



# APG NEWS

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

www.TeamAPG.com

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APG dispatchers utilize improvements at the 911 call center to better serve Team APG.

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## newsbrief

### INSTALLATIONS

#### EMPOWER ARMY TO FOCUS ON READINESS

Office of the Assistant Chief of Staff for Installation Management

U.S. Army installations provide secure and sustainable facilities and infrastructure that support combatant commanders' top priorities, enable Army missions, and maintain Soldier and unit readiness.

Army Readiness starts on the 156 installations and more than 1,100 community-based Army National Guard and Army Reserve Centers worldwide where Soldiers live, work and train.

Army installations build readiness by training and developing Soldiers who are mentally and physically fit to withstand the intense rigors of ground combat.

The Army will continue to: (1) Reshape installation services to focus resources on readiness and divest of unneeded facilities to reduce excess infrastructure. (2) Invest in emerging missions such as cyber security, home-station mission command, force protection and Force of the Future. (3) Leverage more partnerships and increase third-party investments to strengthen Soldier and Family readiness programs.

Well-maintained installation infrastructure enhances projection of national power and enables the Army to deploy ground forces, prevent conflict, shape outcomes and conduct military operations.

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Photo by Molly Blossie, APG News

APG Senior Commander Maj. Gen. Bruce T. Crawford talks about future innovations and maintaining a state of readiness on Aberdeen Proving Ground during the opening ceremony for the new Combined Heat and Power plant at APG South (Edgewood), July 19. A ceremonial "chain-cutting" following his remarks signified the plant's official opening.

## A future of sustainable energy

### New Combined Heat & Power plant opens on APG South

By **YVONNE JOHNSON**

APG News

The culmination of innovative thinking focused on conservation and sustainability was realized, July 19, during the official opening of the new Combined Heat and Power plant on APG South (Edgewood).

The product of the Energy Saving Perfor-

mance Contract project #8 replaces the capabilities of the local Waste-to-Energy plant and supports crucial Army research and development and chemical/biological facilities located on APG South.

APG Senior Commander Maj. Gen. Bruce T. Crawford, commander of the U.S. Army Communications-Electronics Com-

mand said the passion and dedication that went into the project was impressive.

"It's not just a passion for saving money, it's not just a passion for energy, but a passion for things like innovation. As I've said many times, the thing that concerns me

**See POWER, page A7**

## APG Garrison welcomes new CSM

By **RACHEL PONDER**

APG News

Soldiers and civilians welcomed the APG Garrison's new senior enlisted leader during an assumption of responsibility ceremony at the Ball Conference Center on APG North (Aberdeen), July 14.

Command Sgt. Maj. Toese Tia Jr. comes to APG from the U.S. Army Materiel Support Command-Korea.

APG Garrison Commander Col. James E. Davis presided over the ceremony, and led the passing the unit colors to Tia, that symbolized his assumption of responsibility. As the command sergeant major, Tia is the principle advisor to the garrison commander.

**See TIA, page A7**

APG Garrison Commander Col. James E. Davis passes the unit colors to incoming Garrison Command Sgt. Maj. Toese Tia Jr. during an assumption of responsibility ceremony on APG North (Aberdeen), July 14.

Photo by La'Mont Harbison, USAG APG



## Orientation welcomes Team APG's newest members

APG newcomer Lauren Anderson, a SMART scholarship recipient assigned to the environmental engineering department at the U.S. Army Public Health Center, left, chats with Toni Ann Ames, membership chairman for the APG Community Spouses Club, during the Newcomers Orientation, July 13, at the APG North (Aberdeen) recreation center.

APG MWR Army Community Service hosts quarterly Newcomers Orientations for personnel new to the installation; the events outline the host of services available on post and in the local community. The next Newcomers Orientation date will be announced online at [www.apgmwr.com/upcoming-events](http://www.apgmwr.com/upcoming-events).

Photo by Lauren Finnegan, APG News

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STREET TALK

Which summer blockbuster do you plan to see?

I want to see the "Independence Day" sequel ["Independence Day: Resurgence"], with my husband. I heard it was fantastic.



Ingrid King  
Military spouse

I want to see "The Secret Life of Pets." That is the main one on my agenda, because it is a movie that my whole family can see together. Plus I want to know what my dog does when I am not home.



Cleveland Lazenby  
Retiree

I want to see the Alice in Wonderland sequel ["Alice Through the Looking Glass"], because I liked the last one and I am a fan of [producer] Tim Burton.



Mikayla Ewing  
Family member

I plan to take my 5-year-old grandson to see "The Secret Life of Pets." It looks like a funny movie we will both enjoy.



Virna Scott  
CECOM LRC

I think "The Legend of Tarzan" looks pretty cool.



Robert Carpenter  
KUSAHC

Environmental soil removal projects set for APG South

DPW Environmental Division

Starting in July, the APG Directorate of Public Works Environmental Division will conduct several soil remediation projects on APG South (Edgewood).

As part of the APG Installation Restoration Program, the soil clean-ups are being conducted as "non-time critical removal actions" in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act, or CERCLA, program executed in compliance with the APG Federal Facilities Agreement, signed by the U.S. Army and the U.S. Environmental Protection Agency, or EPA, in 1990. The Army's clean-up actions have been approved by the EPA and the Maryland Department of the Environment, or MDE. In addition, a public meeting and a public comment period have occurred, in order to solicit public comment on this project.

Soil removal will be conducted at three separate areas in APG South.

In the cantonment area, four spots of elevated chemical levels in soil at the Douglas Road Munitions Disposal Site (DRMDS), Gun Club Creek Study Area, will be remediated to address unacceptable risks to construction or commercial workers, as well as to some plants and animals. The chemicals in the soil driving the clean-up action are primarily metals, such as lead, cadmium, nickel and zinc. Historically, this area was used by the Army, pre-World War II, as a munitions training site. The maximum depth of soil removal is two feet, and it is estimated that almost 1,800 cubic yards of soil will be removed and disposed of off-site at an approved, permitted landfill. The clean-up site is located south of the E4200 block (occupied primarily by the U.S. Army National Guard) in the vicinity of Beal and Douglas roads, and 57th Street.

In the active range area, portions of historic trenches located on the west side of Ricketts Point Road in M-Field (Swaderrick Watson Creek Investigation Area) are being remediated to address unacceptable risks to some plants and animals. As

with the DRMDS site, the soils contain elevated levels of metals, and soil removal to a maximum depth of two feet will mitigate this risk. Soils will be removed at certain spots in a trench running next to the Prototype Building, and at an additional historic trench site located further south on Ricketts Point Road. Historically, these trenches were used for burning wastes from testing activities and for range clean-up operations. At these sites, approximately 75 cubic yards of soil will be removed and disposed of off-site.

Once confirmation sampling indicates that the soil sites have met established clean-up goals, the sites will be back-filled with clean soil, graded and stabilized. Wetland areas will be stabilized in accordance with best management practices after discussions with the State of Maryland. Remediation work will be accomplished within two to three weeks, and with the use of construction equipment such as excavators, front-end loaders, skid steers, and dump trucks. All soil remediation activities will be conducted in accordance with a health and safety plan that has been accepted by the APG Installation Safety Office, and accordingly all sites slated for excavation will first be screened by a UXO technician, prior to any intrusive activities. In the event of an emergency, the contractors will immediately notify the Directorate of Emergency Services.

The work will be conducted by Environmental Chemical Corporation, under contract with the U.S. Army Corps of Engineers, Baltimore District.

For more than 25 years, the APG Installation Restoration Program has been working with EPA, MDE and the public, studying and addressing contamination on APG from past military activities with a goal of restoring APG lands to usable and safe conditions. Any questions regarding these soil remediation projects can be directed to Allison O'Brien, Other Edgewood Areas Program Manager for the Installation Restoration Program, 410-436-3767 or allison.c.obrien.civ@mail.mil.

Public Health Center tests ticks

Army Public Health Center (Provisional)

As the summer season swings into full gear, Army public health officials want to ensure that Department of Defense personnel are aware of a free service to help combat the threat of tick-borne diseases.

The Army Public Health Center (Provisional) at Aberdeen Proving Ground provides a tick identification and testing service for DOD health clinics in the continental United States. This service is known as the DOD Human Tick Test Kit Program, and it serves as a "first alert" for tick-bite patients and their health care providers.

Although most ticks are not infected with human diseases, some ticks in the United States can carry such diseases as Lyme disease, ehrlichiosis, Rocky Mountain spotted fever and viral diseases.

Army preventive medicine experts say that prompt removal of a tick is one way to reduce the risk of disease transmission.

"When patients locate a tick on them, they should not panic and should take their time to remove the tick properly," said Ellen Stromdahl, an entomologist with the Army Public Health Center. "If you remove attached ticks promptly, you can prevent tick-borne disease."

To remove a tick, Stromdahl recommends certain guidelines. "Remove the tick with tweezers," Stromdahl said. "Do not burn it or use soap, gasoline, Vaseline or other chemicals. Once the tick is removed, thoroughly cleanse the bite with alcohol and apply antibiotic ointment to the bite."

Most tick bites cause irritation and itching immediately, but Stromdahl said this does not indicate disease transmission.

Finally, Stromdahl says ticks that have been removed from people should be saved for identification and testing. Military



Photo by Graham Snodgrass, Army Public Health Center (Provisional)  
The deer tick is the only tick that carries Lyme disease. It is more common in the Northeast and upper Midwest parts of the U.S. If individuals remove attached ticks promptly, they can prevent tick-borne disease.

personnel and DOD civilians should place the tick in a jar or ziplock bag and take it to the local military medical treatment facility, where health care providers will forward the tick to the Army Public Health Center (P) Tick-Borne Disease Laboratory.

Army public health professionals will then identify the tick and perform disease testing. The results of identification will be reported to the submitting medical treatment facility upon receipt of the tick, and test results (negative and positive) will be reported within a week.

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

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



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Provided by the INTEL DIV/DPTMS

Say Something

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**DO OBSERVE & REPORT**

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

INSTALLATION WATCH CARD

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- Discuss any aspect of military operations or planning.
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**Report suspicious activity immediately to APG Police!**

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

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APG NEWS

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305, IMAP-PA, APG, MD 21005-5001; contact the Editor Amanda Rominiecki at amanda.r.rominiecki.civ@mail.mil, contact Assistant Editor Yvonne Johnson, 410-278-1148 or email yvonne.johnson5.ctr@mail.mil.

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

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*Spouses gather for new multicultural club*

From left, Team APG spouses Marilyn Montanez, Michele Lenig, APG Army Volunteer Corps Program Manager Sarah Polanco, and spouses Brittney Capron-Sutton, Pamela Pan, Josephine Montanez and Sui Wa Hui gather for a food sampling during the first meeting of the Multicultural Spouses Club, July 13. The club, led by Polanco, met at the Corvias Community Center on APG North, where they discussed their hopes for the group going forward and sampled food from each member's home country.

Spouses who are interested in joining the club, or who would like more information, can contact Sarah Polanco at sarah.polanco.civ@mail.mil, or 410-278-2464.

Photo by Lauren Finnegan, APG News



Photo by Lauren Finnegan, APG News

*Camp helps area youth build soccer skills, learn world culture*

Herald Belijour Jr, left, and Colin Merritt, right, pursue the ball during the Challenger Sports British Soccer Camp held July 11- 15 at the Bayside Child Development Center.

Children from all over Harford County participated in the camp to receive training from experts from the United Kingdom. The coaches guided players through entertaining and fun skill-sharpening exercises. The camp culminated in a World Cup-style tournament in which team members were required to learn about and represent different countries on the soccer field.

**How are we doing?** E-mail comments and suggestions for the APG News to [usarmy.apg.imcom.mbx.apg-pao@mail.mil](mailto:usarmy.apg.imcom.mbx.apg-pao@mail.mil)

BY THE NUMB#RS

**National Blueberry Month**

July is designated by the U.S. Department of Agriculture as "National Blueberry Month." Read these fun facts about this antioxidant-rich berry.

**100**

Years since botanist Frederick Coville and Elizabeth White, the daughter of a New Jersey cranberry farmer, harvested and sold the first commercial crop of blueberries.

**84**

Calories in a one cup serving of blueberries. They are labeled a superfood" by many nutritionists because they are packed with antioxidants and are high in potassium and Vitamin C.

**28**

Years since Minnesota named blueberry the official state muffin, due to the abundance of wild blueberries grown in the state.

**10**

Number of states that account for 98 percent of U.S. commercial production. (Michigan, Oregon, Washington, Georgia, New Jersey, California, North Carolina, Florida, Mississippi and Indiana.) The U.S. is the world's largest producer of blueberries.

**3.6**

Grams of dietary fiber in a cup of blueberries. Berries are filled with tiny seeds, so their fiber content is typically higher than that of other fruits.

By **RACHEL PONDER**, APG News  
Source(s): <http://www.nabcbles.org/>; <http://www.blueberrycouncil.org/>; <http://www.todaysdietitian.com/newarchives/063008p28.shtml>

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# New systems enhance 911 call center

By **AMANDA ROMINIECKI**  
*APG News*

When 9-1-1 is dialed on a phone, it signifies that someone or something is in distress. A man has had a heart attack. A child is having difficulty breathing following a bee sting. A driver saw another car veer off the road. A passerby noticed smoke coming from a home.

Whatever the reason, when 9-1-1 is dialed there is an expectation that help will be waiting on the other end of the line. In a nondescript building on APG South (Edgewood) sits a hub of emergency operations excellence with a dedicated staff waiting to provide assistance when someone on Aberdeen Proving Ground makes that three-digit plea for help.

According to APG Garrison Directorate of Emergency Services 911 Dispatch Manager Elizabeth Wooten, the Continuity of Operations, or COOP, Center on APG South is currently serving as the primary 911 dispatch center on post, and it’s utilizing several new updates that have allowed APG to offer an enhanced level of care when someone has an emergency on the installation.

