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The Proof is collated, compiled and edited by the U.S. Army Communications-Electronics Command's G-9/ Strategic Communications Team, the APG Garrison Public Affairs Team, and with the assistance of public affairs offices from tenant commands throughout APG, APG South and Adelphi.



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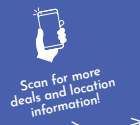
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# APG South: the U.S. Army's premier chemical research and engineering center

by Maya Green  
APG News

Aberdeen Proving Ground is one of the Army's oldest installations; established in 1917 as an answer to the nation's need for defense after the Germans launched their first gas attack on April 22, 1915. What began as a site for testing war munitions transformed into something even greater: a research, development, testing, and evaluation facility for military weapons and equipment. Under the current leadership of APG Senior Commander Maj. Gen. Robert L. Edmonson II and Garrison Commander Col. Philip J. Mundweil, APG provides responsive installation services to the military and those who enable them.

A few miles south of Aberdeen, where the Bush River spills into the Chesapeake Bay, is Edgewood, Maryland; the southern portion of APG. Formerly called Edgewood Arsenal, APG South was established during World War I after the introduction of chemical weapons in Europe. With the appearance of weapons such as mustard agents, phosgene, and chloropicrin, America sought to develop chemical production capabilities. However, chemical weapons were dangerous, had no commercial value, and no use post-war. This deterred commercial manufacturers from producing the chemical agents, leading the war department to construct their own chemical production plant in Edgewood in 1917.

EA was originally called the U.S. Filling Plant, Gunpowder Reservation. The main purpose of the installation was to serve as an integrated production line that accommodated the multi-step process of chemical weapon manufacturing. The base included areas to receive shipments, produce raw materials and chemicals, pack chemicals into shells, and an area to load, store, and ship chemical ordnance.

To complete the post, the Army built living quarters and related support facilities for military personnel working at the arsenal. But due to the danger of the work, only Soldiers were employed at the installation during its early days. At its peak, 7,400 Soldiers worked and lived at Edgewood.

After World War I, EA remained a permanent installation, but at a reduced activity level. A general abhorrence for chemical warfare led to EA studying defensive measures and equipment and preparing



Anamaria Kovalcik, a contractor supporting the Joint Program Executive Office for Chemical, Biological, Radiological, Nuclear Defense, uses the Sensor Network Adaptor to connect a sensor to her laptop. |Gabrielle White, DEVCOM CBC Public Affairs

a modest retaliatory capability, instead of offensive measures.

This led to a change in the nature of EA from an integrated chemical production line to becoming the center for specialized and experimental tasks. EA functioned primarily as the national center for materiel development and testing and medical activities during the Cold War. In 1946, EA was renamed the Army Chemical Center.

On July 1, 1971, EA, the former chemical center and current chemical research and engineering center for the U.S. Army, merged with APG North. From that point on, APG was the common identifier for both the North and the South.

Today at APG South, the Chemical, Biological, Radiological, Nuclear, and medical research communities deliver military readiness and Army modernization through research and development.

## U.S. Army Chemical Materials Activity

The U.S. Army Chemical Materials Activity supports continued compliance with the international chemical weapons treaty, assesses and destroys recovered chemical warfare materiel, and retains expertise for safe and secure chemical weapons storage. Headquartered at APG-South, CMA's workforce includes the Army's leading experts in chemical weapons management, storage, assessment, and destruction in accordance with international treaty requirements.

The Army combined elements from the former U.S. Army Soldier and Biological Chemical Command and Program Manager for Chemical Demilitarization to consolidate the Army's chemical agent, munitions storage, and demilitarization functions under a single organization, the U.S. Army Chemical Materials Agency, a major subordinate command of the U.S. Army Materiel Command, managing storage of nine chemical weapons stockpiles, assessing and destroying recovered chemical warfare materiel and managing the Chemical Stockpile Emergency Preparedness Program in communities around the stockpile sites.

In 1997, the United States entered into the Chemical Weapons Convention, a treaty that bans production, use and stockpiling of chemical weapons. CMA's director serves as the Army Treaty Implementing



U.S. Army Combat Capabilities Development Command Chemical Biological Center research chemist Dr. Terry Henderson loads an autosampler of a Bruker Nuclear Magnetic Resonance to demonstrate one of several analytical capabilities. NMR spectroscopy is one of several analytical techniques used to determine structural information of a chemical or compound, as well as to determine physiochemical properties. |Gabrielle White, DEVCOM CBC Public Affairs

Agent for CWC management and compliance. CMA's Center for Treaty Implementation and Compliance is a vital link between the United States and the Organization for the Prohibition of Chemical Weapons and develops and maintains the arms control treaty and agreement implementation plan to ensure our nation upholds this international commitment.

By 2007 CMA destroyed the nation's former chemical warfare production facilities and binary chemical weapons inventory, and by 2012 destroyed chemical

weapons at seven of the nine U.S. sites, nearly 90 percent of the original declared chemical stockpile. CMA was redesignated to an AMC Separate Reporting Activity and renamed the U.S. Army Chemical Materials Activity.

CMA completed its mission of safely storing the two remaining chemical weapons stockpiles at Pueblo Chemical Depot, Colorado, and Blue Grass Army Depot, Kentucky in 2023. If storage operations are required to posture other nations' stockpiles for destruction in compliance with the CWC, the Army can draw on CMA's extensive expertise regarding assessment, destruction, design of storage facilities and safe handling and accountability processes.

CMA retains expertise for safe, secure storage of recovered chemical warfare materiel pending destruction, with its Recovered Chemical Materiel Directorate leading the nation in development and use of advanced technology to assess and destroy RCWM, the only DOD organization with the equipment and expertise to execute this mission in its entirety – from initial recovery and assessment, through highly detailed project management, to final disposition. This complex mission requires coordination with numerous stakeholders, including other government organizations, state and federal regulatory agencies and the public. Both the Army and CWC require RCWM to be tracked through storage, assessment, and destruction, which CMA executes using the Chemical Accountability Management Information Network, a database that tracks the quantity, location, and destruction status of RCWM, and the CMA National Inventory Control Point, which provides centralized policy and procedures for inventory control.

## **Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense**

After decades of organizational evolution within the Department of Defense, in 1994, Congress passed Public Law 103-160 which shifted responsibility for coordination and integration of the chemical and biological warfare defense program and the chemical and biological medical defense program away from the individual services and consolidated those responsibilities into single office within the Office of the Secretary of Defense.

The law also designated the Army as the executive



Historical lab: Soldiers and civilian employees work in the first chemical laboratory at Edgewood Arsenal that was built in 1918. The building and lab were demolished in the 1960s. |Courtesy photo

agent for the new Chemical and Biological Defense Program. Under the newly formed CDBP, funding and responsibility for program integration was elevated to higher authorities than before, but the individual services executed research, development, and fundamental program management through joint committees.

Following the anthrax attacks in the United States in 2001, there was a renewed focus on protecting against the next chemical or biological attack. In 2003, the DOD further improved the management of chemical and biological countermeasure development by chartering a single, joint office responsible for all activities related to the life-cycle development of these systems. This new office, the Joint Program Executive Office for Chemical and Biological Defense, was formed from the Army's existing program executive office for biological defense and the chemical and biological defense program offices of the Navy, Marine Corps, and Air Force.

In 2017, the JPEO-CBD mission was expanded to include addressing radiological and nuclear threats and was thus renamed the Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense.

JPEO-CBRND manages our nation's investments in chemical, biological, radiological, and nuclear defense equipment. The "Joint" in their title identifies their support for all military services.

