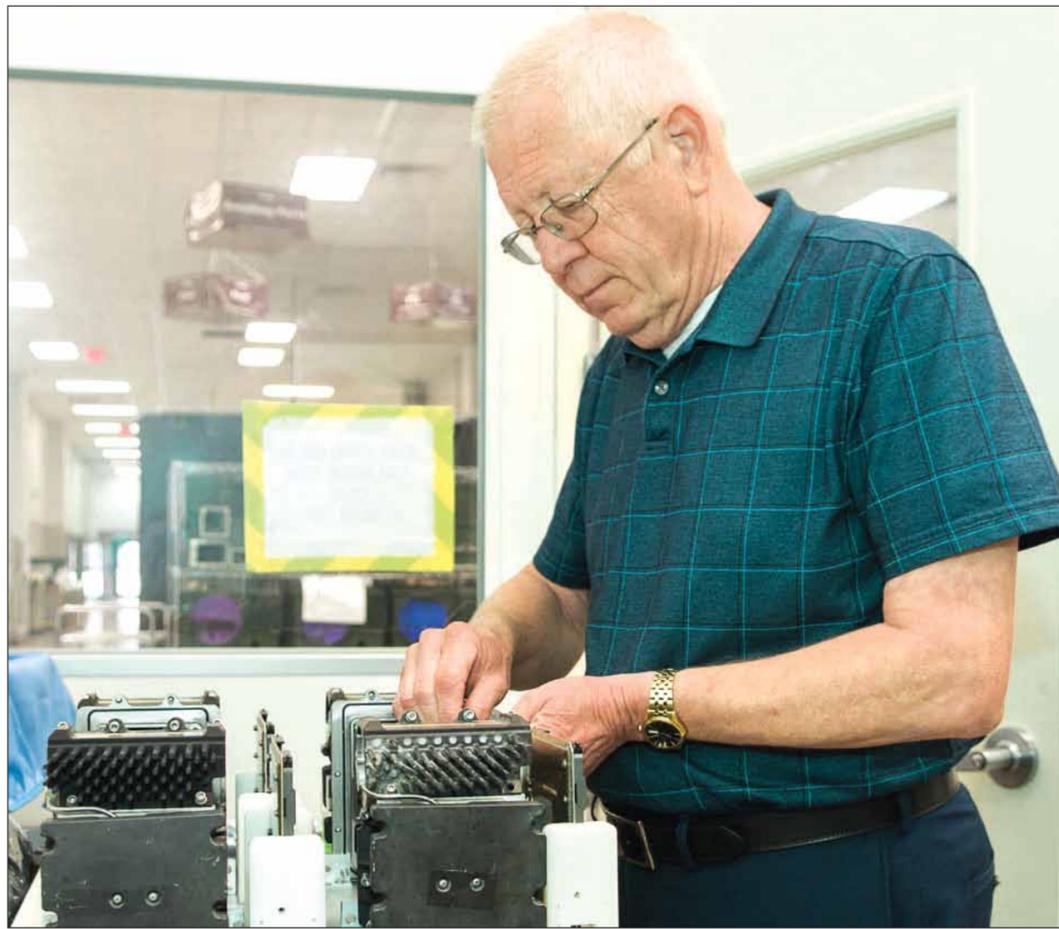
"Rather than replace the whole DCB because of failing cryocooler subassemblies, I designed a test set which provided in-house testing capability to verify that all specifications are met while exposed to extreme differences in temperature," said Holder, adding that this will allow engineers to replace certain components rather than the entire DCB. The fiscal 2016 program requires 138 assets needing DCB replacement at a total cost of \$4.6 million. Cryocooler replacement and testing is just over \$4,000 per unit, resulting in a savings of \$3.9 million for all units this year.

Two test stations were constructed in Tobyhanna's engineering lab to carry out two tests — environmental stress screening and final acceptance. The first test requires recording the voltage, current and temperature every minute for 12 hours. The second involves eight hours of exposure to extreme changes in temperature during which the DCB is turned on and off repeatedly. Measurements are taken every 10 seconds. In both tests, the automated test set has the ability to simultaneously pass or fail up to four DCBs.