“With a new computer-aided dispatch, or CAD, software and enhanced 911, we’re now in line with Harford County,” Wooten said. “One can expect a seamless level of service between the county and the installation.”

Updates to the installation’s 911 call center, mirroring updates made in Harford County, not only put APG in compliance with federal mandates, but it also allows for greater interoperability between the two entities, especially during situations in which APG would require assistance from Harford County and vice versa.

The primary 911 dispatch center is in the process of completion on APG North (Aberdeen), with a scheduled opening at the end of 2016. The COOP Center on APG South will become a back-up 911 dispatch center once the new center opens, Wooten said, adding that the temporary location has served as a smaller-scale test of the new systems before their launch at the new center.

**Enhanced 911**

Before enhanced 911, on-post emergency calls weren’t always directed to the APG dispatch center, Wooten said. Government lines directly connected to the installation’s 911 dispatch center, but any phone lines in the housing areas, Army and Air Force Exchange Services facilities and the Enhanced Use Lease buildings instead connected to Harford County’s dispatch center, she said.

Now, all government and commercial phone lines on post, with the exception of cell phones, route 911 calls to APG dispatchers. More importantly, those calls now include vital data called Automatic Number Identification and Automatic Location Identification, or ANI/ALI information, Wooten said.

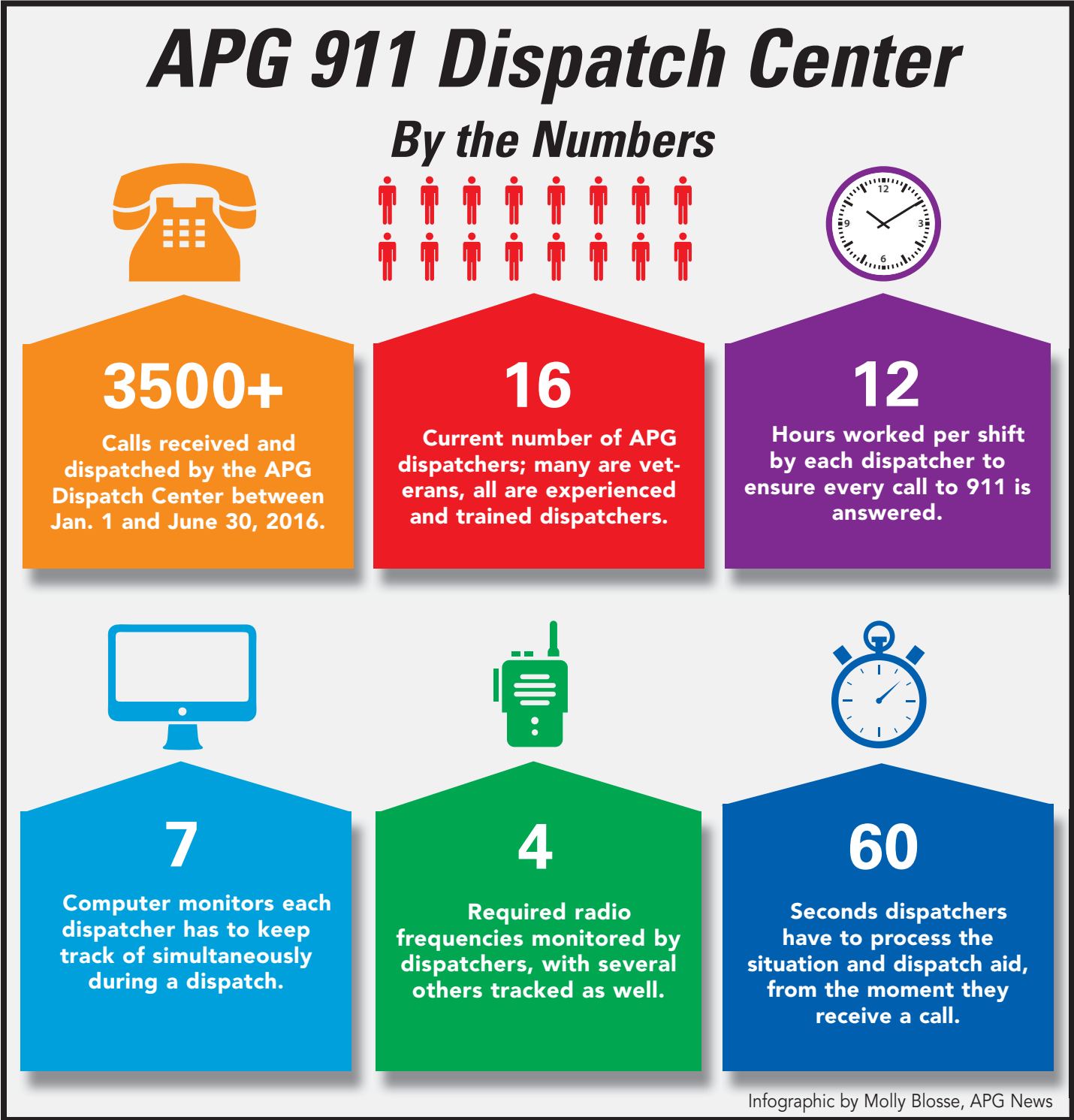
“The updated ANI/ALI information brings APG into compliance with federal mandates that require 911 dispatch centers to obtain that information,” she said.

Due to the location of cell phone towers and the installation’s proximity to Interstate 95, cell phone calls to 911 are still directed to the county’s dispatch center, Wooten said. However, if ANI/ALI information indicates the call is coming from a location on the installation, the call is nearly instantaneously forwarded to APG dispatchers, along with that vital ANI/ALI information.

Before the APG dispatch center had the ability to obtain ANI/ALI information, the workforce was sometimes directed to call the dispatch center directly, via a seven-digit phone number, especially if an emergency had occurred down range. But that is no longer the best option in an emergency, Wooten said.

“Always call 911, no matter where you are. We need that ANI/ALI information to pinpoint where you are, especially down-range,” she said.

According to the Federal Communi-







# All Things Maryland

## Historic Tudor Hall in Bel Air

### Once home to infamous John Wilkes Booth

By **LAUREN FINNEGAN**  
APG News

Down a winding road in the town of Bel Air sits a house that looks as if it has been frozen in time. Trees line the road leading to the house, like a beautiful curtain waiting to reveal the masterpiece behind them. Surrounded by every shade of green imaginable sits Tudor Hall, the home of the Booth family, and it's most infamous member, John Wilkes Booth.

Since 2006, when Harford County acquired the home from a family who used it as a private residence, the Junius B. Booth Society, also known as JBBS, now under the leadership of Tom Fink, has been doing its part to keep the history of the Booth family alive. From providing tours, to maintaining the home, the JBBS works to ensure the Booths are not forgotten.

Junius, John Wilkes' father, was considered to be the best Shakespearian actor of the first half of the 19th century, and his son Edwin, the best of the latter half. But the Booth family, and their acquaintances could not have foreseen the infamy John Wilkes, the ninth of 10 children, would bring to the family name after he assassinated President Abraham Lincoln.

Before that fateful day in April 1865, Junius just wanted a quiet life for his family in the country. Upon arrival to the home, visitors can see why he chose the picturesque spot in Harford County. Even now, with some modern construction visible beyond the trees, it can still be described as peaceful and serene, a stark contrast to the Booth legacy.

When Junius bought the property in 1824, only a modern log cabin sat there. He moved it intact from its original location by rolling it on logs greased with pig fat. Years later, Booth decided to add onto the cabin and commissioned James Gifford to build the structure that stands there today. Ironically, Gifford was also the architect who built Ford's Theater, the site of the Lincoln assassination.

Although Junius didn't live to see the final product - dying on a riverboat

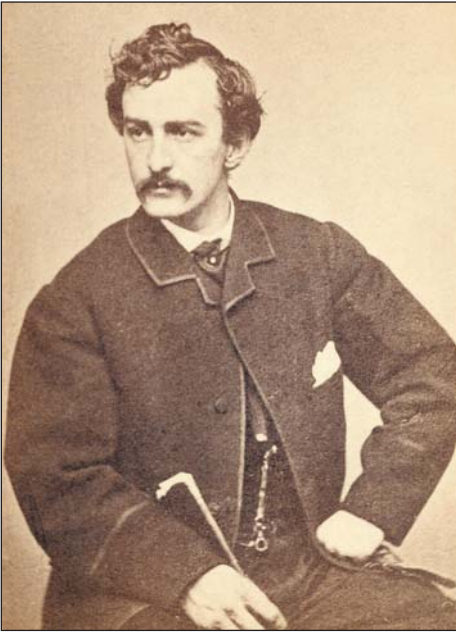


(Top left) Lady Elaine, a volunteer with the Junius B. Booth Society which runs Tudor Hall, leads tours of the Booth home and shares fascinating stories about John Wilkes Booth and his family; (Top right) This is the window and balcony to John Wilkes Booth's bedroom. John and Edwin Booth were said to have practiced Shakespearian productions on the balcony.

Photos by Lauren Finnegan, APG News

(Right) Photo of Booth circa 1865.

Courtesy photo



in 1852 - his wife, Mary Ann and some of the children stayed there until they decided to lease it to the King family and eventually sold it in 1878 to Samuel Kyle, whose wife Ella lived in it until her death. The house changed hands several times through the years, and despite its history, was not included in the National Register of Historic Places until 1973, when the state decided to designate 136.5 acres of the 177-acre farm as a historical boundary. This was eventually reduced in 1982 to the 8.33 acres that is there today.

Tours of the Booth family home, known as Tudor Hall, are offered on select Sundays throughout the year at 1 and 2 p.m., and last about 45 minutes. Along with viewing the house where

John Wilkes Booth grew up, visitors will be fascinated by the stories that encompass the history of the entire Booth family. From Richard Booth (John Wilkes' grandfather) and Junius using the home for the Underground Railroad, to the love affair between Junius and Mary Ann which was kept a secret from his first wife for more than 25 years.

Fink's passion for the home and the family who once lived here radiates from him as he tells their story.

"Tudor Hall is truly a sight that should not be missed in Harford County, because when people visit Harford County's historic Tudor Hall," according to Fink, "they encounter the grand story of the theatrical Booths of Maryland who left their mark on America forever."

Tudor Hall is located at 17 Tudor Lane, Bel Air, MD 21015. For tour reservations, and information, visit <http://spiritsoftudorhall.blogspot.com/> or <http://facebook.com/SpiritsOfTudorHall>; email [SpiritsOfTudorHall@gmail.com](mailto:SpiritsOfTudorHall@gmail.com), or call 443-619-0008.

## Avoid heat-related illnesses in hot, humid weather

Centers for Disease Control and Prevention

Now is the time to prepare for the high temperatures that kill hundreds of people every year. Extreme heat caused 7,415 heat-related deaths in the United States from 1999 to 2010. Heat-related deaths and illness are preventable, yet annually many people succumb to extreme heat.

Take measures to stay cool, remain hydrated and to keep informed. Getting too hot can make you sick. You can become ill from the heat if your body can't compensate for it and properly cool you off. The main things affecting your body's ability to cool itself during extremely hot weather are:

- High humidity. When the humidity is high, sweat won't evaporate as quickly, which keeps your body from releasing heat as fast as it may need to.

- Personal factors. Age, obesity, fever, dehydration, heart disease, mental illness, poor circulation, sunburn, and prescription drug and alcohol use can play a role in whether a person can cool off enough in very hot weather.

Those who are at highest risk include people 65 and older, children younger than two, and people with chronic diseases or mental illness. Closely monitor people who depend on you for their care. Are they drinking enough water? Do they have access to air conditioning? Do they need help keeping cool?

### Protective Actions

People at greatest risk for heat-related illness can take the following protective actions to prevent illness or death:

- Stay in air-conditioned buildings as much as possible. Contact your local health department or locate an air-conditioned shelter in your area. Air-conditioning is the number one protective factor against heat-related illness and death. If a home is not air-conditioned, people can reduce their risk for heat-related illness by spending time in public facilities that are air-conditioned, and

Heat-related Illness	Symptoms	What to Do
Heat Exhaustion	<ul style="list-style-type: none"><li>▪ Heavy sweating</li><li>▪ Weakness</li><li>▪ Cold, pale, and clammy skin</li><li>▪ Fast, weak pulse</li><li>▪ Nausea or vomiting</li><li>▪ Fainting</li></ul>	<ul style="list-style-type: none"><li>▪ Move to a cooler location.</li><li>▪ Lie down and loosen your clothing.</li><li>▪ Apply cool, wet cloths to as much of your body as possible.</li><li>▪ Sip water.</li><li>▪ If you have vomited and it continues, seek medical attention immediately</li></ul>
Heat Stroke	<ul style="list-style-type: none"><li>▪ High body temperature above 103 degrees Fahrenheit</li><li>▪ Hot, red, dry or moist skin</li><li>▪ Rapid and strong pulse</li><li>▪ Possible unconsciousness</li></ul>	<ul style="list-style-type: none"><li>▪ Call 911 immediately — this is a medical emergency.</li><li>▪ Move the person to a cooler environment.</li><li>▪ Reduce the person's body temperature with cool cloths or even a bath.</li><li>▪ Do NOT give fluids.</li></ul>

using air conditioning in vehicles.

- Do not rely on a fan as your primary cooling device during an extreme heat event.
- Drink more water than usual and don't wait until you're thirsty to drink.
- Check on a friend or neighbor and have someone do the same for you.
- Don't use the stove or oven to cook—it will make you and your house hotter.

### Preventive Measures

Even young and healthy people can get sick from the heat if they participate in strenuous physical activities during hot weather:

- Limit outdoor activity, especially midday when the sun is hottest.
- Wear and reapply sunscreen as indicated on the package.
- Pace activity. Start activities slow and pick up the pace gradually.
- Drink more water than usual and don't wait until you're thirsty to drink more. Muscle cramping may be an early sign of heat-related illness.
- Wear loose, lightweight, light-colored clothing.