The JPEO-CBRND leads, manages, and directs the acquisition, fielding, and sustainment of CBRN sensors, protective equipment, medical countermeasures, specialized equipment for U.S. Special Operations Forces, integrated information management systems, and defense enabling biotechnologies. The organization also works closely with various government agencies that need CBRN defense equipment.

During the pandemic, JPEO-CBRND was a critical enabler of the national COVID-19 response. They supported interagency partners in their response efforts, from helping develop detection, diagnosis, treatment, and vaccines for our warfighters, to tools that increased situational awareness of the coronavirus, all thanks to their team effort with industry and academia. JPEO-CBRND's workforce worked tirelessly to help procure and deliver COVID-19 medical countermeasures for the nation and the Joint Force.

## U.S. Army Medical Research Institute of Chemical Defense

MRICD traces its beginnings to elements of the Army Medical Department responsible for defense against the chemical weapons used during World War I. The earliest laboratories were first under the direction of the Bureau of Mines in 1917 and later under a part of the Gas Defense Service of the Army Medical Department in 1918.

In Oct. 1922, the Medical Research Division was organized at EA to study the pharmacological actions of chemical threat agents, to develop treatments for gassed casualties, and to provide the information obtained to Army Medical Corps personnel. During this period, EA became the DOD center for chemical defense research, development, and testing operations.

During World War II, emphasis on finding methods to prevent and treat chemical casualties increased. This emphasis continued after World War II, when the Soviets seized stocks of German-developed nerve agents and appropriated the technology for their manufacture.

As a result of the 2005 Base Realignment and Closure Act, MRICD became the nation's center of excellence for medical chemical defense. In 2009, ground was

broken for a new 526,000-square-foot replacement facility, which was officially opened in 2015. The new laboratory consolidates the Institute's capabilities into a single facility with state-of-the-art laboratories and technologies, thereby enhancing its research, consultation, and training efforts, which continue to provide Soldiers with the most effective medical protection against chemical threats in history.

The MRICD focuses its research on medical countermeasures for nerve agents, vesicants (e.g., sulfur mustard), metabolic poisons (e.g., cyanide), pulmonary toxicants (e.g., phosgene), toxic industrial chemicals, toxins of biological origin, and pharmaceutical-based agents, as well as on approaches to mitigate the effects of exposure by removing or detoxifying chemical threats. The institute also develops, validates, and implements analytical methods to verify human chemical-threat exposures.

Additionally, MRICD provides training and education to instruct medical professionals, first responders, and operators from federal and non-governmental agencies in the medical management of chemical casualties on the battlefield and in civil disaster events involving weapons of mass destruction. MRICD also provides consultation to military and civilian authorities in the prevention, preparation, response, recovery, and mitigation of disaster response to mass chemical casualties.

## **U.S. Army Combat Capabilities Development Command Chemical Biological Center**

DEVCOM CBC is the United States's principal research and development resource for non-medical chemical and biological defense. Its mission is to provide innovative CBRNE defense capabilities to enable the joint warfighters' dominance on the battlefield and interagency defense of the homeland.

While DEVCOM CBC's name has changed many times over the past century, DEVCOM CBC's science and technology expertise has protected the United States from the threat of chemical weapons since 1917 when President Woodrow Wilson established the site as the location for the first chemical shell filling plant in the United States. Since that time, the Center has expanded its mission to include biological materials. Today it is the nation's premier authority on chemical and biological defense.



The M17A2 Chemical-Biological Field Mask with drinking tube assembly allows Soldiers to drink without unmasking. Soldiers wearing mission-oriented protective posture gear must drink water to prevent heat stress. [Courtesy of Chemical and Biological Defense Command Historical Research and Response Team]

As a critical national asset in the chemical biological defense community, DEVCOM CBC supports all phases of the acquisition life-cycle – from basic and applied research through technology development, engineering design, equipment evaluation, product support, sustainment, field operations and demilitarization – to address its customers' unique requirements.

The Center has more than 1,300 full-time employees. They include chemists, biologists, engineers, and technicians. In addition to its headquarters and main research campus at APG South, DEVCOM CBC has three additional research campuses located at Pine Bluff, Arkansas, Dugway Proving Ground, Utah and Rock Island, Illinois. At APG South, DEVCOM CBC occupies 182 buildings comprising 2,227,598 square feet. The buildings include state-of-the-art laboratories, manufacturing, specialized testing facilities and CBRNE training facilities. The Center also has open test ranges at M-Field.

Under the Chemical Warfare Convention's, DEVCOM CBC is one of only two laboratories in the U.S.



Workers examine the Aberdeen Chemical-Agent Disposal Facility reactors at Edgewood Arsenal. |Courtesy photo

designated by the Organization for the Prohibition of Chemical Weapons to accurately and predictably identify chemical compounds prohibited by the CWC. DEVCOM also possesses a chemical munitions field operations capability. It consists of field-deployable scientists, engineers, technicians, and explosives specialists with chemical/biological agent surety expertise plus unique capabilities for in situ destruction of agents. Finally, DEVCOM CBC develops smoke and obscurants technology, including synthesis, transport and dispersion.

DEVCOM CBC actively initiates agreements with industry to collaborate on applied research, product development and testing. It offers its partner companies the benefits of its intellectual property portfolio, science and engineering expertise, and its one-of-kind chemical biological research and testing infrastructure.

## Executing the mission from APG North, with roots in APG South

The 20th Chemical, Biological, Radiological, Nuclear, Explosives Command exercises mission command over assigned U.S. Army Forces Command Chemical, Biological, Radiological, Nuclear and Explosive Ordnance Disposal forces. On order, the 20th CBRNE Command provides CBRN and EOD forces to Army, joint, interorganizational and multinational headquarters and deploys a Joint Task Force headquarters in support of combatant command requirements.

The command also directs and integrates the missions of two specialized units—the 1st Area Medical Laboratory on APG North and the CBRNE Analytical Remediation Activity on APG South.

Established on Oct. 16, 2004, to consolidate CBRN and EOD units into one multifunctional headquarters, the command was previously stationed on APG South before moving to a new headquarters building on APG North in October 2019.

The 20th CBRNE Command is home to 75 percent of the active-duty CBRN specialists and EOD technicians, as well as the 1st Area Medical Laboratory, CARA, five Weapons of Mass Destruction Coordination Teams and three Nuclear Disablement Teams.

The 20th CBRNE Command has highly trained units stationed on 19 bases in 16 states that take on the world's most dangerous hazards in support of joint, interagency and allied operations.

One such unit is the Chemical, Biological, Radiological, Nuclear, Explosives Analytical and Remediation Activity.

CARA is a 129-person Tables of Distributions and Allowances civilian organization with the mission to recover, transport, conduct emergency response, escort, and remediate chemical warfare material globally with four theater validation expeditionary forensics laboratories and four remediation response teams.

Their missions include supporting the remediation of Formerly Used Defense Sites, conducting Weapons of Mass Destruction characterization and assessment, supporting emergency response overseas and stateside missions for Recovered Chemical Warfare

Material and providing technical escort of surety (any full-strength or diluted chemical agent of which the quantity or concentration exceeds the limits established by the Army) and non-surety chemical material.

CARA brings together a wide variety of occupational specialists, to include chemists and unexploded ordnance technicians, that confront and defeat CBRNE hazards around the world.

Like the 20th CBRNE Command, the Program Executive Office Assembled Chemical Weapons Alternatives was headquartered at APG South but later moved to APG North.



Simeon Sykes, U.S. Army Combat Capabilities Development Command Chemical Biological Center's newest test and evaluation engineer, is supporting the mask fit study and the Joint Program Executive Office for Chemical, Biological, Radiological, Nuclear Defense's wearables program. |Gabrielle White, DEVCOM CBC Public Affairs

The U.S. chemical weapons stockpile served as an important deterrent for more than half a century, but by 1985, with the rise of international concern regarding the effects of chemical warfare, Congress directed the U.S. Army to destroy the stockpile. The Program Manager for Chemical Demilitarization was the organization formed by the Army to carry out this mission.