Since its inception, more than 100 cooler benches have had their cryocoolers replaced, successfully tested and have been certified for use. The units are also major components of the Abrams M1A2 commander's independent thermal viewer and Bradley Fighting Vehicle's improved Bradley acquisition subsystem.

James Waters, electronics engineer in the Continuous Process Improvement Directorate, spoke highly of both the work done by Holder for the LRAS3 mission and Tobyhanna's VE initiatives.

"I've been associated with value engineering for more than five years and Holder's proposal is the second-highest cost avoidance total I've seen for a proj-



Dr. Clinton Holder, an electronics engineer at Tobyhanna Army Depot, designed a test set that will evaluate the detector/cooler bench, a major component of the Long Range Advance Scout Surveillance System, for faults and failures.

ect," he said. "Not only did Tobyhanna surpass its VE savings goal in excess of \$7 million, but CECOM was able to meet their goal as a result of savings associated with this effort."

Waters is the depot's VE study facilitator.

John Link, systems engineer assigned to the SGFLIR system at PM-GS, highlighted the impact of the test set on this and other missions.

"This has proven to be a positive effort since costs to inspect, repair and test are much less at Tobyhanna than if the original equipment manufacturer had performed them," he said. "Abrams [tanks] and Bradley [fighting vehicles] are actively working towards the goal of full repair capability of FLIR systems."

Waters explained the importance of using this solution as a benchmark for future efforts.

"The more things we do to save money, improve processes and make our products better, the more successful we will be in our mission to deliver readiness around the globe," he said.

Tobyhanna Army Depot is a recognized leader in providing world-class logistics support for command, control, communications, computers, intelligence,

surveillance and reconnaissance systems across the Department of Defense. Tobyhanna's Corporate Philosophy, dedicated work force and electronics expertise ensure the depot is the Joint C4ISR provider of choice for all branches of the Armed Forces and industry partners.

Tobyhanna's unparalleled capabilities include full-spectrum logistics support for sustainment, overhaul and repair, fabrication and manufacturing, engineering design and development, systems integration, post production software support, technology insertion, modification, foreign military sales and global field support to joint warfighters.

About 3,200 personnel are employed at Tobyhanna, which is located in the Pocono Mountains of northeastern Pennsylvania. Tobyhanna Army Depot is part of the U.S. Army Communications-Electronics Command. Headquartered at Aberdeen Proving Ground, Maryland, the command's mission is to research, develop, acquire, field and sustain communications, command, control computer, intelligence, electronic warfare and sensors capabilities for the armed forces.

# Civilians complete supply chain management certification

By **ALESSIA C. CATENA**  
Integrated Logistics Support Center

Single Channel Ground to Air Radio System, or SINCGARS, Team Lead Jake Pezzicola and Lead Inventory Management Specialist Michael Dooney, from the Program Executive Office - Command Control Communications Tactical, known as PEO-C3T, Tactical Radio Division have successfully completed Cohort 3 of the Towson University Supply Chain Management Post-Baccalaureate Certificate program.

Classes were held at satellite locations on APG, and the Higher Education & Applied Technology (HEAT) Center in Aberdeen.

The intense and demanding program consisted of five integrated core classes aimed at improving organizational efficiency and effectiveness, as well as further developing each student's understanding of supply chain strategies and analytical skills. Material covered included: procurement and sourcing, operations, logistics and distribution and analytics.

"This program was beneficial for both my organization and myself," Dooney said. "It helped me fine tune my logistic skills and look at an organization's supply chain analytically so that I could provide increased value to our customers and our organization. It also helped me realize the importance of prioritizing long-term gains over short-term ones as well as understanding the total cost involved with every decision we make as logisticians."