- Stay in an air-conditioned indoor location as much as possible.
- Schedule outdoor activities carefully.
- Wear loose, lightweight, light-colored clothing and sunscreen.
- Pace yourself.
- Take cool showers or baths to cool down.
- Check on a friend or neighbor and have someone do the same for you.
- Never leave children or pets in cars.
- Check the local news for health and safety updates.

### Warning Signs and Symptoms of Heat-Related Illness

Muscle cramping might be the first sign of heat-related illness, and may lead to heat exhaustion or stroke. The table above outlines the symptoms of heat exhaustion and heat stroke, and what to do if you or someone else is suffering from the heat-related illness.

People who work outdoors are more likely to become dehydrated and are more likely to get heat-related illness.

- Prevent heat illness with acclimatization:

Make sure workers drink enough liquids, and give them rest breaks. You should also acclimatize your workers by gradually increasing the time they work in hot environments.

- STOP all activity and get to a cool environment if you feel faint or weak
- Drink from two to four cups of water every hour while working. Don't wait until you are thirsty to drink.
- Avoid alcohol or liquids containing large amounts of sugar.
- Wear and reapply sunscreen as indicated on the package.
- Ask if tasks can be scheduled for earlier or later in the day to avoid mid-day heat.
- Wear a brimmed hat and loose, lightweight, light-colored clothing.
- Spend time in air-conditioned buildings during breaks and after work.
- Encourage co-workers to take breaks to cool off and drink water.
- Seek medical care immediately if you or a co-worker has symptoms of heat-related illness.

For more information, visit: <http://www.cdc.gov/niosh/topics/heatstress/>.

Visit us on facebook <https://www.facebook.com/APGMd>





# MEMORIES OF ‘NAM



## Pilot recalls Medal of Honor rescue mission

By **ELIZABETH M. COLLINS**  
*Soldiers Magazine*

The bullets came in fast and furious, a hail so thick it seemed like rain with a fog of green tracers. The men of the 176th Aviation Company were used to hot landings after months in the highlands of Vietnam, but this, this was something else.

A battalion’s worth of fire – small arms, mortars, grenades – seemed to be trained on the Hueys all at once, clipping rotors, windshields, fuel lines. Still the pilots flew, their blades whirling and thunking as they approached the landing zone. They had been flying back and forth all day, bringing in fresh troops and ammunition, taking out the wounded as the battle went from bad to worse. Forty-four Soldiers were on the ground, outnumbered, outgunned and desperate.

It would take a hero – several heroes, actually – to rescue them, to get them home safe to their parents, wives and children.

It would take daring, bravery and guts. It would take someone like now-retired Lt. Col. Charles Kettles, who led the rescue – and then went back again – and received the Medal of Honor for it in a White House ceremony, July 18.

### Born to Fly

Kettles was born to be a pilot. His Canadian-born father served in the British Royal Air Force during World War I and the U.S. Army Air Corps during World War II.

So when Kettles received a draft notice at the close of the Korean War, he was excited. It was an escape from two full-time jobs and an opportunity to “sleep in to as late as six in the morning.” It was also a chance to fly.

He served in post-war Korea, Japan and Thailand. He married and had children, one of whom would eventually fly for the Navy. He opened a Ford dealership back home in Michigan with his brother. Then he volunteered for Vietnam.

“The Army was in need of pilots,” he explained. “They had spent a great deal training me. ... I think we all have an obligation in this country to respond where the need may be. It’s your country. It’s up to you to protect it.”

### Vietnam

Then-Maj. Kettles deployed to Vietnam in early 1967 as a platoon leader and aircraft commander with the 176th, part of 14th Combat Aviation Battalion, Americal Division.

“You questioned why anyone would be at war,” he remembered. “They had so much territory that seemed to be unused. ... It was an absolutely beautiful country.”

Flying a helicopter was the best way to see it, too, added Kettles’ gunner, Spc. Roland Scheck. Up a thousand feet or so, above the jungle canopy, the humidity decreased.

“It was wonderful, absolutely wonderful,” Scheck said. “It was like a motorcycle in the sky, going 160 miles an hour. ... It wasn’t so gorgeous if you were down there working in one of those rice paddies, but if you flew over it, it was wonderful.”

The war started for the company in earnest a few months later when it was assigned to support the 1st Battalion, 327th Infantry, 1st Brigade, 101st Airborne Division. The infantry unit always seemed to be in some sort of contact and it was the pilots’ job to transport and supply them.

“Whenever we were told, ‘tomorrow we’re going to fly for the 101st,’ all the gunners and crew chiefs said, ‘Oh s---,’” Scheck said. It meant trouble was sure to follow.

By the second week of May, things got “pretty hairy,” near Duc Pho in the highlands, said then-Sgt. Dewey Smith, who was in the weapons platoon of B Company. His platoon confronted more than 100 enemy soldiers on May 13. Another company was overrun the next day, while six other Soldiers found their reconnaissance patrol compromised. Kettles and another pilot managed to rescue them from a B52 bomb crater minutes before another bomb strike.

Kettles earned the Distinguished Flying Cross for his actions, an award that would be overshadowed by events the very next day, May 15.

### Chump Valley

That’s when the 176th inserted another reconnaissance patrol in a valley Soldiers nicknamed “Chump Valley,” because someone said only a chump

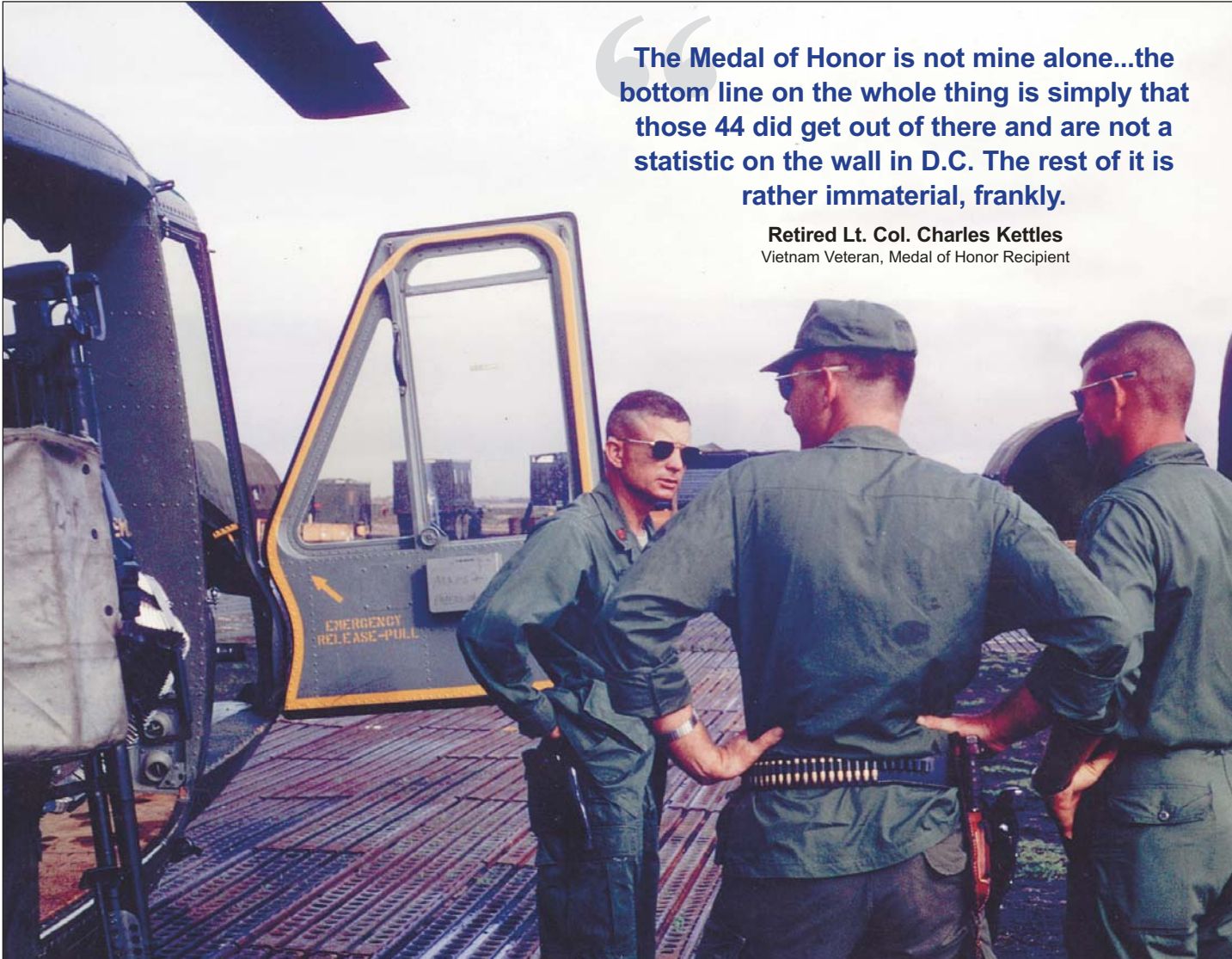


Photo courtesy of Retired Lt. Col. Charles Kettles  
Then Maj. Charles Kettles, left, stands beside his heavily damaged Huey helicopter after a battle near Duc Pho, Vietnam, May 15, 1967.

would go there,” Kettles remembered. The men soon confronted a large enemy force, and Smith’s weapons platoon and his company’s 3rd platoon were called on as reinforcements.

The enemy “really opened up on us. It was just continuous,” Smith said. The battle seemed hopeless from the beginning: 80 versus a battalion-sized force with only a small, shallow creek and a few trees and bushes between them. “I’m not going to say that I was afraid, but I was extremely apprehensive.”

The battle raged for hours, and even heavy artillery and airstrikes couldn’t dislodge the enemy, who would simply duck into bunkers and wait for the explosions to end.

Pilots from the 176th made several trips, bringing in ammunition and reinforcements and evacuating the wounded. There was only one direction they could use to approach the landing zone, recalled retired Lt. Col. Ronald Roy, then a pilot and warrant officer, and North Vietnamese forces poured hellfire on them in what he still believes was an ambush. It was certainly some of the most dangerous flying he ever saw in either of his tours in ‘Nam.

“It was like rain ... coming straight up out of the wood line,” said Roy, who earned a Silver Star. “Without hesitation, we flew through it. ... We got shot at every day, and you’d lose a rotor blade or whatever, but never to this intensity.”

“You saw those green tracers coming at you,” Scheck said. “They looked like each of them was going to get you right between the eyes.”

The fire was so withering, Roy continued, that Soldiers couldn’t even leave the limited safety of the trees to deliver the wounded to his helicopter, which touched down in the middle of the LZ. They would have been mowed down in seconds. He maneuvered his helicopter closer, but a mortar struck between the rotor blades, severely damaging the aircraft, wounding Roy’s copilot in the leg and turning the four crewmembers into infantry Soldiers.

Meanwhile, two wounded Soldiers had dived onto Kettles’ helicopter just as a volley of bullets sprayed the aircraft, leaving about 30 rounds throughout the Huey. They made it back to Duc Pho trailing fuel, but Scheck was wounded in the arm, chest and leg, which he ultimately lost above the knee. He would receive the Distinguished Flying Cross in addition to the Purple Heart.

“I was the first guy whose life he saved,” Scheck said.

### Rescue Mission

By late afternoon, the 176th Aviation Company was down to one working helicopter and 44 Soldiers who were fighting for their lives in Chump Valley. Scheck and Roy both remember hearing from multiple people that commanders ordered Kettles to stand down. Kettles ignored them.

He coordinated with the 161st Aviation Company to obtain more helicopters and crews, scraping together six helicopters. It was another hot landing, but the gunships and the artillery provided enough suppressive fire for the Soldiers to board.

The last pilot in the formation confirmed they had all the Soldiers, and the helicopters took off. But he was wrong, dead wrong, someone from the command and control aircraft yelled over the radio. Eight Soldiers had been fighting a bit of a rearguard action and had been left behind.

### Near Disaster

From the ground, Smith watched the last helicopter take off: “If it’s possible for your heart to fall into your boots, that’s what mine did. I had three rounds left in my rifle. ... My first thought was that I was going to have to start hauling boogy down the side of the creek and try to lose myself in the brush to start escape and evasion.”

Horried, Kettles turned his helicopter around. He only had one “ground pounder” aboard whereas the other Hueys were full.

“You’ve got eight troops there,” he explained. “I happened to be there, available, with the equipment to do it. If you left them for 10 minutes, 15 minutes, they would have been a statistic somewhere, either dead or prisoner of war.”

The gunships were gone, the Air Force had been called off and the artillery was silent. Armed only with two machine guns, a couple of revolvers, a lot of nerve and the element of surprise, Kettles “ratcheted up into a steep, left descending turn. It falls like a rock, and touched down.”

Smith thought for sure the helicopter would either be shot down or be forced to turn around. The hail of machine-gun tracers and mortars was that intense, but Kettles never flinched, even when one “mortar round went off almost immediately off of the nose and took out part of each windshield and the chin bubble” and another damaged the tail.

“The emergency panel was still cold, no red lights,” Kettles continued, joking that “the air-conditioning was good, with ventilation through the windshield and the chin bubbles.”

The GIs sprinted to the helicopter “pretty dog-on fast,” Smith remembered with relief. “All eight of us, we were hauling boogy. Nobody wasted any time. It was quick, seconds.”

They were still under fire, and now they were at least 600 pounds overweight. The Huey fishtailed.

“I had to lower the collective to get my rotor (revolutions per minute) back up,” Kettles said. “Leaving the nose of the skid on the ground, I put the RPM back up again. I’m trading that RPM for forward speed to put it in translation lift, which will give me clean air. If it’s going to go, it will go at that point, or we’re all 13 of us going to be

infantry again.

“I didn’t know whether we were going to get out of there, but I was going to give it my best try. After about five or six of those down the riverbed, it did fly – like a two-and-a-half ton truck.”

### Aftermath

When the men finally made it to safety, mechanics counted almost 40 holes in the aircraft. Smith was numb, so shell-shocked at first that he didn’t even recognize a buddy. For his part, Kettles assumed, “That’s just what war is. ... We completed the thing to the best of our ability, and we didn’t leave anyone out there. Let’s go have dinner.”