At the time, the only proven chemical weapons destruction technology was incineration. As plans for the destruction of the stockpile were developed, environmental organizations, community members living near stockpile sites and government regulatory

agencies began discussing other means by which the stockpile might be destroyed.

Following the discussions with the community in 1996, Congress established the Assembled Chemical Weapons Assessment program. Known colloquially as ACWA, the program was mandated under Public Law 104-208 to identify and demonstrate at least two technologies as alternatives to incineration for the destruction of assembled chemical weapons. Assembled chemical weapons refer to munitions containing chemical agents configured with fuses, explosives, and propellants.

Effective Oct. 1, 2012, ACWA was redesignated Program Executive Office, Assembled Chemical Weapons Alternatives and administratively reassigned to the U.S. Army Acquisition Support Center. This transition was directed to raise the program's visibility and obtain necessary support and resources.

PEO ACWA was responsible for the safe and environmentally compliant destruction of the remaining U.S. chemical weapons stockpile, completed July 7, 2023.

PEO ACWA completed destruction of the chemical weapons stockpile at the U.S. Army Pueblo Chemical Depot in June 2023 and at the Blue Grass Army Depot in Kentucky in July 2023. PEO ACWA is now responsible for the closure of the Pueblo and Blue Grass plants.

In early 2020, PEO ACWA transitioned from APG South to Guardian Gateway on APG North. Their contributions were integral to the mission at South.

## Supporting the mission, warfighter

APG South is a formidable chemical, biological, and medical force. The teams working at Edgewood execute missions that directly support and protect Soldiers worldwide.

Both APG North and South work in congruence to research, develop, test, and evaluate top-of-the-line military equipment to allow our Soldiers to have a technological advantage against adversaries.

The tenants housed there give testament to APG's vision and mission capabilities. If a Soldier uses a piece of technology for protection, intelligence, to shoot, to move, or to communicate, chances are it was developed, tested, and fielded by an APG organization.



# PEOPLE FIRST

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**Aberdeen Proving Ground empowers a collaborative team of professionals solving the Army's hardest problems to contribute to the defense of our Nation.**

# Shaping the team on and off the field

by Ryan Rayno  
DEVCOM HQ

"I do believe that kids mimic what they see," Rick Burton, a patent security specialist at U.S. Army Combat Capabilities Development Command, explained. "I always saw my mother and my grandmother doing good, and to me, that was just something that was instilled in me at a young age."

Burton grew up in a family that believed in supporting their community of Walbrook Junction, a neighborhood in West Baltimore, Maryland.

"My mother and grandmother were involved in a lot of church communities inside of Baltimore City, and as they volunteered, they would drag me along with them," Burton said. "My mother would [prepare] food and make meals for people, and my grandmother would work with church funds to help people pay for groceries or bills."

"Sometimes, if someone couldn't make it to the store to get the groceries, they would send me, and here's this six-year-old, walking to the store with a list and picking up groceries," he further explained, laughing.

While embracing the fabric of his family's culture of togetherness, he also embraced the fabric of Maryland's sport culture: lacrosse.

"I started playing lacrosse in 1993 with three of my closest friends at William H. Lemmel Middle School in Baltimore," he said. "I really loved the mental part of the game: everyone's size and shape can be an advantage and disadvantage, so it's like chess in that you have to put the right pieces in the right place in order to win."

Though his playing days may be over today, he is still part of the sport's community through his coaching and volunteering.

Burton is a coach at Edgewood High School, located approximately 30 miles east of Baltimore, organizes lacrosse clinics in conjunction with USA Lacrosse, the governing body of lacrosse in the U.S., and operates Route 40 Lacrosse, an organization that focuses on bringing the game to young people of all backgrounds.

"I use lacrosse as a conduit to reach the kids, not just to grow the sport in communities," he explained. "But to teach them to be good people as well."

Burton believes that the skills needed to be successful in lacrosse directly translate to being successful in life.

"Lacrosse isn't just brute strength. It requires having an awareness of what's going on across the field the



Lacrosse 1: Rick Burton, a patent security specialist for U.S. Army Combat Capabilities Development Command, discusses game strategies with the Edgewood High School lacrosse team March 24, 2023. Burton serves as the team's coach. |Kevin Tanker

entire time," Burton said. "Players need to make quick assessments as they're running down the field and then make even quicker decisions that can affect the game in a positive way. The same thing can happen in life: sometimes you're moving at a fast rate, and you need to make fast decisions that affect you and those around you."

The positive influence that Burton hopes to have on young adults does not end on the lacrosse field. He continually tries to reinforce the importance of smart decisions in the classroom as well.

Burton additionally volunteers his time with two separate school programs that focus on tutoring and mentoring: the Maryland Freestate Challenge Academy at Aberdeen Proving Ground South in Edgewood, Maryland, and the Pathways in Technology Early College High School program at Joppatowne High School in Joppatowne, Maryland.

"At the Challenge Academy, I tutor the students in math and science for an hour, but really, the last 30 minutes we take the time to close the books and talk," Burton

said. "I think they realize that even though I'm in a suit, I'm from a neighborhood that had me in situations that were not too different from theirs, and I'm not going to talk down to them."

The Academy is part of a nationwide network of tuition-free programs that offers at-risk adolescents catered instruction to prepare them to take the GED exam.

"What I try to tell them is that it's all about the decisions and choices that they make," Burton explained. "I want them to understand that when you're emotional and not understanding how that can affect you, you can make a decision that could cost you the rest of your life.

"I make it very clear with them: I come from a part of Baltimore that is pretty bad, and I have nieces and nephews from the same environment. They made mistakes that led them down a path that will be very hard to recover from, if they can at all."

From tutoring school subjects in one classroom to career guidance in another, Burton seemingly does it all.

"When I saw the big picture of what P-TECH was doing to get kids into the IT field, and I saw the program being placed at Joppatowne High School, I knew I had to be a part of it," Burton said.

P-TECH is a public education reform model focused on college attainment and career readiness that enables students to gain academic and professional skills required to either continue their education in a four-year institution, or enter entry-level careers in IT, healthcare, advanced manufacturing, and other fields.

"I think it's brilliant to give students exposure to the IT field now, rather than at college," Burton said. "I think it's brilliant that the program gives students exposure to something that is not available to all of the high schools in Harford County."

As a patent security specialist for DEVCOM, Burton has been able to use his experience and knowledge in the IT field to directly shape that early exposure that his students receive.

"Being a part of the Third-Party Patent Review Program, my team and I analyze submissions routed through the U.S. Patent and Trademark Office and determine if the patent applications under review possess technical capabilities that negatively impact mission effectiveness of any laboratory effort or military intelligence for the U.S. Army," he said. "We analyze their programming applicability, software processes... those sorts of things, and whether these submissions will either help or hurt the U.S. Army's modernization priorities.

"Data analysis, programming, cybersecurity; these are the skills necessary to be successful on our team, and those same skills are what I'm teaching to the students at P-TECH. I also want them to understand that they don't necessarily have to attain a college degree to do this, they can earn certifications within the IT field that will open so many opportunities to be successful without the massive debt."

Aside from teaching the skills necessary to be successful in an IT position, Burton also provides guidance on things that may not always be on the mind of his students.

"We also talk about financial aid," he said. "I wish someone had talked to me about where scholarships are, and what kinds of financial aid could put me in jeopardy.

"Beyond that, we talk about the stressors of balancing education, work, and life at the same time."