The courses in the certificate program are comprised of the first five courses of Towson University's Master of Science in Supply Chain Management -- Maryland's only M.S. degree program in this subject. This allows students who complete the certificate program to continue on to the



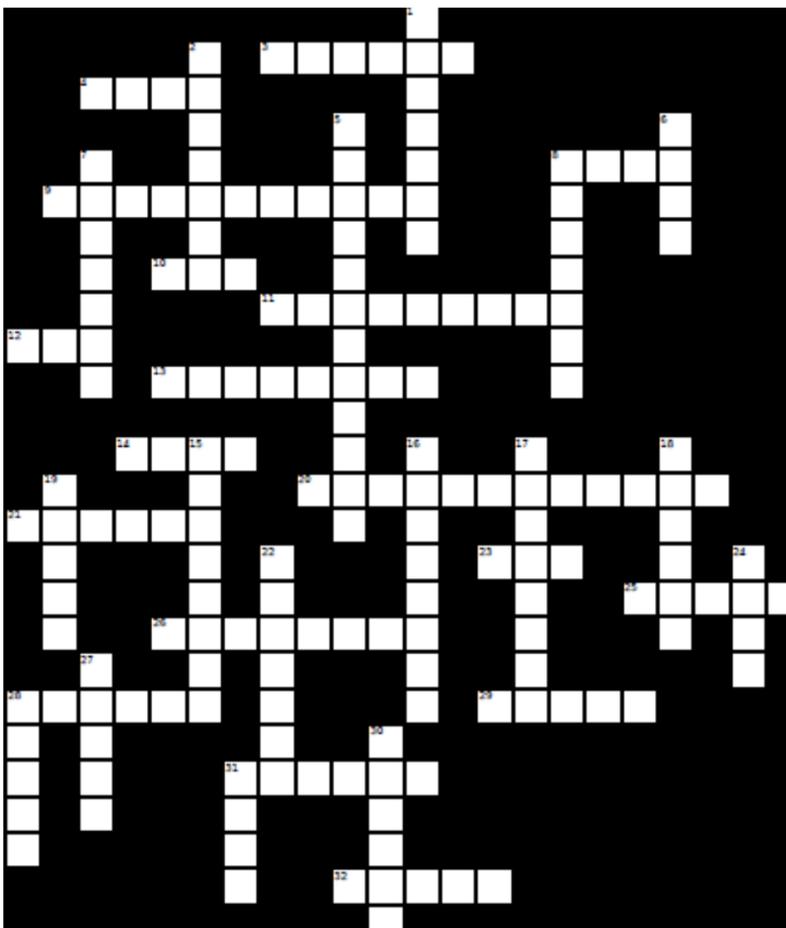
Mike Dooney, left, and Jake Pezzicola, right, pose with their congratulatory cake before digging in. Both C3T employees successfully completed Cohort 3 of the Towson University Supply Chain Management Post-Baccalaureate Certificate (PBC) program in August at APG.

master's program if they choose to do so. Pezzicola and Dooney, along with four other C3T colleagues, are candidates to receive additional funding to complete the master's curriculum in

spring 2017.

To mark the success of Pezzicola and Dooney, PEO C3T Tactical Radio branch chiefs Cecilia Magee and Mike O'Donnell hosted a hearty

celebration, calling the achievements of the team a great example of those who are taking the necessary steps to ensure efficient productivity for all our service members.



## The APG Crossword Baltimore Ravens

The Baltimore Ravens' season starts Sunday, Sept. 11. Get ready for some football with this Ravens-themed puzzle.

By **RACHEL PONDER**, APG News

### Across

- In 2013, this Baltimore Ravens player was named the MVP of Super Bowl XLVII.
- Number of seasons John Harbaugh has served as head coach of the Baltimore Ravens.
- The Baltimore Ravens met this U.S. President in 2001.
- On June 5, 1996, Baltimore Ravens' uniforms were revealed during a fashion show at this shopping, dining and entertainment destination.
- Number of times the Baltimore Ravens have made the post-

season playoffs.

- Current owner of the Baltimore Ravens.
- Number of times the Ravens have competed in and won the Super Bowl.
- To be inducted into the Baltimore Ravens' Ring of Honor a member of the organization must possess seven traits of character: gratitude, vision, passion, faith, courage, competitive spirit, and \_\_\_\_\_.
- Name of the Baltimore Ravens' football outreach program.
- Ed Reed, a former Baltimore

Ravens safety, holds the NFL's all-time record in \_\_\_\_\_ return yards.