Much to his disgust, Kettles’ commander moved him into flight operations, asking Kettles what they were supposed to do without any helicopters. (In reality, the company managed to get back in the air very quickly.) Then Kettles became the brigade aviation officer, but he didn’t want to be behind a desk. He wanted to fly.

Kettles reluctantly accepted a Distinguished Service Cross for actions he didn’t think were anything special and moved on with life. He returned to Vietnam two years later, commanding the 121st Assault Helicopter Company in the delta. He eventually found his childhood sweetheart again and got remarried. He retired from the Army, went back to school and helped found the aviation management degree program at Eastern Michigan University.

And then a local historian came to interview Kettles for the Veterans History Project. He dragged the story out of Kettles. He wanted to know more. He thought Kettles deserved more than the nation’s second-highest honor. He believed Kettles deserved the Medal of Honor, and he started contacting Kettles’ old battle buddies for statements. He got Congress and the Army to reopen Kettles’ file.

“He definitely deserves the Medal of Honor,” said Smith, who left the Army as a staff sergeant decorated for valor after three consecutive tours in Vietnam. He noted his children, grandchildren and great-grandchildren also have Kettles to thank for their lives.

“I really can’t express how much respect I have for him. I’m sure it had to take a lot of courage. He might have been doing his job, but he did a hell of a good job.”

Kettles, who credits the helicopter instead of his flying skills, prefers to see the medal as recognition for everyone who fought that May 15.

“The Medal of Honor is not mine alone,” he said. “You’ve got 74 crewmembers out there. ... It belongs to them as much as it belongs to me.

“The bottom line on the whole thing is simply that those 44 did get out of there and are not a statistic on the wall in D.C. The rest of it is rather immaterial, frankly.”



# Power plant to save money, support mission readiness

Continued from Page A1

most is if we don't come together to collaborate, we miss opportunities."

Installation Energy Manager Devon Rock, said when the steam supply contract with Harford County ended in March 2016, APG mission activities required an alternate solution. Thus, the CHP plant, an emerging new technology, will generate high-quality electricity and steam for Edgewood far exceeding traditional equipment in terms of energy efficiency and emission reductions, she added.

"One of the most critical roles of Army Energy Managers is to develop the most economic and sustainable solutions possible to ensure mission readiness," she added. "The electricity and steam from this CHP plant will be used throughout the Edgewood area to provide state-of-the-art laboratories with specific temperature and humidity controls for Army research and development organizations such as the Edgewood Chemical and Biological Center, ECBC; Public Health Center, or PHC; and the Medical Research Institute of Chemical Defense, MRICD."

Rock said the effort was achieved through collaborations with the Huntsville Corps of Engineers and energy saving partnerships with defense contractor Johnson Controls and Baltimore, Gas and Electric.

Representatives on hand from stakeholder organizations included Cecil Rodriguez, deputy administrator, Region 3 of the Environmental Protection Agency; and Kathleen Hogan, deputy assistant secretary for energy efficiency from the Office of Energy Efficiency and Renewable Energy.

Rodriguez said the system requires less fuel to produce the same amount of energy and that the partnership was the greatest example of resource management and attaining Net Zero consumption. Wayne Harbaugh, BGE director of Energy Efficiency presented a \$2.5 million check, representing long-term cost savings, to Crawford and CECOM Command Sgt. Maj. Matthew D. McCoy.

"A combined heat and power facility turning what might otherwise be waste-heat into power is innovative," Harbaugh said. "It's my honor to present Aberdeen Proving Ground with a check for \$2.5 million from the BGE Smart Energy Savers Program. Thank you for being a partner in energy innovation and for inspiring all of us to follow your lead."



Photo by Molly Blossie, APG News

During a ceremonial chain-cutting representing the opening of the new APG South (Edgewood) Combined Heat and Power Plan, July 19, Cecil Rodrigues, Environmental Protection Agency Region 3 deputy administrator, cuts one of seven chains with the assistance of Wayne Harbaugh, BG&E director of Energy Efficiency, left, as APG Senior Commander Maj. Gen. Bruce T. Crawford and Installation Energy Manager Devon Rock look on.

The ceremony, which culminated with a ceremonial chain-cutting followed by tours of the plant and other facilities managed by the APG Garrison's Directorate of Public Works.

The CHP plant is located at Bldg. E-5126. The project fully replaces the capacity of the WTE plant and generates about 50 percent of the current Edgewood electricity load. This improves APG's energy security posture for electricity and steam and can be quantified by nearly \$4.4 million in electrical savings, annually.

"This is yet another great day in the storied history of this installation," Crawford said, adding that the overall savings will exceed \$25 million over the next several years. In addition, he said it speaks to the Army Chief of

Staff Gen. Mark A. Milley's #1 priority: Readiness.

In the Army Readiness Guidance, Calendar Year 2016-17, under Army Readiness Priorities, Strategic Readiness, part 5 stipulates: "Improve our ability to project national power quickly by optimizing our Army's prepositioned stocks; implementing expeditionary mission command systems and concepts; training/evaluating unit, installation and Army-wide processes through Army Emergency Deployment Readiness Exercises and ensuring installation power projection platforms are well maintained."

"A big part of the readiness conversation is Installation Readiness, and I think that this is a good example," he said. "It's a model of what happens

when you bring together like-minded individuals with like goals. Absolutely it's about readiness. I think it's very important and I think the other takeaway is what happens next. There are relationships at work here that did not exist. The real innovation is the long term and enduring capabilities. I'm excited about the savings and the energy efficiency, but I'm more excited about the opportunities that now exist.

Most importantly, when you look in the eyes of those who put this together, there's a sense of pride and accomplishment because they've created something that's going to benefit the great state of Maryland and the U.S. Army, but ultimately it's going to become a model that's going to benefit the nation."

# Tia looks to make APG best installation in Atlantic Region

Continued from Page 1

Davis welcomed Tia and his family to Team APG, noting that noncommissioned officers, or NCOs, are the "backbone of the Army."

"As you step into the role of command sergeant major, it is critical that you lead from the front, remembering faith, family, unit and then yourself, are the four pillars that make us successful here at APG," he said.

Davis said Tia is a seasoned leader, with more than two decades of military experience.

"I know you are more than up to the challenge," he said.

Tia said it was "truly an honor" to serve Team APG. He thanked the event organizers and those who assisted his family through the transition.

"We [NCOs] are meant to serve, that is what our entire heritage is all about, we are about serving," he said. "And that is what I am here to do."

Tia said his goal is to make Team APG the best Army installation in the Atlantic Region.

"That is my challenge to us all, including myself," he said.

The program included the singing of the national anthem by Courtney Gil-



Photo by Molly Blossie, APG News

From left, new Garrison Command Sgt. Maj. Toese Tia Jr., his wife Mineretta and one of their daughters AnaMalae, greet attendees in the receiving line after the official ceremony.

bert of the U.S. Army Test and Evaluation Command and the invocation by Garrison Chaplain Lt. Col. Arleigh von-Seggern. ATEC 1st Sgt. Gerald Rouse presented flowers to Tia's family.

Tia replaces the previous Garrison

Command Sergeant Maj. Jeffrey O. Adams, who moved to his next duty station in June.

**Command Sgt. Maj. Toese Tia Jr.**

A native of American Samoa, Tia's military career began at Fort Leonard

Wood, Missouri in 1989.

His previous assignments include Fort Riley, Kansas; Fort Bragg, North Carolina; Fort Leonard Wood, Missouri; Kaiserslautern, Germany; and Schofield Barracks, Hawaii. He is a veteran of Operation Iraqi Freedom.

His military education includes the U.S. Army Sergeants Major Academy and the Battalion Pre-Command Course and Command Sgt. Major Development program, as well as the Air Assault, Airborne, Jump Master, Drill Sergeant, and Ranger schools, and the Special Forces Assessment and Selection Course. He is currently pursuing a degree in business management from Excelsior College in Albany, New York.

His awards and decorations include the Legion of Merit, Bronze Star, Meritorious Service, Joint Service Achievement, Army Commendation, Army Achievement and the Good Conduct medals, the Iraq Campaign Medal (with Silver Star) and the Global War on Terrorism Service Medal. He is a member of the Sergeant Audie Murphy Club and a recipient of the Ordnance Order of Samuel Sharpe.

Tia is married with four children, one of whom is currently a cadet at the U.S. Military Academy at West Point.



## APG CATCH-A-POACHER PROGRAM

A wide variety of wildlife call Aberdeen Proving Ground home. The APG Conservation Law Enforcement Branch is asking you to be a partner in protecting and preserving the natural resources here on post. If you see or have knowledge of poaching or illegal activity involving wildlife or natural resources, you can use the SUBMIT-A-TIP hotline to anonymously provide information to catch a poacher.

**Call the SUBMIT-A-TIP "HOTLINE" at 410-306-4673.**

*Emergencies or violations in progress should always be reported via 911.*

When reporting poaching or illegal activity involving wildlife or natural resources on APG, please take note of the information listed in the form below.

Name/Description/Address of the Poacher
Location/Days/Times & Type of Poaching
Vehicle/Vessel Description or Registration #

You can also cut out this completed SUBMIT-A-TIP form and mail it to: 2200 Aberdeen Blvd. APG, MD 21005



# MARK YOUR CALENDAR

## EVENTS & TOWN HALLS

### GARRISON TOWN HALL JULY 21

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

### INSTALLATION TOWN HALL JULY 21

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

### JOB FAIR & EMPLOYMENT RESOURCE DAY AUGUST 3

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

### WOMEN'S EQUALITY DAY OBSERVANCE AUGUST 24

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

### 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

### FIRE MARSHALL TRAINING AUGUST 11

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

### 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 EXTINGUISHER TRAINING AUGUST 17

Bldg. E4810. 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).

## HEALTH & RESILIENCY

### MARRIED COUPLES RESILIENCY JULY 25-26

Chesapeake Regency Resort. A training program for couples with a desire to work on their relationship. Open to civilian employees at Aberdeen Proving Ground and their spouses. For more information, or to register, contact Chaplain Arleigh vonSeggern at [arleigh.f.vonseggern.mil@mail.mil](mailto:arleigh.f.vonseggern.mil@mail.mil)

### C4ISR HEALTH EXPO & FITNESS CLASSES JULY 28

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

### NUTRITION AWARENESS DAY JULY 29

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

### EDGEWOOD DENTAL CLINIC CLOSED AUGUST 11, AUGUST 25

For more information, contact Sgt. Tracy Glover at [tracy.s.glover4.mil@mail.mil](mailto:tracy.s.glover4.mil@mail.mil).

### BOOST YOUR IMMUNE SYSTEM SESSION AUGUST 18

Myer Auditorium, Bldg. 6000. 11:30 a.m. to 12:30 p.m. For more information, contact Tiffany Grimes at 443-861-7901 or [tiffany.l.grimes.civ@mail.mil](mailto:tiffany.l.grimes.civ@mail.mil).

## FAMILY & CHILDREN

### BACK TO SCHOOL CHECKLIST FOR PARENTS AUGUST 11

Myer Auditorium, Bldg. 6000. 11:30 a.m. to 12:30 p.m. For more information, contact Tiffany Grimes at 443-861-7901 or [tiffany.l.grimes.civ@mail.mil](mailto:tiffany.l.grimes.civ@mail.mil).

### BACK TO SCHOOL GIVEAWAY AUGUST 13

VFW Post 10028, 821 Old Philadelphia Road in Aberdeen. 9 a.m. to 3 p.m. Operation Homefront invites active-duty, National Guard and Reserve Soldiers, Wounded Warriors and Gold Star Families to a free school supply giveaway. Registration required by Aug. 8, visit <http://tinyurl.com/vfwb2s>. For more information, contact Marti King at 304-943-1132.

## ANNOUNCEMENTS & MISCELLANEOUS

### FEDERALLY EMPLOYED WOMEN SCHOLARSHIP DEADLINE JULY 25

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

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

### APG SOUTH 2016 WATER MAIN FLUSHING

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

### BIBLE STUDY CLASS

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

### RETIRING SOON? UNCLE SAM WANTS TO THANK YOU!

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

## MORE ONLINE

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

If you see it, report it

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



# MORALE, WELFARE & RECREATION



## Upcoming Activities

Learn more about APG MWR activities and services by going online at [www.apgmwr.com](http://www.apgmwr.com).

## LEISURE & RECREATION

### JERSEY BOYS DISCOUNT TICKETS

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

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

### NEW YORK BUS TRIP SEPTEMBER 24

Departs APG North (Aberdeen) recreation center at 7 a.m. Returns at 9 p.m. Cost is \$51 per person. To reserve a seat, call 410-278-4011.

## CHILD & YOUTH SERVICES

### FAMILY MOVIE NIGHT JULY 22

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

### CYSS PARENT ADVISORY BOARD JULY 29

Bldg. 2503, CYSS Conference Room #214. 11:30 a.m. to 12:30 p.m. All adults with a child enrolled in a CYSS program are encouraged to attend. Parents receive 2 parent participation points. Patrons are free to bring lunch, if they desire. For more information, call 410-278-2572.

### FAMILY MOVIE NIGHT AUGUST 5

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

### FAMILY MOVIE NIGHT AUGUST 19

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

## ACS & RESILIENCY

### HOW TO SMART START YOUR SMALL BUSINESS JULY 27

ACS Bldg. 2503. 11:30 a.m. To 1 p.m. Provides an overview of the ways to smart start a business, the skills and duties of a successful entrepreneur, and how to write a business plan. To register, call 410-278-9669 / 7572.