While Burton has helped many students and athletes learn from his successes, he has also learned from them.

"What I've learned the most from the kids," Burton explains, "is that everyone communicates differently, everyone learns differently, and everyone processes information differently. So as a leader, I have become much better at communicating with my team in that regard, and I've learned how to be better at building a positive team dynamic and culture.

"Now, the standard is the standard, but how we get to accomplishing our mission will always be different for each member of the team."

According to Charles Ganiel, Burton's supervisor, that positive team culture is easily noticeable.

"[Burton] is such a down-to-earth person and has such a positive outlook on life," Ganiel said. "He definitely lights up the room when he walks in, and everyone knows he is present.

"He mentors many Maryland youth by stressing teamwork, and this philosophy plays an important role in his day-to-day interaction here with his teammates. He is always there to help and offer what he has learned throughout his government and personal experiences when challenging taskings or new requirements are given to the division."

Whether it's coaching with lacrosse, mentorship through the P-TECH, tutoring at Freestate or working at DEVCOM, Burton tries to impact those around him in ways he hopes reach far beyond four end lines or four walls.

"At the end of the day, I want to help people like my mom and grandmother did," Burton said. "I want to be a positive influence at all times."

# Maryland Veterans Caucus holds meeting at 20th CBRNE Command Headquarters



Vet Caucus 1: Command Sgt. Maj. Dave Silva (center), the senior enlisted leader of the 20th Chemical, Biological, Radiological, Nuclear, Explosives Command, speaks at the Maryland Veterans Caucus Meeting at 20th CBRNE Command Headquarters on Aberdeen Proving Ground, Maryland, Nov. 2, 2023. |Mason R. Mason, 20th CBRNE

by **Walter T. Ham IV,**  
20th CBRNE

Members of the largest veterans caucus in the nation met with veterans and military retirees at the headquarters for the U.S. Army's premier Chemical, Biological, Radiological, Nuclear, Explosives Command, Nov. 2, 2023.

The senators, delegates, and staff members from the Maryland House and Senate held the meeting at the 20th CBRNE Command Headquarters a week before Veterans Day.

Members of the caucus visited the headquarters on Aberdeen Proving Ground, Maryland, the nation's oldest continuously operating proving ground.

The Veterans Caucus group from the Maryland State Legislature was led by Maryland Sen. Johnny Salling and Maryland Del. Mike Rogers.

Maj. Gen. Robert L. Edmonson II, the commanding general of the U.S. Army Communications-Electronics Command and the senior commander for Aberdeen Proving Ground, and Command Sgt. Maj. Michael Conaty, the CECOM senior enlisted leader, accompanied the Veteran's Caucus.

Edmonson thanked 20th CBRNE Command for hosting the event.

Col. Gregory P. Hirschey, the deputy commander for the 20th CBRNE Command, and Command Sgt. Maj. Dave Silva, the senior enlisted leader, represented the command at the headquarters.

The 20th CBRNE Command is the only multifunctional command of its kind in the U.S. military. The deployable command is home to 75% of the active-duty U.S. Army's Chemical, Biological, Radiological, Nuclear specialists and Explosive Ordnance Disposal technicians, as well as the 1st Area Medical Laboratory, CBRNE Analytical and Remediation Activity, five Weapons of Mass Destruction Teams, and three Nuclear Disablement Teams.

American Soldiers and U.S. Army civilians from 20th CBRNE Command deploy from 19 bases in 16 states to confront and defeat the world's most dangerous hazards.

Created in 2004, the Maryland Veterans Caucus studies, develops, and promotes legislation to improve quality of life for veterans. The caucus works with the Maryland Department of Veterans Affairs.

The Veteran's Caucus discussed a wide variety of state legislative initiatives designed to help veterans and military retirees in Maryland.

The issues addressed during the meeting ranged from state taxes on military retirement pay to school equivalency standards for students transferring from other states.

"I've learned more today than I ever have before about the veterans' initiatives in Maryland," said Chuck Grady, a Havre de Grace, Maryland, native and retired Army officer who serves as the 20th CBRNE Command Secretary for the General Staff

# Setting the course for future generations: CSM Mildred C. Kelly

By: Maya Green  
APG News

Every February, we recognize the monumental contributions Black Americans have made to our country and history. They have served and sacrificed in every conflict in our nation's history with more than 248 years of honorable service.

African American Soldiers have defended America since the Revolutionary War, spurring a legacy of courage, professionalism, and service.

Command Sgt. Maj. Mildred C. Kelly, former CSM of APG, epitomizes those values.

Kelly enlisted in 1947 into an Army segregated by race and gender. Approximately 1 million Black Americans served in the military during World War II; the mistreatment and racism many experienced upon returning home from war influenced President Harry Truman to desegregate the military in 1948.

Born in 1928 in Chattanooga, Tennessee, Kelly graduated from Knoxville College with a degree in chemistry. She taught high school after college for a year before enlisting.

As a Soldier, Kelly rose through the ranks and made history twice in senior enlisted positions. At the Pentagon, Kelly became the first Black female sergeant major in the Army. Two years later at APG, Kelly was appointed the command sergeant major, making her the first woman to hold the highest enlisted position at a major Army installation with a predominantly male population.

Kelly served in the Army for 26 years before retiring in 1976, but her service did not end there. As a member of the Women in Military Service for America Memorial Foundation, Kelly helped build a museum recognizing women's achievements in military service. The memorial is at the entrance of the Arlington National



Command Sgt. Maj. Mildred C. Kelly, the first female African American sergeant major, command sergeant major and the first female command sergeant major of a major Army installation, with Brig. Gen. Alvin D. Ungerleider, commander of Aberdeen Proving Ground, Maryland, during her retirement ceremony in 1976. |Photo courtesy of Sheila Lewis

Cemetery. It houses memorabilia, artifacts, and photographs documenting the history of women serving in the Armed Forces. Kelly also served on the Maryland Veterans Commission, the Veterans Advisory Board, and the National Association of Black Military Women. She was also a president of Chapter 16 of the Women's Army Corps Veterans' Association.

Kelly died in 2003 and was buried with full military honors in the Arlington National Cemetery.

# Hood promoted to major general during ceremony

by Walter T. Ham IV  
20th CBRNE

The commanding general of the nation's premier Chemical, Biological, Radiological, Nuclear, Explosives Command was promoted to major general during a ceremony on Aberdeen Proving Ground, Maryland, Dec. 14, 2023.

Maj. Gen. Daryl O. Hood, the commanding general of 20th CBRNE Command, pinned on his second star during the widely attended ceremony at the Myer Auditorium.

Gen. Andrew P. Poppas, the commanding general of U.S. Army Forces Command, hosted the ceremony.

Part of FORSCOM, the Aberdeen Proving Ground, Maryland-headquartered 20th CBRNE Command is home to 75% of the active-duty Army's Chemical, Biological, Radiological, Nuclear specialists and Explosive Ordnance Disposal technicians, as well as the 1st Area Medical Laboratory, CBRNE Analytical and Remediation Activity, five Weapons of Mass Destruction Coordination Teams and three Nuclear Disablement Teams.

From 19 bases in 16 states, Soldiers and U.S. Army civilians from the 20th CBRNE Command take on the world's most dangerous hazards in support of joint, interagency, and allied operations.

Hood is the ninth commanding general of the 20th CBRNE Command. Before assuming command in September 2022, Hood served as the deputy director of operations for Team Four at the National Joint Operations Intelligence Center in the Pentagon, where he routinely interacted with Poppas, who served as the director of the Joint Staff at the time.

Poppas said that Hood had proven himself throughout his storied career, from his early days as an enlisted Soldier to commanding the nation's premier CBRNE formation.