21. Name of the official Baltimore Ravens club created just for women.

23. The Baltimore Ravens' name was inspired by the poem "The Raven," by this 19th century poet.

25. This middle linebacker was considered the "face of the franchise," until his retirement in 2013.

26. This current Baltimore Ravens wide receiver attended the U.S. Naval Academy in Annapolis. He was a quarterback for the Navy Midshipmen football team.

28. The Baltimore Ravens are headquartered in \_\_\_\_\_ Mills, Maryland.

29. Group of Ravens fans.

31. To show support for their team, during the NFL regular season, Ravens fans wear purple on this day of the week.

32. Ted Marchibroda, the first head coach of the Baltimore Ravens, also served as the head coach of the Baltimore \_\_\_\_\_ from 1975-1979.

### Down

1. This former Baltimore Ravens running back starred in the E! reality television series "Famously Single."

2. He was named as the Baltimore Ravens' general manager in 2003, becoming the first minority general manager in National Football League history.

5. The Baltimore Ravens are the only team in the NFL to hold a perfect record in multiple Super Bowl and \_\_\_\_\_ Day appearances.

6. The 2009 movie "The Blind Side" is a movie about the early years of this former Baltimore Ravens offensive tackle. He currently plays for the Carolina Panthers.

7. After playing as a Baltimore Ravens wide receiver from 1996 to 1998, he served as mayor of his hometown in Tangipahoa, Louisiana.

8. The second head coach of the Baltimore Ravens.

15. The Pittsburgh \_\_\_\_\_ is considered the Ravens' biggest rival.

16. Director of the 2009 documentary, "The Band That Wouldn't Die," which follows the story of Baltimore's Marching Ravens.

17. The Ravens' first game was held in \_\_\_\_\_ Stadium.

18. In 2014, he was voted to the 2015 Pro Bowl, making him the first Baltimore Ravens player to be selected in his rookie season.

19. In 2011, he was named the NFL Defensive player of the year.

22. Two African Ravens, Rise and \_\_\_\_\_ are official team mascots that live at the Maryland Zoo in Baltimore.

24. Number of Baltimore Ravens wins during the 2015 season.

27. Number of years Art Modell owned the Baltimore Ravens.

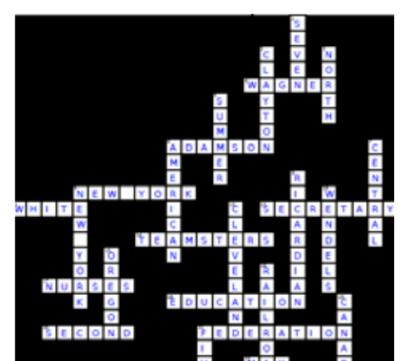
28. In 2013, he became the first player drafted by the Ravens to be elected to the Pro Football Hall of Fame.

30. The song, "Seven \_\_\_\_\_ Army" by The White Stripes, is played during Ravens games to pump-up the crowd.

31. The Baltimore Ravens have \_\_\_\_\_ American Football Conference North, or AFC North, division titles.

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

Solution to the September 1st puzzle



# Rapid Capabilities Office to target investments

Continued from Page B1

select high-priority capability solutions.

The Army Rapid Capabilities Office is distinct from the Army Rapid Equipping Force, which has a 180-day turnaround time and delivers specific equipment to meet the urgent operational needs of forward-deployed units. The Rapid Capabilities Office will provide commanders of select formations, and areas of responsibility, with broader capability solutions, delivering a combined operational effect.

The Rapid Capabilities Office will provide expertise not solely focused on materiel; it seeks to provide holistic solutions that inform the doctrine, organization, training, materiel, leadership, personnel, facilities and policy impacts of implementing new capabilities within the operational Army. The office will leverage innovation by other government agencies and industry partners, as well as warfighter feedback, to deliver solutions on an accelerated timeline.

"This office is vitally important to the Army's acquisition reform efforts, but at the same time, it's not a substitute for the acquisition practice," said Katrina McFarland, the Army acquisition executive.

"The goal of the Army Rapid Capabilities Office is not to procure systems to outfit the entire Army, but rather to use targeted investments to execute strategic prototyping, concept evaluation and limited equipping -- especially in areas where technology progresses rapidly. It will help commanders and Soldiers in the field today, while building an advantage for those who will follow in their footsteps."