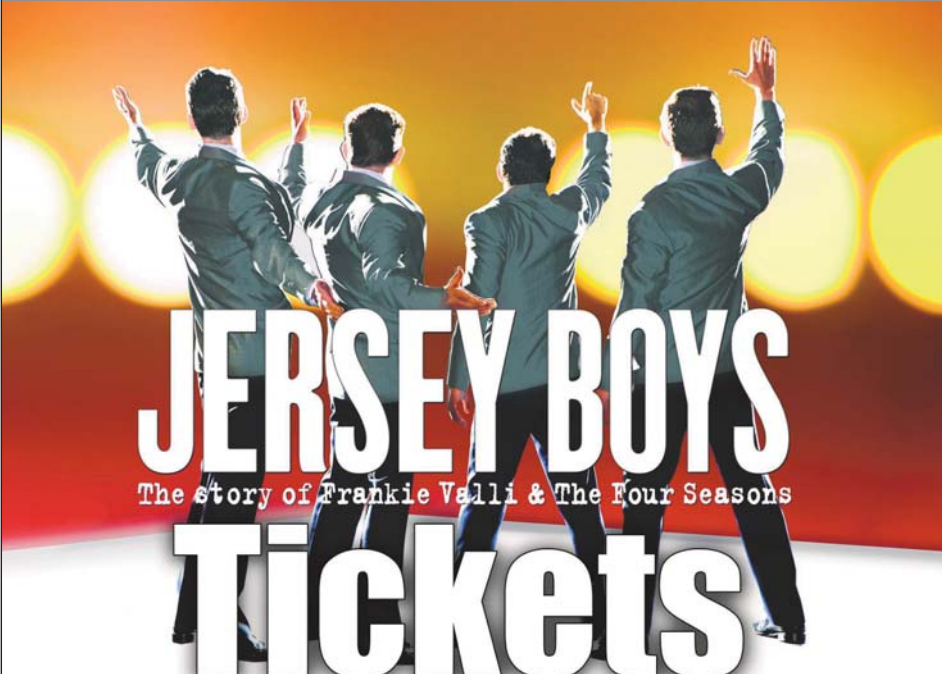
### DOLLARS AND SENSE JULY 28

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

## SPORTS & RECREATION

### NIGHT GOLF JULY 22

Exton Golf Course; 5:30 p.m. 18 holes, dinner provided. \$35 for member, \$45 for authorized, \$50 for guest. For more information, call 410-436-2213.



# JERSEY BOYS

The story of Frankie Valli & The Four Seasons




# Tickets

**The Hippodrome Theater Baltimore**  
Thursday, September 29, 2016 at 8:00 p.m.

Upper balcony seating  
Price: \$39 (while supplies last)

Upbeat, slickly produced and fast-paced! This is the true story of how four blue-collar kids became one of the greatest successes in pop music history. They wrote their own songs, invented their own sounds and sold 175 million records worldwide – all before they were 30! "Jersey Boys" show is not appropriate for small children.

To purchase visit MWR Leisure Travel Services at the AA Recreation Center, BLDG 3326.  
For questions call 410-278-4011/4907 or email us at: [usarmy.apg.imcom.list.apgr-usag-mwr-leisuretravel@mail.mil](mailto:usarmy.apg.imcom.list.apgr-usag-mwr-leisuretravel@mail.mil)  
For more information visit: [www.baltimore.broadway.com/shows/jersey-boys-baa2](http://www.baltimore.broadway.com/shows/jersey-boys-baa2)



Learn more about APG MWR activities & services by going online at [www.apgmwr.com](http://www.apgmwr.com) and downloading the FMWR Directory.



inside

LEADERSHIP

PM Mission Command welcomes new leader during change of charter ceremony.

Mission | B2

FUEL

ARL vehicle researchers learn from Air Force about improving combustion engines.

Air Force | B3

ACQUISITION

Acquisition leaders utilize lessons from research and development experience.

Program | B4

newsbrief

LRC ASSUMES NEW NAME: INTEGRATED LOGISTICS SUPPORT CENTER

CECOM

U.S. Army Communications-Electronics Command, or CECOM, Commanding General Maj. Gen. Bruce T. Crawford announced July 15 that the CECOM Logistics and Readiness Center will assume a new name, the CECOM Integrated Logistics Support Center, to be known as ILSC, effective Aug. 1, 2016.

The transition to ILSC better aligns CECOM with Army Materiel Command naming conventions and decouples CECOM logistics functions from those performed by the Army Sustainment Command Logistics Readiness Centers, which perform those functions at the local Installation Management Command garrison level in place of the former Directorates of Logistics.

ILSC customers should see seamless continuity of cutting edge logistics services.

"The CECOM Integrated Logistics Support Center will continue to provide superior global C4ISR logistics support to the warfighter and coalition forces, while planning for changes in Army strategy and advances in Army equipment that will enhance readiness today and for the future force," Crawford said.

CECOM provides integrated and sustained C4ISR readiness to enable unified land operations. Headquartered at Aberdeen Proving Ground, CECOM is comprised of approximately 13,000 military, civilian and contractor personnel spanning across five organizations worldwide.

online

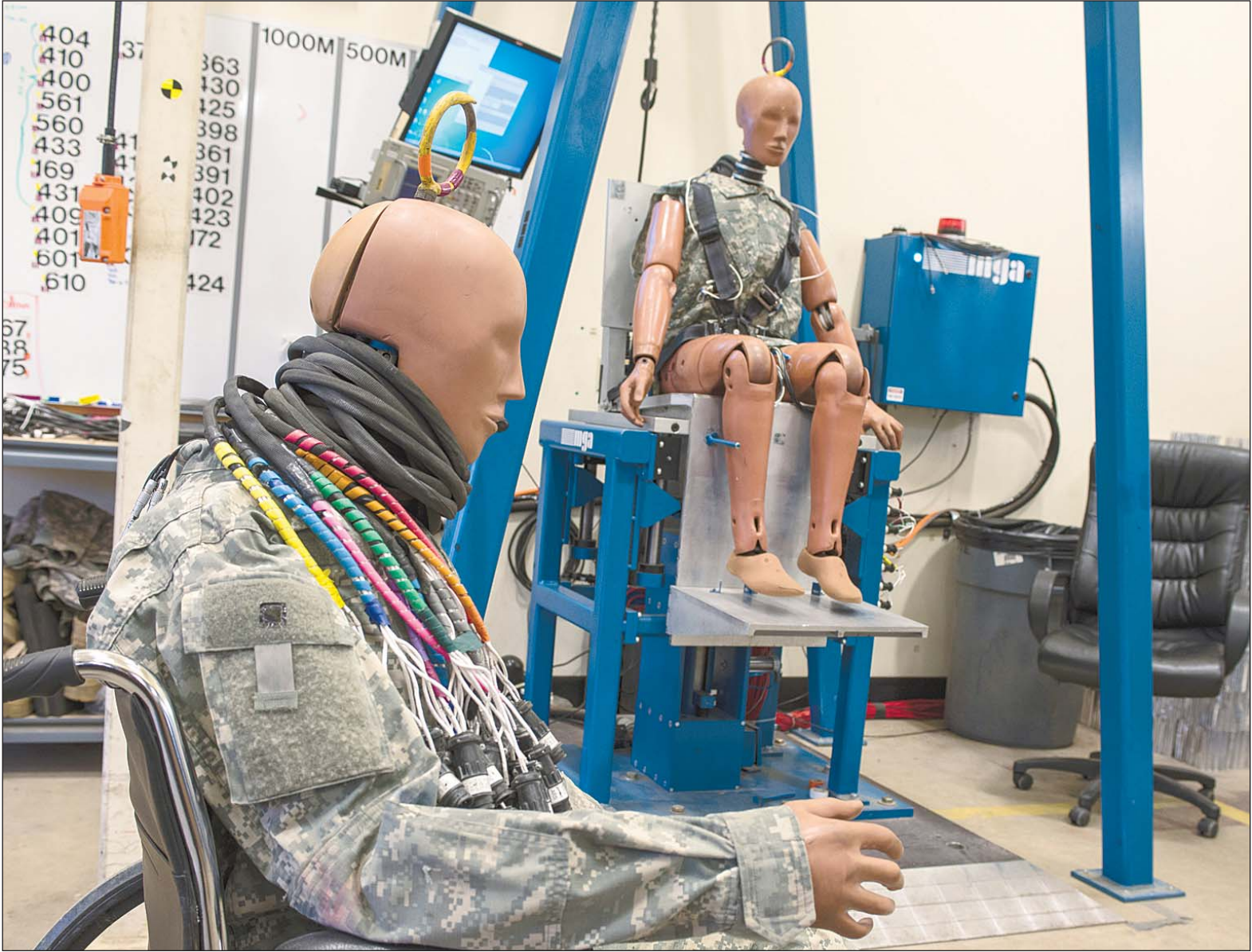
www.TeamAPG.com/APGNews

facebook.com/APGMd

twitter.com/USAGAPG

flickr.com/photos/usagapg/

ICE system  
http://ice.disa.mil/  
Facebook, http://on.fb.me/HzQl0w



Aberdeen Test Center photo

Aberdeen Test Center utilizes an expansive anthropomorphic test device, or crash test dummy, inventory to ensure armored vehicles will protect their occupants from roadside bombs. Employees working in the ATD lab spend upwards of two weeks repairing, validating and readying the Soldier stand-ins for each test event, which gleans just seconds-worth of survivability data.

# Testing for Soldier survivability

## Crash test dummies protect Soldiers from roadside bomb injuries

By **AMANDA ROMINIECKI**  
APG News

In an unassuming warehouse on Aberdeen Proving Ground sit nearly 50 men in uniform, waiting for their mission during an upcoming test event. They're sporting Army Combat Uniforms, standard-issue boots, a crane hook protruding from their heads, and a plethora of color-coded wires spilling out the back

of their necks.

These men are not human, but rather part of the Aberdeen Test Center's anthropomorphic test device inventory – the scientific term for a crash test dummy collection.

Charged with a mission to put any and all Army materiel through rigorous testing, ATC works diligently to ensure equipment made to protect Soldiers will do just that. This

includes vehicles armored to defend against roadside bombs, mines, and any other explosive a vehicle could drive over. This is where the test dummies come in.

According to Anthropomorphic Test Device Laboratory Director Christopher Monahan, test dummies – referred to as ATDs

**See ATC, page B7**

# ECBC explores decontamination gels

Edgewood Chemical Biological Center

Removing chemical, biological, radiological, and toxic contaminants from a range of surface types could be as easy as peeling off a sticker thanks to research conducted by scientists at the Edgewood Chemical Biological Center and industry partner CBI Polymer.

Jointly, ECBC and CBI Polymer researchers explored how a HydroGel can be modified to decontaminate surfaces contaminated with biological agents such as spores of *Bacillus anthracis*, which are capable of causing anthrax disease in humans and animals.

**See GELS, page B7**

Edgewood Chemical Biological researchers explored how a HydroGel can be modified to decontaminate surfaces contaminated with biological agents and this could make removing chemical, biological, radiological, and toxic contaminants from a range of surface types could be as easy as peeling off a sticker.

Courtesy photo



# New explosive destruction system being tested at APG



Chemical Engineering Technicians Chuck Kyle, center, and Adam Foor discuss the P2A Explosive Destruction System with Joel Groetsema, an intern at the U.S. Army Chemical Materials Activity.

The improved system, that will be used to support future operations at the Pueblo Chemical Agent-Destruction Pilot Plant in Colorado, arrived at APG in June with setup and testing continuing through September.

The P2A asset brings together several entities at APG, including the Program Executive Office, Assembled Chemical Weapons Alternatives, the U.S. Army Chemical Materials Activity and Edgewood Chemical Biological Center.

The transportable system is designed to safely treat and destroy munitions and other items that contain chemical agent fills, with or without energetic components.

Courtesy photo



# Chemical Society selects ARL scientist as fellow

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

A distinguished scientific society recognized a U.S. Army Research Laboratory scientist for “outstanding achievements in and contributions to science, the profession and the society.”

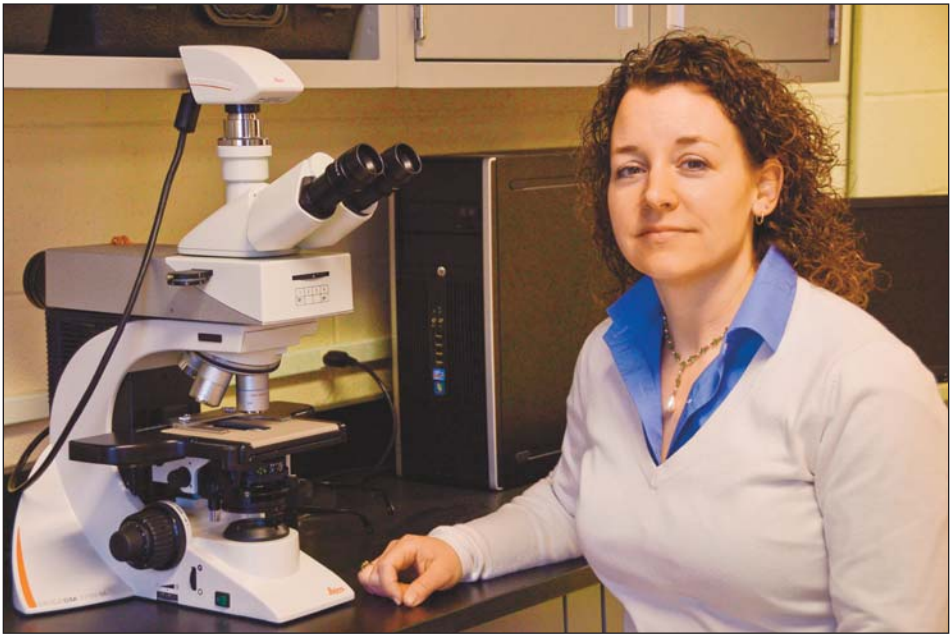
The American Chemical Society, or ACS, named Dr. Sandra K. Young, a research chemist and strong supporter of science, technology, engineering and mathematics, or STEM, outreach, as a fellow in a July 18 announcement.

The society has more than 185,000 members. A fellow designation is awarded to a member who, in some capacity, has made “exceptional contributions to the science or profession and has provided excellent volunteer service to the ACS community,” according to the organization’s website.