"You talk about a storied career. He's been from the tactical to the strategic level," Poppas said. "At



Hood promotion: Maj. Gen. Daryl O. Hood (right), the commanding general for the 20th Chemical, Biological, Radiological, Nuclear, Explosives Command, takes the oath of office after being promoted to major general during a widely-attended ceremony on Aberdeen Proving Ground, Maryland, on Dec. 14, 2023. Gen. Andrew Poppas, the commanding general of the U.S. Army Forces Command, administered the oath. |Marshall R. Mason, 20th CBRNE

every step, he has learned, he has mentored, and he has excelled."

Poppas said that Hood has made every command he served at better while molding future leaders.

"That is the sign of a leader," Poppas said. "That's why we are putting a second star on him right now."

Great Army families make great Army leaders,

Poppas said, adding that Hood epitomized the leadership and character needed in a strategic Army leader.

"It starts well before you put the uniform on," Poppas said. "When you look at the depth of character that General Hood always displays, I will tell you it starts from home."

Hood is a U.S. Army Chemical Corps officer who is originally from Athens and Gainesville, Georgia. He previously served as the 31st chief of Chemical and commandant of the U.S. Army Chemical, Biological, Radiological and Nuclear School on Fort Leonard Wood, Missouri.

A graduate of the University of Georgia, Hood has served in a wide variety of command and staff tours in the United States, Europe, South Korea, the Middle East and Central Asia.

Hood commanded the 3rd Chemical Brigade; 110th Chemical Battalion; and 87th Chemical Company, 4th Squadron (Aviation), 2nd Armored Cavalry Regiment.

Since assuming command of the 20th CBRNE Command, Hood has focused on people, readiness, and modernization.

During the ceremony, Hood thanked his family, friends, and mentors for their support throughout his career.

The U.S. Army's newest two-star general closed his remarks with three questions designed to guide leaders to greater heights.

"What type of leader are you, and what do you want to be? What is your destination and purpose in life?" Hood asked. "What impact do you have on people?"

## Retiring U.S. Army major uses DoD program to transition to civilian risk management position

by **Walter T. Ham IV**  
20th CBRNE

A retiring information operations officer has used the DoD SkillBridge program to transition to an Army civilian risk management position.

Maj. Grant J. Brayley spent six months in the 20th Chemical, Biological, Radiological, Nuclear, Explosives Command Risk Management Office before being selected for a risk management position at the U.S. Army Combat Capabilities Development Command Chemical Biological Center.

The Aberdeen Proving Ground, Maryland-headquartered 20th CBRNE Command, is the U.S. military's premier CBRNE formation.

From 19 bases in 16 states, Soldiers and Army civilians from 20th CBRNE Command take on the world's most dangerous hazards in support of military operations and domestic authorities.

The DoD SkillBridge program is designed to give

service members the opportunity to participate in apprenticeships, internships, and training during the last six months of their military service.

"I wanted to cultivate options for employment after the Army, and I found that safety and occupational health was a good option for me," Brayley said. "The Risk Management Team at 20th CBRNE Command are seasoned, experienced professionals who taught me a great deal about the profession of safety and occupational health. The 20th CBRNE Command was gracious enough to approve my request for the SkillBridge, which I really appreciated."

Brayley added that SkillBridge gave him the time to take valuable courses on Occupational Safety and Health Administration regulations, hazardous materials, ammunition, and explosives, as well as a variety of Army tactical safety courses.

"The 20th CBRNE Command also allowed me to go to the Army Ground Safety Officers course, which I never would have had time to do in my military



Maj. Grant J. Brayley spent six months in the 20th Chemical, Biological, Radiological, Nuclear, Explosives Command Risk Management Office as a part of the DoD SkillBridge program. The DoD SkillBridge program is designed to give service members the opportunity to participate in apprenticeships, internships and training during the last six months of their military service. |Marshall R. Mason, 20th CBRNE

specialty," Brayley said. "This course really set me up for future employment."

A native of Toronto, Ohio, Brayley was previously a certified K-12 music teacher before he decided to join the Army.

Like other band directors, he plays all wind instruments but focused on the saxophone and tuba in college. After 10 years of practice on the piano, he can also play a Beethoven Sonata.

In the Army, he has focused on conducting logistics and information operations.

After being commissioned, Brayley served first as a multifunctional logistician before becoming an information operations officer in 2014.

"I wanted 'more' of what I was doing when I was teaching, which was very rigorous and fulfilling on its own," Brayley, who earned his bachelor's degree in music education and his master's degree in

instrumental conducting from Ohio University, said.

"I wanted more responsibility, more opportunities for advancement, more opportunity to advance my skills in other disciplines, and more travel," Brayley said.

In addition to tours in Germany and South Korea, Brayley has deployed to Bahrain and Iraq.

"I enjoyed working in a variety of different disciplines and with a variety of different people," Brayley said.

"I realized that I could leverage that experience into a profession."

As he hangs up his uniform after 21 years in the U.S. Army, Brayley looks forward to continuing to serve his nation as a U.S. Army civilian.

"I see it as a career change, the same as when I left teaching for the military," he said. "I will leverage every bit of experience and skill I have gained to keep doing jobs that challenge me."



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# First Class of NCB Cohort Visits Aberdeen Proving Ground

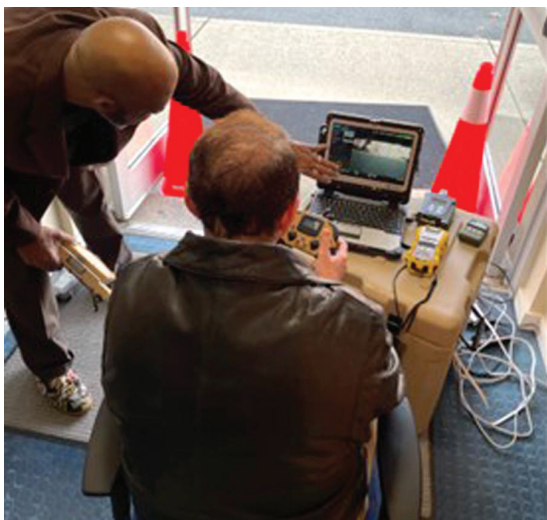
By Kelly Burkhalter  
JPEO-CBRND Public Affairs Office

The origin of the nation's Chemical and Biological Defense Program dates back to the early 20th century and is rooted in Harford County, Maryland. Today, several component organizations of the nation's chemical, biological, radiological, and nuclear defense mission are headquartered at Aberdeen Proving Ground, Maryland, including the Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense.

On Nov. 15, 2023, JPEO-CBRND hosted Civilian employees participating in the Assistant Secretary of Defense for Nuclear, Chemical and Biological Defense's cohort to educate them about APG's significance to the nation's CBRN defense mission and better understand how the JPEO-CBRND fits into the ASD(NCB)'s mission space.

The NCB cohort is a new employee orientation program that aims to build appreciation for the nation's CBRN defense mission, build collaboration across component organizations, and foster leadership within its ranks. The program kicked off with its first class of cohorts in August 2023 and is comprised of 13 CBDP employees, most of whom work at the Pentagon or in the greater Washington, D.C., metro area.

Participants will be educated on the intricacies of the NCB mission, visit the ASD(NCB)'s component organizations and partake in monthly mentor no-host lunches with senior DoD leaders.