The Rapid Capabilities Office is a total Army effort that will leverage capabilities and expertise from across the service, especially the Army staff, program

**“Our adversaries are modernizing at a rapid rate, and in some cases our capabilities are inadequate to keep up. To maintain our edge, it’s vital that we can evolve existing and new technology at a pace that keeps it relevant to today’s and tomorrow’s conflicts.”**

**Maj. Gen. Walter E. Piatt**

Deputy Director for Operations, Rapid Capabilities Office

executive offices, training and doctrine community, intelligence community and science and technology community.

The Rapid Capabilities Office will report to a board of directors led by the Secretary of the Army and will be led on a day-to-day basis by Rapid Capabilities Office Director Douglas K. Wiltsie. Wiltsie previously served as the executive director, System of Systems Engineering and Integration, Office of the Assistant Secretary of the Army (Acquisition, Logistics and Technology), and as the Program Executive Officer for

Enterprise Information Systems.

"If we want to operate in an environment where we are leading and causing our adversaries to react to us, we need to take risks," Wiltsie said. "The Army Rapid Capabilities Office is designed to take those technology risks, and to give us the agility to incorporate disruptive capabilities quickly when they can make a difference for our soldiers."

The Rapid Capabilities Office will incorporate early and prominent warfighter involvement into the requirements gathering and prototyping process to ensure that materiel solutions are not only vetted by operators but also delivered to units as a holistic capability with the right support and tactics, techniques and procedures in place.

In addition to having an operational community presence on the Army Rapid Capabilities Office staff and providing matrix support, the office will work with receiving units or their representatives to confirm Soldier utility of prototypes and expedite the test and evaluation process.

"This office will address capability gaps that we're seeing in real time, right now from our commanders in the field," said Maj. Gen. Walter E. Piatt, who will serve as the Rapid Capabilities Office Deputy Director for Operations.

"Our adversaries are modernizing at a rapid rate, and in some cases our capabilities are inadequate to keep up. To maintain our edge, it's vital that we can evolve existing and new technology at a pace that keeps it relevant to today's and tomorrow's conflicts."

For more information about the Army Rapid Capabilities Office, contact Lt. Col. Jesse Stalder at Jesse.h.Stalder.mil@mail.mil, or 703-693-5084.

# Deep Purple, MDARS used as chem/bio sensors

Continued from Page B1

oratory for the Defense Threat Reduction Agency. It is unique because it is capable of carrying a five-pound payload of sensors.

The ECBC Advanced Design and Manufacturing Branch used its 3D printing capability to include a number of innovations. They include hollow arms holding the propellers which house wires internally. Also the team printed its airframe using printed circuit boards rather than functionally inert carbon fiber to allow direct, real-time communication between the payload and the drone operator. The information provided by the sensors can be passed to Soldiers in the field and command and control in real time from as far away as two miles.

The testing took place entirely at night in order to catch just the right desert wind effects, which only occur after 11 p.m., and the team worked intently every night until 5 a.m. Upon each agent release, the drone would lift straight up, green and red lights blinking, and head off into the desert night to intercept the agent simulant cloud. Likewise, the unmanned ground vehicle traveled down dirt roads following the vectors provided by a laser detection system operated from a nearby trailer.

"We are taking the opportunity of the SK Challenge to see how well Deep Purple, MDARS, and the sensors operate as reliable and responsive chemical and biological early warning sensor technologies," said ECBC team leader and principal investigator Dr. Alan Samuels. "We saw that the chemical sensors mounted on Deep Purple worked well at intercepting the cloud and identifying the simulants. However, our biological agent sensor, TACBIO, is too large for Deep Purple and only worked on MDARS. It needs to be miniaturized for that purpose. The SK Challenge proved its value to ECBC by revealing what our system does well and where it needs more work. We'll come back next year having built upon what we learned this time."

The annual SK Challenge offers participants a low-cost opportunity to



An interdisciplinary team of ECBC scientists and engineers receives data on a simulated chemical agent release and directs unmanned aerial and ground vehicles carrying sensors to intercept and identify it at the SK Challenge at Dugway Proving Ground.

operate technology they have under development in a collaborative environment, according to Russell Bartholomew, one of the event organizers and a test officer in ECBC's newly established Bio-Testing Branch at Dugway.