Nearly 15 years ago, Young started a National Chemistry Week program in Maryland with a small group of volunteers and an out-of-pocket budget of less than \$50.

“Through Dr. Young’s leadership, vision and determination, the Army Research Laboratory and Aberdeen Proving Ground outreach program grew to a \$1 million budget and now includes a dedicated STEM building and a cadre of volunteers spanning across many organizations,” said Dr. Rose A. Pesce-Rodriguez, an ARL fellow and senior research scientist. “She quickly became recognized as the go-to person for STEM outreach, not only within ARL, but across APG and the DOD. Most importantly, Dr. Young’s programs bring hands-on science to thousands of students each year.”

One of the society’s strategic goals is to be the “most effective global scientific community to engage members and other scientific professionals to advance science education, research, knowledge,



**The American Chemical Society named Dr. Sandra K. Young, an Army research chemist and strong supporter of science, technology, engineering and mathematics outreach, as a fellow in a July 18 announcement.**

interaction and collaboration,” according to past President Bruce E. Bursten.

In 2009, Bursten established the fellow program to honor members’ professional accomplishments.

“I absolutely loved that they recognized my dedication to STEM education and general promotion of chemistry in the community,” Young said. “It’s a great privilege to have worked with thousands of students over the years doing this and I’m really grateful that the ACS sees this as important.”

Throughout her career, Young said she has taken a personal interest in STEM education. She ran the APG STEM Center for the first two years of its existence while teaching and mentoring middle school, high school and college students, and encouraging the continuing education of teachers. She has also taught an

introduction to chemistry class for non-chemistry majors at a local community college since 2003.

Pesce-Rodriguez said the secret to Young’s success is no mystery.

“Sandy is extremely well organized; she is skilled at planning out an activity or program and identifying the critical components and time lines, and then working with whomever required to get the job done,” Pesce-Rodriguez said. “Most importantly, she is a leader who works with folks in such a way that they are happy to help her and to push the mission forward.”

As program integration specialist, she currently is the strategy lead for the U.S. Army Research, Development and Engineering Command’s International Cooperation and Exchange team, covering the Atlantic region and NATO

engagements. Young also manages the command’s Engineering and Scientist Exchange Program.

A native of Chicago, Illinois, Young earned a bachelor of science degree in chemistry from DePaul University in 1994. The University of Southern Mississippi awarded Young a doctorate in polymer science and engineering in 1999.

“I accepted a postdoctoral fellowship with the U.S. Army Research Laboratory’s Weapons and Materials Research Directorate at Aberdeen Proving Ground before getting hired permanently in December 2000,” she said.

Young has served in many capacities: materials research engineer in the Polymers Branch, technical advisor to the WMRD director, ARL liaison officer for the Assistant Secretary of the Army’s Office for Research and Technology at the Pentagon, deputy branch chief for the Materials Applications Branch, materials research engineer in the Propulsion Science Branch, technical coordinator for the Lethality Division and ARL liaison and basic research portfolio manager to the U.S. Army Research, Development and Engineering Command.

“I’ve never been one to think that learning is over,” she said. “I am set to complete a master of business administration degree at University of Maryland, College Park in September 2016.”

Young is also working on her Defense Acquisition University Level III certification for program management.

“I am honored and humbled to have been nominated and selected as an ACS fellow,” Young said. “I’m weighing future options. I pursue opportunities where I’m challenged, will learn something new and that makes a difference for the Army and the Soldier. I’m excited to see what happens next.”

# Mission Command leader passes the program charter

By **NANCY JONES-BONBREST**  
*PEO C3T*

As the outgoing leader of the Army’s mission command project office, Col. Michael Thurston was instrumental in improving and modernizing mission command capabilities to deliver the information commanders and Soldiers need in order to execute decisive action anytime, anywhere and on any device.

Among his many accomplishments at the helm of Project Manager Mission Command, known as PM MC, Thurston worked tirelessly to transition standalone mission command systems into an integrated, Web-based environment with user-friendly applications that deliver warfighting functions, all merged on common hardware with a shared view of the battlefield.

“Similar to how we use our smartphones, tablets and laptops interchangeably, commanders will be able to plan a mission in the command post, then view and execute this plan while mobile in their vehicles and even while dismounted using handheld devices,” Thurston said. “First and foremost, we are trying to make it simpler and that resonates here more than anywhere because Soldiers touch these systems to execute their most fundamental missions.”

With 28 years of experience in tactical and strategic communications, including leading major networking and radio programs, Thurston was charged with overhauling much of the Army’s tactical application infrastructure. During his tenure with PM MC, which is assigned to the Program Executive Office for Command, Control and Communications-Tactical, or PEO C3T, he oversaw the consolidation of two project management offices – PM MC and PM Joint Battle Command-Platform, or JBC-P – to better align modernized command post capabilities with mounted mission

command capabilities.

Thurston’s contributions were recognized by Gary Martin, program executive officer for C3T, during a change of charter ceremony on July 13 at the Myer Auditorium on APG North (Aberdeen), where he formally passed the PM MC charter to the incoming project manager, Col. Troy Crosby.

Under Thurston’s leadership, the program upgraded a number of key Army and joint mission command programs to improve capability. Thurston managed the upgrade to the Army’s mounted situational awareness and friendly force tracking capability known as Force XXI Battle Command Brigade and Below/Blue Force Tracking. This two-phase upgrade included the fielding of Joint Capabilities Release, as well as managing the development, testing and first unit fielding of JBC-P. He also led the convergence of operations, intelligence and network-based transport server architectures on a single Tactical Server Infrastructure, or TSI, as part of the Command Post Computing Environment. TSI replaces separate server stacks and reduces burden on Soldiers while creating efficiencies in training, fielding and sustainment.

“It has truly been my honor to serve PM MC alongside an outstanding team and I want to thank every one of them for their service and great work,” Thurston said. “The focus was always on delivering the best capability we could to the Soldier.”

Thurston began his new assignment, serving as the deputy to Maj. Gen. Neil Thurgood, the Deputy for Acquisition and Systems Management for the Assistant Secretary of the Army (Acquisition, Logistics and Technology), in January. In the interim, Thurston’s deputy, Rob Tisch served as the acting project manager for mission command.



**Col. Michael Thurston, left, outgoing project manager for Mission Command passed the program’s charter to incoming project manager Col. Troy Crosby, right, during a ceremony at the Myer Auditorium on APG North (Aberdeen) July 13. Gary Martin, program executive officer for C3T, center, hosted the ceremony.**

As the incoming project manager, Crosby said he is looking forward to returning to the PEO C3T family and working with the mission command team to build on the great work already in place.

“This is an exciting time for mission command,” Crosby said. “It spans capabilities that are in early development, all the way to those that are almost fully fielded and ready to go to sustainment. So I enjoy that spectrum of capabilities we are delivering to Soldiers.”

This is not the first assignment to PEO C3T for Crosby who previously served as Product Manager Network Systems, which became part of Project Manager Tactical Radios. He also

helped lay the groundwork for the first Capability Set fielding, which brought an integrated network package of mobile communications capabilities to Soldiers. The Capability Set systems ensured U.S. troops outfitted with the latest communications gear could employ effective mission command to operations in remote and challenging terrain.

“I am excited to again work on delivering tactical network capabilities for the Army with the mission command team,” Crosby said. “As we develop and field the Army’s expeditionary mounted mission command and command post capabilities, I am confident the team will continue the tradition of excellence it is known for.”

## WORD OF THE WEEK

# Prowess

**Pronounced:** prou-is

**Part of Speech:** Noun

**Definition:**

1. Exceptional valor, bravery, or ability, especially in combat or battle.
2. exceptional or superior ability, skill, or strength:

**Use:**

- We haven’t always celebrated intellectual prowess in this country.
- He embarked on an engaging soliloquy that perfectly displayed his prowess as a thinker and a wordsmith.

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

## ACRONYM OF THE WEEK

# INSCOM

**U.S. Army Intelligence and Security Command**

The United States Army Intelligence and Security Command, or INSCOM, is a direct reporting unit that conducts intelligence, security, and information operations for U.S. Army commanders and national decision makers. INSCOM is headquartered at Fort Belvoir, Virginia.

INSCOM is an organization within both the U.S. Army and the National Security Agency, the nation’s unified signals intelligence organization. Within the NSA, INSCOM and its counterparts in the U.S. Navy and U.S. Air Force are known as Central Security Service. INSCOM’s budget has been estimated to be \$6 billion.

By **YVONNE JOHNSON**, APG News  
Source(s):



# Air Force scientist delivers fuels seminar to Army researchers

U.S. Army Research Laboratory

Army researchers gathered for an in-depth look at optimizing the inner workings of combustion engines during a seminar by visiting Air Force scientist Dr. Joseph Lefkowitz July 13, at the Vehicle Research Laboratory.

Lefkowitz’s work with the U.S. Air Force Research Laboratory explores the plasma/combustion interaction from a chemical, kinetic perspective using both high-density localized discharges and low-density diffuse discharges.

The Vehicle Technology Directorate of the U.S. Army Research Laboratory seeks technology solutions for mobilizing tomorrow’s Soldiers. The researchers support the lab’s Sciences for Maneuver Campaign.

“It is found that high-energy electrons initiate chain propagating or branching reactions, which can maintain oxidation at temperatures far below the auto-ignition threshold,” Lefkowitz said. “In

high-frequency pulsing, these kinetic effects result in a positive feedback loop in which radical species are produced by both the plasma and combustion reaction processes in series, leading to the observed ignition enhancement.”

Lefkowitz is a National Research Council Research Associate in the Hypersonic Sciences Branch at the Air Force Research Laboratory. He received his doctorate in mechanical and aerospace engineering from Princeton University in January 2016.

Lefkowitz’s research interests include plasma-assisted combustion, ignition dynamics, chemical kinetics in plasmas and flames, and optical techniques in reacting flows. His doctoral dissertation explored the kinetics of hydrocarbon oxidation exposed to repetitively pulsed nanosecond-duration discharges.

His current work at the AFRL explores ignition in high-speed flows and in highly turbulent environments relevant to scramjet combustors.



Photo by David McNally, ARL

Air Force scientist Dr. Joseph Lefkowitz delivers a seminar to Army researchers July 13, at the Vehicle Research Laboratory at APG.



## ***RISE program turns local students into STEM interns***

Interns work together during a leadership exercise for the 2016 R.I.S.E. (Real-world Internships in Science & Engineering) program at Aberdeen Proving Ground.

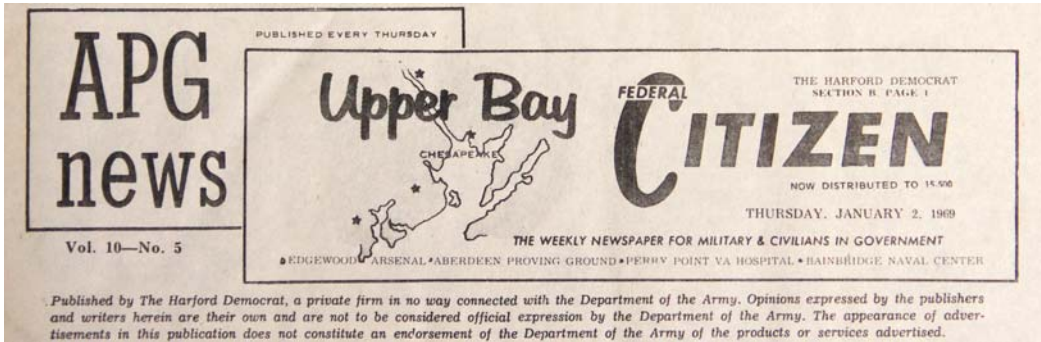
The 27 specially selected high school students from Harford and Cecil County Public Schools will work side-by-side with engineers and scientists in various Communications-Electronics Research, Development and Engineering Center laboratories as an introduction to how the U.S. Army uses science, technology, engineering and math to equip today’s Soldier.

U.S. Army photo

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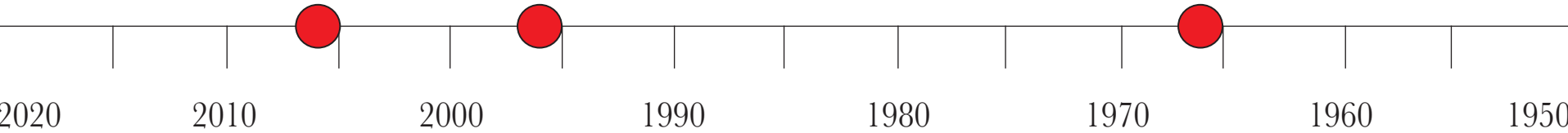


# This Week in APG History



Take a look back in time as the APG News explores what made the headlines around APG during this week 10, 25 and 50 years ago. This week’s APG News masthead is from 1969.

By **YVONNE JOHNSON**, APG News



## 10 Years Ago: June 27, 2006



APG children look on as Garrison Commander Col. John T. Wright slices into the ceremonial cake celebrating the 41st birthday of Army Community Service at Maryland Boulevard Park.

## 25 Years Ago: June 24, 1991



From left, Crab Shack owner Patrick Mullin, building renovator Patti Rae and Deputy Installation Commander Col. Robert W. Mortis hold a tray of the seasons’ first crabs while celebrating the projected opening of the Crab Shack in the Maryland Club near the Aberdeen Boulevard gate.

## 50 Years Ago: June 21, 1966



Merchandise movers Ronald Knight, right, and Ronald Simar, left, rush a shipment of goodies to the APG branch exchange store in preparation for the Army and Air Force Exchange Service 71st anniversary.

# Program of record leaders find inspiration in S&T experience

By **KATHRYN BAILEY**  
CERDEC CP&I

With just three weeks into their new positions leading U.S. Army acquisition programs, two lieutenant colonels say that they are bringing a unique, holistic perspective to their organizations thanks to their previous posts in the Army research and development community.