The nation's Chemical and Biological Defense Program cohort participant operates a TALON robot outfitted with chemical, biological, radiological and nuclear sensors as a part of their visit to the Joint Program Executive Office for CBRN Defense at Aberdeen Proving Ground, Maryland. Jenn Nicholson, Office of the Assistant Secretary of Defense for Nuclear, Chemical and Biological Defense

During the cohort's visit to APG, JPEO-CBRND demonstrated its CBRN defense capabilities, providing a hands-on opportunity for attendees to interact with CBRN defense equipment. Participants operated a robot outfitted with CBRN sensors designed to perform CBRN reconnaissance and experienced the enhanced warfighter augmented training tool, which uses augmented reality to teach and train warfighters on procedures, processes, and how to troubleshoot issues when operating in a CBRN contested environment. The visit ended with a question-and-answer session with Darryl Colvin, joint program executive officer for CBRND, who met with the cohort to discuss JPEO-CBRND's roles and responsibilities within the CBRN defense community.

"'People First' is our foundation at JPEO-CBRND, so having the opportunity to educate the newest leaders of the chem bio defense community about our mission by providing hands-on experiences with the equipment our joint forces use to fight and win in CBRN denied environments is invaluable," Colvin said. "Adapting to joint force needs, integrating CBRN defense across warfighter functions and joint all-domain operations, delivering on our commitments, unity of command and effort, and pivoting to incremental capability are critical to mission success."

Following engagement with the JPEO-CBRND, the group continued its visit to other APG-based chemical and biological defense organizations, such as the U.S. Army Combat Capabilities Development Command Chemical Biological Center.



Nation's Chemical and Biological Defense Program cohort attendees learn about the Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense mission during their visit to Aberdeen Proving Ground, Maryland on Nov. 15, 2023. Attendees tried some of the latest CBRN defense equipment, such as the enhanced warfighter augmented training tool, which provides augmented reality CBRN training for warfighters. Jenn Nicholson, Office of the Assistant Secretary of Defense for Nuclear, Chemical and Biological Defense

# Maryland National Guard 70th RTI wins prestigious award



NG presentation1: (from left) National Guard Col. Kathleen Smith; National Guard Col. Andrew Collins; Lt. Col (retired) Gary Palmer, president of the Military Officers Association of America Maryland Council of Chapters; National Guard Lt. Col. Juan Bryant; National Guard Command Sgt. Maj. Michael Morehouse, battalion command sergeant major; and National Guard Col. (retired) Andy Fallon pose with a trophy after the 70th Regional Training Institute won the award for Maryland National Guard Unit of the Year for 2022 at APG South's Stark recreation Center Dec. 2, 2023. |National Guard Cpt. Devlon Anderson, 70th Regional Training Institute

## by APG News

The Maryland National Guard Unit of the Year Award for 2022 was presented to the 70th Regional Training Institute for their tremendous work training Soldiers from the Army National Guard in a ceremony at the APG South (Edgewood) Stark Recreation Center Dec. 2, 2023.

The 70th RTI trains reservists and active duty National Guard members from the entire nation. They provide a range of training, including basic combat training, that will prepare individuals for the challenges of being a National Guardsman.

"This is the 28th year the Maryland chapter of the Military Officers Association of America has presented this award," Army Col. (Retired) Andy Fallon, president of the MOAA Annapolis chapter,

said. "Each unit we have recognized has made significant contributions to the national defense of our country. The 70th RTI has performed remarkably and has served our nation and its citizens with excellence and pride."

The nomination came from Maryland National Guard Adjutant General Maj. Gen. Janeen Birkhead and Assistant Adjutant General Col. Andrew Collins.

The Maryland MOAA council is composed of 10 chapters throughout the state, representing 11,000 members in Maryland. Although composed of officers, MOAA advocates for the earned benefits of all military personnel and their families who currently serve and who have served. Each chapter provides camaraderie, community support, and advocacy in the counties where they are chartered.

# Premier CBRNE command headquarters company welcomes new commander

By Walter T. Ham IV  
20th CBRNE

The Headquarters and Headquarters Company for the U.S. Army's premier Chemical, Biological, Radiological, Nuclear, Explosives command welcomed a new commander during a change of command ceremony, Nov. 3, 2023.

Capt. Ali S. Salman assumed command of the 20th CBRNE Command Headquarters and Headquarters Company from Capt. Charles "Taylor" Novinger during the ceremony on Aberdeen Proving Ground, Maryland.

Salman reported to the command following the Military Intelligence Captains Career Course.

An Army logistics officer from Cedartown, Georgia, Novinger will become the Secretary of the General Staff for 20th CBRNE Command following his command tour.

Col. Gregory P. Hirschey, the deputy commander of the 20th CBRNE Command, hosted the ceremony, and Brig. Gen. Daryl O. Hood, the commanding general of the 20th CBRNE Command, attended the ceremony.

Following a time-honored change of command tradition, 1st Sgt. Zachery P. Jones, the HHC senior enlisted leader, passed the command flag between the outgoing and incoming commanders.

Hirschey congratulated Novinger for a successful command tour.

The deputy commander added that Novinger deployed to South Korea for Exercise Freedom Shield 2023 and helped numerous 20th CBRNE Command units to prepare for deployments.

"Over the past 24 months, Taylor has expertly commanded the HHC to accomplish great feats," Hirschey said, a senior Explosive Ordnance Disposal officer from East Helena, Montana. "I want to thank you for your leadership, compassion, and commitment to the Soldiers and the officers at the HHC."

Hirschey welcomed Salman to the important company that supports the U.S. Department of Defense's premier deployable and multifunctional CBRNE formation.

"Ali brings the right skills to the company at the right time," Hirschey said. "As HHC has risen to new heights under Taylor's leadership, it is now time for Ali to take HHC to a new level."

Headquartered on Aberdeen Proving Ground, Maryland, the 20th CBRNE Command is home to 75% of the active duty U.S. Army's Explosive Ordnance



Change of Command 1: Col. Gregory P. Hirschey, the deputy commander of the 20th Chemical, Biological, Radiological, Nuclear, Explosives Command, passes the colors to Capt. Ali S. Salman at his change of command ceremony on Aberdeen Proving Ground, Maryland, Nov. 3, 2023. Salman assumed command of the 20th CBRNE Command Headquarters and Headquarters Company from Capt. Charles "Taylor" Novinger during the ceremony. |Marshall R. Mason, 20th CBRNE

Disposal technicians and Chemical, Biological, Radiological, Nuclear specialists, as well as the 1st Area Medical Laboratory, CBRNE Analytical and Remediation Activity, five Weapons of Mass Destruction Coordination Teams and three Nuclear Disablement Teams.

From 19 bases in 16 states, Soldiers and Army Civilians from 20th CBRNE Command deploy to confront and defeat the world's most dangerous hazards in support of military operations and domestic authorities.

Novinger said it was an honor to serve as the 20th CBRNE Command HHC commander.

"This headquarters company has continued to lead the way in readiness," Novinger said. "This is because of the Soldiers, the staff, and the civilians at the 20th CBRNE Command Headquarters and Headquarters Company."

Salman said he welcomed the opportunity to command the unique U.S. Army HHC company at the one-of-a-kind command.

"I cannot tell you what an honor it is to be standing here today," Salman said. "It is truly a special privilege."



# CONNECTED

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Aberdeen Proving Ground is home to generations of scientists, engineers, and technologists deeply rooted in the unique community energy of Northeast Maryland.

# APG visits Aberdeen High School to talk career growth, job opportunities



Elana Messner, left, a master planner with the U.S. Army Combat Capabilities Development Command Chemical Biological Center, and Priscilla Lee, right, a biologist with DEVCOM CBC, talk to Aberdeen High School students about upcoming projects in their command during a speaking engagement at the school Nov. 7, 2023. |Megan Clark, CECOM Public Affairs

**By Megan Clark**  
**CECOM Public Affairs**

Four civilian employees from APG visited Aberdeen High School to speak with Advancement Via Individual Determination program students about their career paths Nov. 7, 2023.