"It's a cost-sharing event that attracts participants from DOD organizations, private industry, and international partners alike," Bartholomew said. "They get to work together using their individual technologies in concert, and the U.S. Army Test and Evaluation Command gets to see what technologies are out there and how far along they are in their development."

The ability of ECBC scientists not only to remotely direct these platforms, but to also collect the sensors' incoming data in a single information sharing system, was just as much a new cutting edge technology as operating the autonomous drones.

"This is a system of systems, every

part has to be able to communicate with every other so it works as an integrated system," said Steven Lagan, a team member from ECBC's Modeling, Simulation, and Analysis Branch. "We get data on the location and movement of the simulant cloud from stationary sensors, which we can then send to our sensor-mounted vehicles. The sensors then communicate to us the identity of the agent, which we share with all the other participants, and if this were real, the chain of command, through a common operating language."

Creating a common language that could be used by all the participants and the sensors alike was a project of just as great a magnitude as creating and perfecting the drones and unmanned vehicles.

"We're working with lots of different components from all over the country, every component is like its own project," said Max Bottiger, a team member in

ECBC's Battlefield Information Branch. "We had to invent pieces of software code compatible with the Army's common operating language to make it all work together. We wrote all the programs from top to bottom as well as laterally."

ECBC Director Dr. Joseph Corriveau came out from ECBC headquarters at APG to see the technology demonstration for himself and was impressed.

"A diverse set of professionals working together made this happen. Not only the brightest people from private industry and other Army and joint organizations, but scientists and engineers from many different branches, divisions and directorates within ECBC," he said.

"There is a huge push from the Department of Defense to get on the forefront of this technology. This shows that we are collaborating to position ourselves well ahead of the rest of the world in chemical biological defense."



## Did You Know?

**The National Park Service turned 100 years old Aug. 25.**

As the National Park Service celebrates its centennial this year, it is also celebrating the start of another century of stewardship of the nation's national parks by encouraging the public to rediscover national parks and programs in their own back yard.

Start with a visit to the NPS website at <https://www.nps.gov/subjects/centennial/index.htm> to search listings of parks in every state. The site includes information about the 100th birthday commemorative coins and stamps, upcoming events, and opportunities to volunteer and get involved with some of the nation's most treasured or historical sites, from battlefields to nature preservations.

In Maryland, National Park Service sites include the Antietam National



Battlefield; Fort McHenry; the Chesapeake Bay Water Shed; Assateague Island; part of the Appalachian Trail; the city of Baltimore-- a National Heritage Area; Fort Foote, the Clara Barton National Historic Site; and much more.

Established by Congress through the National Park Service Organic Act and signed into law by President Woodrow Wilson on Aug. 25, 1916, the National Park Service is charged with preserving the ecological and historical integrity of the locations entrusted to its management, as well as making them available and accessible to the public for enjoyment. The service oversees more than 84 million acres of land across the United States.

To learn more about National Park Service locations in surrounding areas, visit:

- **Maryland:** <https://www.nps.gov/state/md/index.htm>
- **Delaware:** <https://www.nps.gov/state/de/index.htm>
- **New Jersey:** <https://www.nps.gov/state/nj/index.htm>
- **Pennsylvania:** <https://www.nps.gov/state/pa/index.htm>
- **Washington, D.C.:** <https://www.nps.gov/state/dc/index.htm>
- **Virginia:** <https://www.nps.gov/state/va/index.htm>

By **YVONNE JOHNSON**, APG News

Sources: [www.theodoreroosevelt.org](http://www.theodoreroosevelt.org); [www.wikipedia.org](http://www.wikipedia.org)



**September 16 and 17**

**FRIDAY, September 16: 4-7 p.m.**

**SATURDAY, September 17: 11 a.m.-7 p.m.**

**FREE Event To The Public**

**Volksmarch!**

**Event day registration: 10-11 a.m.**

**Family Fun Area!**

**Festhalle!**

**German Entertainment!**

**German Food & Beverages!**

**BINGO! Car & Bike Show**



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