Lt. Col. Michael Baker, the new Product Manager for Handheld, Manpack and Small Form Fit, or PdM HMS, and Lt. Col. Shane Sims, now the Product Manager, or PdM, for Joint Battle Command-Platform, or JBC-P, held positions within the Army Materiel Command’s Communications-Electronics Research, Development and Engineering Center, or CERDEC, as a directorate deputy director and the center’s acting military deputy, respectively.

“Experience in the research and development realm has provided perspective on the enormous challenge of predicting and leveraging technologies within the needs of the Warfighter in order to maintain overmatch despite an uncertain future,” Baker said. “I believe I’m better able to visualize how my program might evolve technically within the system of systems and invest in areas that can pay huge cost, capability, interoperability and sustainment dividends in the future.”

Baker is charged with developing and fielding the next generation of software-defined tactical radio systems. Sims, once the assistant product director Strategic and Tactical Mission Command, is now in charge of delivering the Army’s JBC-P and Blue Force Tracking system.

“The S&T [science and technology] community provides huge risk mitigation to programs by helping clearly define technical requirements and addressing concepts early in the process,” said Sims. “My CERDEC assignment enlightened me as to how we could take advantage of this valuable asset.”

While Baker and Sims are bringing their combined S&T and Program of Record, or POR, experiences to their programs, Baker noted that an assignment with a product-specific linear progression could be a viable option to best advance technologies from concept to fielding cutting-edge solutions.

“It would be great to see opportunities for officers to first champion and prove a concept within the R&D community, then develop and transition with the program across the fence to the procurement community,” Baker said.

Other leaders from both sides of the equation are leveraging their experiences to ensure the best product reaches the Soldier in the least amount of time.

“When you are on the PM-side, you



(Left) Lt. Col. Michael Baker addresses students at the CERDEC Math and Science Summer Camp Closing Ceremony Aug. 19, 2015. Baker has an extensive S&T background that will help him better understand and clarify technical requirements to streamline his new organization’s acquisition process.

Photo by Kristen Kushiya, CERDEC

are completely engaged managing cost, schedule, and performance and meeting written requirements,” said Christopher Manning, CERDEC Command Power & Integration Directorate acting director. “Pursuing innovative ways to meet or exceed those requirements doesn’t always fit nicely into a defined program plan.”

The challenge in S&T is to find those innovations and work with the PMs to figure out where they can effectively transition into a POR, Manning explained.

In addition to refining requirements, POR and S&T partnerships are speeding up the acquisition process, which traditionally can take up to seven years. Faster builds and deployment equate to substantial monetary savings.

“Ideally, the S&T community uses its funding to provide the drawings, specs and even demonstrators or prototypes,” Sims said. “Through an iterative development process and by teaming with PORs, they can efficiently transition the technology to the PM. It’s also going to be incumbent upon the PORs to take time to collaborate and team with their S&T partners to lean ahead in their program timelines to innovate future solutions.”

This process allows a capability to grow from concept to low-rate production much faster, sometimes in less than a year, and allows for substantial cost savings versus going through the traditional acquisition route, Sims said. Once the capability is proven, CERDEC transitions the work to an industry partner or Army depot for full-rate production.

“Government-developed and owned solutions have the benefit of enabling programs to open products to competition that might otherwise end up locked to a single vendor,” Baker said. “The organic engineering expertise and capa-



(Below) Col. Shane Sims explains how CERDEC is developing expeditionary mission command post capabilities for Soldier testing and feedback. Sims, now the product manager for Joint Battle Command-Platform, will leverage his experiences using prototypes and demonstrations to help refine his organization’s products early in the development phase.

Photo by Kathryn Bailey, CERDEC CP&I

bility in the R&D community also provides tools to help PMs negotiate from a position of knowledge and strength when championing realistic user requirements and assessing the value of commercial products and proposals.”

Baker and Sims say they plan to capitalize on every S&T resource available to help their teams envision and produce leading-edge Soldier systems.

“In the budget constrained environment we are living in, PORs need to start viewing their S&T organizations as partners and not vendors or other contract options,” Sims said. “It’s all about relationships and knowing how the Army has set up and funded these separate organizations so that we can quickly deliver the best capabilities to our Soldiers.”



# Fuel station closes on Ozone Action Days

Compiled by **AMANDA ROMINECKI**  
*APG News*

Every day the Air Quality Index, or AQI, available at [www.airnow.gov](http://www.airnow.gov) outlines how clean or polluted the outdoor air is within the community, along with associated health effects that may be of concern.

The AQI, populated by The U.S. Environmental Protection Agency, National Oceanic and Atmospheric Administration, National Park Service, tribal, state, and local agencies, translates air quality data into numbers and colors that explain when people should take action to protect their health.

According to the EPA, the five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants, the EPA has established national air quality standards to protect public health. Ground-level ozone and airborne particles are the two pollutants that pose the greatest threat to human health in this country.

**How Does the AQI Work?**

AirNow says to think of the AQI as a yardstick that runs from 0 to 500. The higher the AQI value, the greater the level of air pollution and the greater the health concern. For example, an AQI value of 50 represents good air quality with little potential to affect public health, while an AQI value over

Air Quality Index (AQI) Values	Levels of Health Concern	Colors
<i>When the AQI is in this range:</i>	<i>..air quality conditions are:</i>	<i>...as symbolized by this color:</i>
0 to 50	Good	Green
51 to 100	Moderate	Yellow
101 to 150	Unhealthy for Sensitive Groups	Orange
151 to 200	Unhealthy	Red
201 to 300	Very Unhealthy	Purple
301 to 500	Hazardous	Maroon

300 represents hazardous air quality.

An AQI value of 100 generally corresponds to the national air quality standard for the pollutant, which is the level EPA has set to protect public health. AQI values below 100 are generally thought of as satisfactory. When AQI values are above 100, air quality is considered to be unhealthy-at first for certain sensitive groups of people, then for everyone as AQI values get higher. The table ABOVE shows the numbers and colors associated with the different air quality ranges.

**Ozone Action Days at APG**

Harford County is located in a moderate ozone nonattainment area where

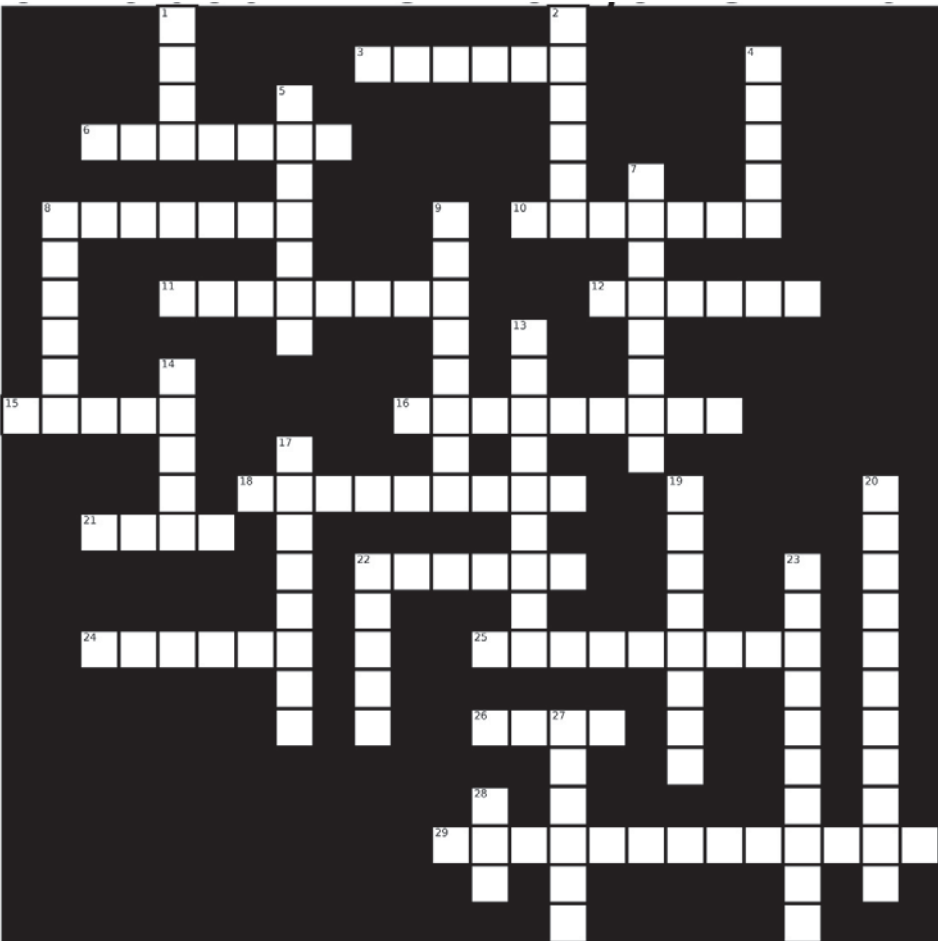
the air quality does not meet the national ambient air quality standards for ozone. Ground level ozone, commonly referred to as smog, forms when volatile organic compounds and nitrogen oxides combine in the presence of heat and sunlight. When air quality is expected to reach unhealthy ranges, Ozone Action Days are declared.

At Aberdeen Proving Ground, Ozone Action Days are declared when air quality reaches “orange,” “red,” “purple,” or “maroon” levels. Filling up a vehicle’s gasoline tank releases volatile organic compounds into the air, adding to the smog levels. As such, the fuel station on post closes on

Ozone Action Days during peak hours between 9 a.m. and 3 p.m.

White flags with an orange sunburst indicating Ozone Action Days are posted at various locations across the installation, including near the entrances and by the fueling stations.

For more information about air quality or ozone action days, visit [www.airnow.gov](http://www.airnow.gov) or <http://www.mde.state.md.us/programs/Air/AirQualityMonitoring/Pages/index.aspx>. For more information about Ozone Action Days at APG, contact APG Directorate of Public Works Environmental Compliance Branch employee Dr. Hazoor Khan at 410-306-2278.



## The APG Crossword

### The “Forgotten War”

Did you know The Korean War began 4:30 a.m., June 25, 1950? It ended July 27, 1953 and every July 27 the nation honors National Korean War Veterans Armistice Day. More than 7,000 Soldiers remain missing in action from this undeclared conflict. How much do you know about the “Forgotten War?”

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

#### Across

3. He was the highest ranking military officer to die in the Korean War after a truck hit his jeep, Dec. 23, 1950.
6. During the Korean War, U.S. Army and United Nations forces were led by Gen. Douglas MacArthur and, then, by this general who would later replace future President Dwight Eisenhower as Supreme Allied Commander Europe and then serve as the Army Chief of Staff.
8. The 1951 expressionistic painting, “Massacre in Korea” by this founder of the cubist art movement, criticizes American intervention in the war.

10. In March 2013, North Korea declared the 1953 armistice that rendered the Korean War \_\_\_\_\_.
11. A statue of the little-known heroic horse that brought ammunition to Soldiers and carried the wounded off the battlefield known as “Sgt. \_\_\_\_\_,” is on display in the National Museum of the Marine Corps.
12. The U.S. dropped more bombs in Korea - 635,000 tons, as well as 32,557 tons of this substance – than in the entire Pacific Theater during World War II.
15. After the war, 21 American Soldiers who chose to stay with their Chinese captors were hailed in China as “\_\_\_\_\_

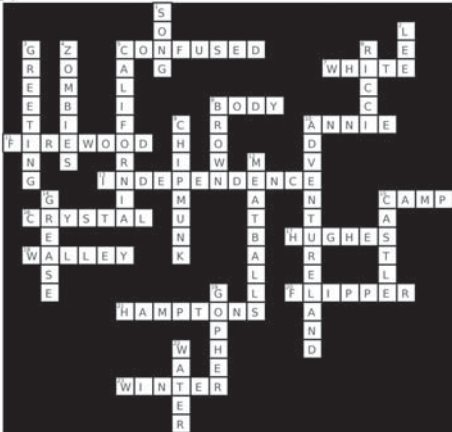
- Fighters.”
16. This U.S. Air Force flying ace of the Korean War shot down 16 enemy planes, including three MIG-15s in a single day. He died tragically in a test flight accident in August 1954.
18. The Korean War Veterans Memorial in Washington, D.C., was designed and managed by the Korean War Veterans Advisory Board and the American Battle \_\_\_\_\_ Commission.
21. The Korean War was the first military action of this war.
22. Temperatures dipped to as low as -54 degrees during the brutal Korean War battle fought in this Reservoir Nov. 27 to Dec. 13, 1950.
24. The North Korean film series, “\_\_\_\_\_ Heroes,” told the story of a spy in Seoul, South Korea during the Korean War and featured American defectors James Joseph Dresnok and Charles Robert Jenkins.
25. This 67-ton British tank, with its 105 mm main gun, and named for an officer of the Roman army, was the most powerful tank to see action in the Korean War.
26. Designed to provide life-saving care closer to combat zones, these medical units were first used in the Korean War.
29. The June 27, 1953 armistice allowed for the return of prisoners and created the Korean \_\_\_\_\_ Zone.
- Down
1. This American Army brigadier general’s career ended badly after he was taken hostage by North Korean POWs during a camp uprising and made embarrassing admissions to secure his own release, handing the enemy a propaganda victory.
2. Eisenhower and this 33rd president considered dropping atomic bombs on Korea but feared starting World War III.
4. Nineteen stainless steel statues representing a \_\_\_\_\_ on patrol, stand within the walled triangle of the Korean War Veterans Memorial.
5. At the outbreak of the war, the U.S. rushed this new weapon into service; it could fire a 3.5-inch rocket capable of penetrating North Korean armor.
7. The Korean War began June 25, 1950 when 75,000 North Korean soldiers poured over the 38th \_\_\_\_\_ into South Korea.
8. Because President Harry Truman never asked Congress for a formal declaration of war, officially, the Korean War was never more than a \_\_\_\_\_ action.
9. Forty-one American Prisoners of War were executed by North Korean troops during the August 1950 war crime known as the Hill 303 \_\_\_\_\_.