The students were encouraged to ask questions about an array of topics, such as the speakers' job, day-to-day requirements, and education. Speakers were invited to share the nearly unlimited opportunities available for working for the Army as a civilian.

The speakers were Priscilla Lee, a biologist with the U.S. Army Combat Capabilities Development Command Chemical Biological Center; Elana Messner, a master planner with DEVCOM CBC; Wayne Strine, chief of the combat vehicles division at the U.S. Army Aberdeen Test Center; and Michael Livezey, assistant fire chief for APG Fire and Emergency Services.

The speakers were separated into classrooms with small groups of 20 students each. Strine talked with

his group about different branches of engineering and how they all have to work together to protect the warfighter. He said an engineer's job is to figure out how to keep people safe but still do their jobs effectively.

"If you're happy with your work, that's what matters most," Strine said.

Messner and Lee spoke about some of the projects they've been able to work on. Lee said there are lots of options within the Army beyond being a Soldier.

## About AVID

**AVID is a non-profit organization that provides professional learning for educators to close opportunity gaps and improve college and career readiness for middle and high school students, especially those traditionally underrepresented in higher education. When schools partner with AVID, they receive professional development, resources, and support to ensure lasting impacts on students.**

"Trying something new is never a waste," Messner encouraged.

The students had a lot of questions for Livezey, primarily about what his daily routine looks like.

"I always try to get a good night's sleep," he said. He added he usually works 24-hour shifts. "If you get in at 8 a.m., you don't leave until 8 a.m. the next day." He emphasized how important it is to keep his

mornings slow and stress free so he's prepared for anything that might come later.

Lorraine Nau, the AVID site coordinator at AHS, said the AVID team at AHS enjoyed partnering with APG this year.

"The opportunity knowledge our students gained by listening to various professionals empowers them to better plan and prepare for college life," Nau said.

## Freestate celebrates achievements of Class #61 Aberdeen Proving Ground

by Rachel Ponder  
APG News

Maryland National Guard Freestate ChalleNGe Academy cadets in Class #61 celebrated completing the rigorous 22-week residential phase during a ceremony in front of family, staff members, mentors, and local leadership in the Havre de Grace Middle/High School auditorium Dec. 16, 2023.

During the residential phase, Maryland teens, ages 16-18, learn self-discipline and obtain the skills needed to become responsible, productive citizens in a military-style environment. Volunteers mentor the cadets and provide learning opportunities, like job shadowing experiences. During the year-long post-residential phase, mentors continue providing cadets with a support system as they seek employment, attend college, or join the military.

FCA Director Michael Buffum welcomed attendees and thanked the leaders and volunteers who contributed to the program's success.

As a new director, Buffum said it had been an honor to learn more about the cadets and observe their determination and dedication. He congratulated the 69 cadets who completed the residential program.

"Every obstacle, anything that has been in front of you, you have gotten past," he said.

Adjutant General of Maryland Maj. Gen. Janeen L. Birkhead said the cadets made the conscious

decision to come to the ChalleNGe program to take control of their future. She said she respects their commitment to the program and their strength.

"Resilience is a dynamic force that empowers you to face the change and face adversity, and face setbacks, frankly," she said. "Your resilience is a reason you have persevered and will be on the path to success, undaunted by whatever stands in your way."

The guest speaker, Anthony Woods, Maryland Secretary of Veterans Affairs, said that as a young man, he decided to have a better life, so he committed himself to his education and was accepted into the U.S. Military Academy at West Point. Later, the military afforded him the opportunity to attend Harvard University and the University of Maryland.

"I hope that you would consider service," Woods told the cadets. "You have proven, by graduating [from Freestate] that you have everything it takes to put on the uniform of this nation and succeed. I hope that you consider that, military service has changed my life fundamentally."

Today, Woods serves in the U.S. Army Reserve and holds the rank of major, assigned to the Joint Staff at the Pentagon.

Woods said besides military service, cadets can give back to their community and country in many ways. For example, this fall, Maryland Governor Wes Moore launched the Service Year Option. Young adults participating in this program gain skills



Maryland National Guard Freestate ChalleNGe Academy cadets applaud after receiving their course completion certificates at a graduation ceremony hosted at Havre de Grace Middle/High School Dec. 16, 2023. |Rachel Ponder, APG News

through a service placement aligned with their interests and work with support coaches to develop their post-service plans.

"Continue to seek opportunities exactly like the one you just passed," he said. "Choose the things that are a little more difficult, that will make you a little more uncomfortable, but are ultimately going to make you stronger for stepping out and giving it a try."

The ceremony also included a presentation of awards, class speakers, and a presentation of course completion certificates.

After the ceremony, cadets returned their uniforms, received their GED test results, said goodbye to staff members, and greeted their families.

"I honestly feel great completing this course. I thought I wasn't going to make it, but here I am,"

said Cadet Athzyri Merino Hernandez, who is thinking about going to college and joining the Army. "I am going to keep improving even more."

Freestate ChalleNGe Academy Foundation President Mary Jane Jernigan, who also serves as a Civilian Aide to the Secretary of the Army, said she always feels emotional watching the completion ceremony. She said when she hears how the cadets overcame personal challenges, she feels inspired.

"They have grit," she said.

This year marks the 30th anniversary of the National Guard Youth ChalleNGe Foundation. Freestate ChalleNGe Academy, now located on APG South (Edgewood), was one of the 10 original states to begin a ChalleNGe Program. For more information, visit <https://freestatemil.maryland.gov/>. To learn more about the Service Year Option, visit [dsci.maryland.gov](https://dsci.maryland.gov).

# APG community gives back to Soldiers



Tim Smuda, with the U.S. Army Communications-Electronics Command's Software Engineering Center, squeezes a stress ball to increase blood circulation during a blood drive hosted by the Armed Services Blood Program at the APG North (Aberdeen) recreation center Dec. 4, 2023. |Rachel Ponder, APG News

**By Rachel Ponder**  
APG News

Members of the APG community gave the gift of a blood donation by participating in the 13th annual Army-Navy Blood Donor Challenge, hosted by the Armed Services Blood Program National Capital Region at the APG North (Aberdeen) recreation center Dec. 4, 2023.

The ASBP is the official blood program of the U.S. military. The program collects, tests, stores, transports, and distributes blood products to military locations worldwide.

Shawntel Trowell, a public affairs specialist and blood donor recruiter for the ASBP, said the blood drive resulted in 40 usable units of blood.

Trowell said spreading the word about the critical need for blood donations is essential. Especially during the holiday season and winter months, when donations are typically lower.

"Blood cannot be reproduced, and it has a 30-to-45-day shelf life," Trowell explained. "During the holiday season, it's hard because people are shopping, spending time with family, and traveling. So, giving blood is in the back of their minds."

Trowell said donating blood through ASBP is a way to support Soldiers. According to the ASBP website, a blood donation, whether in the form of whole blood, platelets, or plasma, is considered a treatment,

somewhat like medicine in the medical field.

"[A blood donation] helps the burn victim heal tissue, the cancer patient combat diseased cells, and the trauma victim stay alive," the ASBP website states.

Navy HM2 Erwis Marte, a Walter Reed National Military Medical Center laboratory technician, said APG has a dedicated donor base.

"Especially with all the conflict going on in the world now, we definitely want to make sure the DoD has enough products throughout the armed services in case any of these engagements do ramp up," he added.

Blood donor Kimber Todd, an Army veteran and a civilian with the U.S. Army Communications-Electronics Command, said she was a blood recipient several years ago after a traumatic accident. She calls a blood donation "the gift of life."

"I always gave [blood]," she said. "But now I especially realize the importance of it. It really hit me that I could have died if I didn't have that blood."