13. The temperature in some areas fell below zero for long periods of time and many Soldiers died from this invasive winter ailment which also led to infections, skin cancer and joint deterioration.
14. This capital of South Korea changed hands four times during the Korean War. It was captured by the North Koreans on June 28, 1950, and then retaken by UN forces that September. The Chinese seized the city in January 1951, but surrendered it two months later.
17. The world’s first all-jet \_\_\_\_\_ occurred during the Korean War on Sept. 8, 1950.
19. Though hostilities officially ended in 1953, \_\_\_\_\_ lengthened the recognized war period to 1955 because peace was still uncertain.
20. The American media claimed that American POWs who chose to stay with their captors were \_\_\_\_\_.
22. This Commander-in-Chief of the United Nations Command signed the armistice for the U.S. that ended the Korean War on July 27, 1953.
23. Hollywood made far fewer movies about the war than it did for World War II; still some well-known films include “Pork Chop Hill,” 1959; “Birthday Boy,” 2004; and “The \_\_\_\_\_ Candidate,” 1962.
27. During the war, North Korea was supported by the People’s Republic of China and the \_\_\_\_\_ Union.
28. The inscription on a plaque near the Korean War Veterans Memorial Pool of Remembrance reads: “Our nation honors her sons and daughters who answered the call to defend a country they never knew and a people they never \_\_\_\_.”

Think you solved last week’s puzzle?

Check out the solution below

Solution to the July 14 puzzle





## Have a great idea for a story?

Know about any interesting upcoming events?

**The APG News accepts story ideas and content you think the APG community should know about.**

- Story ideas or content must be geared toward the greater APG community and cannot appear to endorse any private company.
- The deadline for content to appear in an upcoming issue of the APG News is the **Thursday PRIOR** to publication. The APG News cannot guarantee submissions received after the Thursday prior to publication will appear in the next issue of the paper.
- Send story ideas or pre-written content to [amanda.r.rominiecki.civ@mail.mil](mailto:amanda.r.rominiecki.civ@mail.mil) or call 410-278-7274 for more information.

Please note, the APG News editor reserves the right to (1) reject any content deemed inappropriate, irrelevant or against regulation, (2) delay the publication of submitted material if it is not timely and (3) edit or shorten content for space and style reasons without altering the meaning of the submission.



# ATC repurposes auto-industry crash dummies

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– are used by ATC to determine the likelihood of a Soldier being injured inside a vehicle during an under-body blast.

“An ATD is put in each seat of a vehicle during an under-body blast test event,” he said. “We look at the data they collect to see if a Soldier would be injured if they were sitting in that same seat.”

Each ATD has more than 50 channels of data, including load cells, accelerometers and tilt sensors spread throughout its head, chest, pelvis and extremities that Monahan said helps the U.S. Army Test and Evaluation Command determine if a Soldier would sustain a skeletal injury in a similar real-world situation.

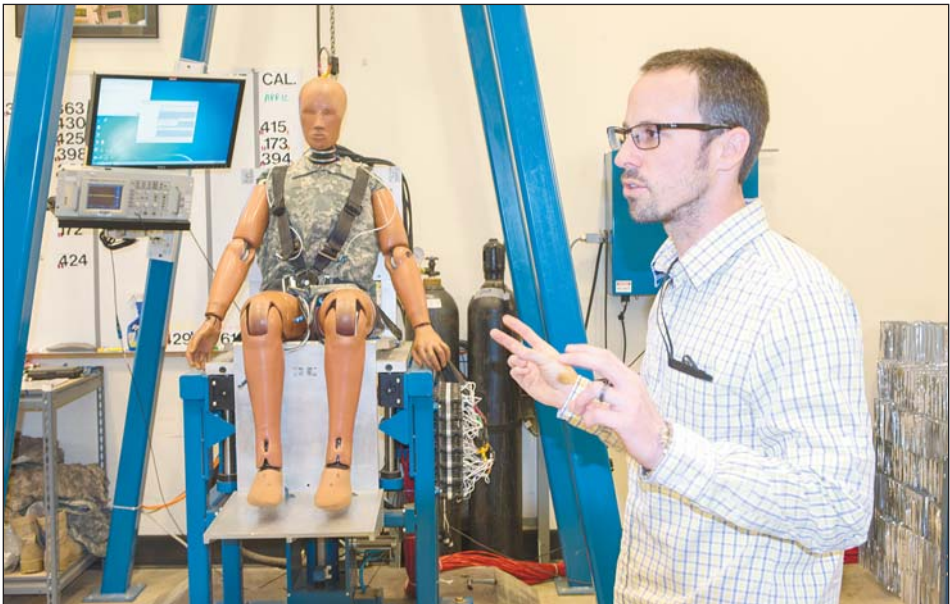
The ATDs used by the Army are the same ones Americans would likely recognize from videos of car crash testing or Buster from the popular show “Mythbusters.”

“Our ATDs weren’t intended for military use,” Monahan said. “They are based on automobile industry models from the 1970s – the same ones you’d recognize from TV.”

At \$150,000 a piece, ATC re-purposes auto-industry ATDs for rigorous Army testing. Most of the equipment used in the lab mirrors that of a commercial crash-test facility, except for one.

Because the ATDs are repurposed, they don’t inherently provide all the data the Army is looking for. To circumvent this issue, ATC developed a machine unique to the Army called a lumbar validation fixture. Critical pelvic and lumbar injuries are common in under-body blasts, and the lumbar validation fixture helps ATC determine the condition of an ATD’s pelvis and lumbar spine before certifying it ready for a test event.

The cycle surrounding ATD use in a test event is meticulous, indicative of the



Aberdeen Test Center photo

**Anthropomorphic Test Device Laboratory Director Christopher Monahan explains how the lumbar validation fixture created by Aberdeen Test Center allows the Army to better test for the critical pelvic and lumbar injuries that commonly occur after an explosion beneath a vehicle, called an “under-body blast.”**

level to which the Army is dedicated to Soldier survivability.

Before an ATD can be used in a test event, it must be evaluated. Monahan and the lab’s three technicians ensure each ATD’s physical composition, metal skeletal structure, sensors and electrical wiring all meet testing standards. These evaluations take place at every juncture of testing, almost redundantly. The expense of explosive testing demands that all components of the test event, including ATDs, be in precise working order. The failure of just one component of an ATD can void the entire test, possibly delaying the fielding of life-saving technology for Soldiers on the battlefield.

“We do almost two weeks of work for a maximum of four seconds of data,”

Monahan said.

According to lab electronic technician Kyle Rothrock, the results gleaned from just those four seconds allows for quick decision-making on the Army’s part.

“We’re able to find things sooner, rather than later,” he said, describing different components that manufacturers develop for military vehicles, and whether they live up to the claims of improving Soldier survivability. “It can result in quick-reaction fields for vehicles overseas.”

The lab is preparing for the arrival of a new ATD model, developed specifically by the Army, for the Army. The program, called WIAMan for Warrior Injury Assessment Manikin, is led by the Research, Development and Engineer-

ing Command. The new ATD, still several years away from practical use, will combine new sensors (140+ channels of data) and lessons learned from casualties in Iraq and Afghanistan to record data much more specific to underbody blasts than current models can provide.

The ingenuity of repurposing automobile industry ATDs has served the lab well thus far; the expertise found in this laboratory is so unique that ATC draws customers from the Marine Corps, U.S. State Department, and private companies.

“We’re the only ones in the DOD that do this,” Monahan said, and likely one of the few in the country who use auto industry ATDs for this purpose. Any entity seeking to produce or validate an armored vehicle would likely find the work done at this lab appealing.

With a mechanical engineering background, the construction, validation and repair of test dummies wasn’t exactly part of his college curriculum, Monahan said.

“I never would have, or could have, learned about what I do here [in college],” Monahan said, adding that some principles transferred and other skills were learned on the job during his eight years at ATC.

The newest addition to the ATD lab, William Cabungcal, a young biomedical systems engineer who also didn’t see himself working in a test dummy lab, mirrored sentiments shared by his co-workers when asked what the best part of his job was.

“Our data actually means something,” he said.

“It’s good to know that we’re making a difference,” Monahan added. “To know that we’re giving Soldiers a better chance to survive overseas and come home – it is rewarding.”

# Gels tested for decontamination, biological sampling

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HydroGel is a biosynthetic polymer that can be sprayed, painted or poured on a surface. HydroGel then dries into a film, which can be peeled away and disposed of with little to no threat to the environment or the operators. The peeled gel does not generate any water waste and traps any toxic contaminant, such as biological spores, which removes the threat of the agent re-aerosolizing. Conventional decontamination methods involve spraying soapy water and liquid sporicidal agents, which generates a high volume of wastewater that could flow into drains and be added to the environment or be otherwise difficult to safely collect and dispose of. These methods also pose a threat to the operators if residual waste gets sprayed on them.

CBI Polymer created HydroGel to remove toxic material from hard surfaces in an industrial setting. The ease of use, safety and significantly reduced burden to the environment caused ECBC scientists to explore if HydroGel could be applicable as a sampling tool for biological contaminants on surfaces. In 2013, ECBC entered a Cooperative Research and Development Agreement (CRADA) with CBI Polymers to create modified HydroGel formulas that could decontaminate biological spores. Led by senior research biologist Dr. Vipin Rastogi, ECBC researchers developed two advanced formulas, called DeconGel that can successfully decontaminate multiple surfaces of biological agent.

**A game-changer for infrastructure decontamination**  
The Department of Homeland Security

**“A technology such as DeconGel, which is easy to apply in hard to reach places, could be a real game changer for... scenario-specific decontamination.”**

**Dr. Vipin Rastogi**  
ECBC Senior Research Biologist

Science and Technology Directorate (DHS S&T) has been researching how to decontaminate a subterranean environment such as a subway station, if contaminated by virulent biological spores. Rastogi and Dr. Garry Edgington, Chief Scientist and Vice President for Research and Development at CBI Polymers, felt that DeconGel could be a great solution for that situation. Donald Bansleben, a DHS S&T Program Manager, sponsored the collaboration between CBIP/Metis and ECBC for the subway application.

Rastogi and his team conducted research that proved that DeconGel could remove biological spores from four surfaces commonly found in subways: steel, aluminum, concrete and tile.

“Underground train stations are very complex with all types of curves and angles. There are multiple types of surfaces next to each other that are architecturally challenging,” Rastogi said. “A technology such as DeconGel, which is easy to apply in hard to reach places, could be a real game changer for this scenario-specific decontamination.”

Bansleben said he feels that Decon-

Gel could be helpful in decontamination efforts.

“A universal decontaminant does not exist, but DeconGel can be another tool in the toolkit for remediation of biological agent contamination,” he said.

**Better collection of biological samples from surfaces**

Lisa Smith, an ECBC research biologist, and Rastogi were very curious to see if HydroGel had any potential for biological sampling applications in its original unmodified form. As a part of an internal ECBC basic research program, Smith and Rastogi used the base HydroGel as a potential tool to collect biological agent from porous and non-porous surfaces.

“In current methods, if you suspect that a surface is contaminated you would either use a wipe or a swab to rub down the surface, collect whatever is on it and analyze it in hopes of identifying what the substance is,” Rastogi said. “We wanted to answer the question: ‘could the original HydroGel be used to collect, preserve, and retrieve bio samples for analysis and characterization?’”

The difference between this HydroGel

and the DeconGel use is that in DeconGel, the formulation kills the spores as gel dries into a film. Encapsulation of the spores in HydroGel allows the spores to remain intact for forensics analysis.

“The answer is yes, it is very successful,” Rastogi said.

HydroGel used in this way protects the sample better. While wipes and swabs are proven, successful methods, they tend to interfere with the sample by spreading it around, or at times it may not pull enough sample from the surface to enable precise contamination assessment and testing.

**New agreements and studies**

ECBC is in the process of initiating a new inter-agency agreement with the Environmental Protection Agency’s National Homeland Security Research Center in North Carolina to compare the cost and effectiveness of sporicidal chemicals when applied as liquids, gels, and foams and predict the best option for rapid decontamination of large surfaces in the event of a bioterrorism release. This joint program will likely start in the third quarter of FY 2016, and is a shining example of long-standing on-going partnership between the two federal agencies, which began over ten years ago in 2004.

In the future, Rastogi said he would like to research a composition where DeconGel could be effective for chemical agent decontamination.

“DeconGel has a lot of potential and could change a lot in the field of broad-hazard decontamination, including CBRNE threats,” he said. “So we are exploring it and its uses to the fullest.”



## Did You Know ?

**The U.S. Army commander of a United Nations Prisoner of War Camp during the Korean War became its highest ranking hostage during an uprising by North Korean POWs.**

A graduate of the U.S. Military Academy at West Point, Francis Townsend Dodd was a veteran of World War II when he was promoted to brigadier general and assumed the duties of deputy chief of staff for Gen. James Van Fleet’s Eighth Army in Korea in 1951. Van Fleet went on to command all United Nations forces in Korea.

In February 1952, Brig. Gen. Dodd took command of the prisoner-of-war camp on Koje-Do Island after a U.S. soldier had been killed and 138 POWs wounded during an inmate uprising.

On May 7, Dodd visited one of the prison compounds under his command to listen to complaints from the Communist leaders within the camp. During some confusion at the gates, he was forcibly seized and held hostage.

During his three days of captivity, hurried negotiations were issued for

his release, led by Gen. Charles F. Colson. Dodd said he was treated well during this time though he resisted the hostage-takers’ chief demand: admit UN forces responsibility for the bloodshed within the camps. Colson granted the demand and Dodd was freed.

After further review of the incident, both generals were reprimanded for handing a propaganda victory to Communist North Korea and suffered career-ending damage to their reputations. Dodd was reduced to the rank of colonel and forced to retire the following year. He died in San Antonio, Texas in 1973. After an appeal for reconsideration of Dodd’s treatment, supported by Van Fleet, the Army officially restored Dodd’s rank to brigadier general in 1977, four years after his death.



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