Randy Kowalczyk, a contractor with the U.S. Army Program Executive Office Command, Control and Communications-Tactical, said he gives blood whenever he is eligible. He donates to the ASBP because it is convenient, and he knows his donation will support the troops.

According to ASBP, donors must wait eight weeks or 52 days between donations. Marte said giving blood typically takes about 30 to 45 minutes. Appointments are suggested, but walk-ins are welcome.

"I think it is important to give, especially during these times," Kowalczyk said. "The more the merrier, I know it will get used."

After giving blood, participants indicated whether they were rooting for Army or Navy in the lead up to the Army-Navy Game at Gillette Stadium in Foxborough, Massachusetts on Dec. 9, 2023. To show appreciation to the donors, ASBP gave a commemorative Army-Navy Blood Drive shirt and snacks to those who participated.

"The Army had a three-year winning streak, but this year, Navy won by five votes, out of over 700 donors that presented to donate blood and vote for their team," Trowell said.

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# ATEC hosts multi-domain operations test demonstration



Distributed Test Control Centers are essential to performing live, virtual, and constructive testing across ATEC's nationwide test sites. Pictured is the U.S. Army Aberdeen Test Center's DTCC which, in conjunction with U.S. Army Redstone Test Center's DTCC, was used to demonstrate ATEC's Multi-Domain Initial Operating Capability on Oct. 19, 2023. Multi-Domain testing is essential to achieving Army modernization goals and enabling our warfighters for success in the Multi-Domain Environment. |Steve Lowther

by Lindsey Grubb  
ATEC Public Affairs

The U.S. Army Test and Evaluation Command executed its first Multi-Domain Operations Distributed Live, Virtual, Constructive Initial Operational Capability Demonstration across ATEC's geographically diverse sites on Oct. 19, 2023.

This demonstration was the culmination of an ATEC enterprise modernization project, comprised of eight ATEC subordinate organizations on a distributed network, to establish an MDO scale distributed LVC test environment.

"The key focus of this event was to tie the ATEC subordinate organizations across the country on a distributed test network," said Dr. Ken LeSueur, lead technical coordinator of the event supporting the U.S. Army Redstone Test Center. "We wanted to exercise a mixture of live, virtual, and constructive elements operating on an MDO scale test scenario across that environment, collect data in that environment, and push toward real-time visualization and analysis of that data."

The event executed seven MDO land, air, space, and cyberspace scenarios that consisted of more than 60 live military systems, virtual assets, and constructive simulations. Transformative data collection, real-time display, and cloud-based data analytics on the representative tactical and simulated systems were executed in the event.

Mason Rowe, who served as the data collection, reduction, analysis, and visualization lead for the event with the U.S. Army Evaluation Center, provided insight on the importance of near real-time analytics. "The significance of what we demonstrated today with our near real-time data analytics is proving that by embedding analysts and evaluators into the test itself, we can provide in-stride, data-driven insights using data dashboards and visualizations throughout test execution," he said. "Rather than waiting weeks after a test to have analysis-ready datasets on hand, we were able to shorten the data collection-reduction-analysis timeline to less than 60 seconds using automated, cloud-based processes."

"This is beneficial for everyone," said Rowe. "The

testers will know what's going on during the test, allowing gaps to be identified so they can be immediately addressed rather than needing to schedule a follow-up test. The system owners will know what's going on with their system allowing deep dives into the data to troubleshoot any errors or problems that can be fixed on the spot. Leadership will be provided with up-to-date insights and the health status of how a test is running through ongoing assessment of the data that was collected ... 'Is it the right data, does it answer your learning demands that you have for this test and is it going to be worthy for use in evaluation after the fact?'"

Paul Weimer, division chief for the Cyber and Electromagnetic Effects Division with ATC, explained that given where the Army is headed with MDO, the only way to get there is by learning how systems interoperate at scale, and that capability was highlighted in this demonstration.

"This occurred in an environment where you've got live systems interacting with virtual systems cooperatively at scale," he said "Innovative networks, constructive simulations, and a talented workforce made that possible. If you embrace and invest in modeling and simulation early in the acquisition process, it will pay dividends throughout the life cycle of a system."

"This exercise brought a lot of firsts for ATEC. Even though the concept of doing distributed testing isn't new, it really hasn't been done at the scale and complexity that we touched on today," Weimer continued. "This is a significant step in the right direction, but we are not at the end goal. We were able to show the test and evaluation community what is in the realm of possible, but this effort also helped us identify our strengths, weaknesses, and gaps so we can take the right steps to achieve full operational capability to support the Army experimentation and testing."

Although all the ATEC subordinate organizations were involved in the demonstration, ATC and RTC were the backbone behind this effort. According to LeSueur, RTC has had an extensive history of LVC distributed testing, and ATC has the chamber, resources, and infrastructure.

"Each organization was essential in bringing this to-

gether," he stated. "I think we moved all ATEC up a significant notch by being able to perform this type of testing and methodology. We accomplished a lot of training across the command doing this."

The Test Resource Management Center's Joint Mission Environment Test Capability Multiple Independent Levels of Security Network served as the foundation for the demonstration. It was managed and supported by TRMC's National Cyber Range Complex, and the network was tailored for this event.

"From project initiation through execution, TRMC's NCRC project planners and network designers worked closely with ATEC to establish new network nodes at several ATEC sites as well as configure, test and tune the network for the application," said Weimer.

James Amato, ATEC's executive technical director/deputy to the commander, stated that leveraging TRMC's capabilities will enable us to link our capability with other services and allies so we can test like we fight, as a joint and combined force.

ATEC Commanding General, Maj. Gen. James J. Gallivan, concluded the demonstration by stating, "this capability gives the Army an environment to support distributed user involved developmental and operational system-of-systems experimentation and testing at scale."

The MDO Distributed LVC IOC falls under the digital transformation line of effort within the ATEC Next Campaign Plan, with an end goal to have systems and processes in place to perpetually modernize the people, equipment, and infrastructure to remain trusted by senior leaders for decisions.

ATEC's Chief Data Officer Brian Kelly, said that ATEC is leading test and evaluation for the Army through an enterprise-wide digital transformation that leverages a hybrid cloud environment to develop a data mesh. The ATEC data mesh leverages various Army enterprise cloud services to expose and control access to data for DoD and its partners.

"ATEC's digital transformation is well underway and will serve as a shining example of an Army Business Mission Area organization meeting the intent of HQDA CIO and G6 data and cloud strategies," Kelly said.

# 20th CBRNE Command hosts ROK CBRN Defense Command at headquarters



American and South Korean military leaders forged even stronger bonds during the 70th anniversary of the Republic of Korea-U.S. Alliance, Nov. 1, 2023. The U.S. Army's 20th Chemical, Biological, Radiological, Nuclear, Explosives Command hosted Exercise Liberty Shield with the Republic of Korea CBRN Defense Command. |Angel D. Martinez-Navedo, 20th CBRNE

By Walter T. Ham IV  
20th CBRNE

American and South Korean military leaders forged even stronger bonds during the 70th anniversary of the Republic of Korea-U.S. Alliance, Nov. 1, 2023.

The U.S. Army's 20th Chemical, Biological, Radiological, Nuclear, Explosives Command hosted a tabletop exercise with the Republic of Korea Chemical, Biological, Radiological, Nuclear Defense Command.

The exercise, called Liberty Shield, was held at the 20th CBRNE Command Headquarters on Aberdeen Proving Ground, Maryland. The exercise has been held annually for years, including virtually during the COVID-19 pandemic.

The 20th CBRNE Command is home to 75% of the active-duty CBRN specialists and Explosive Ordnance Disposal technicians, as well as the 1st Area Medical Laboratory, CBRNE Analytical and Remediation Activity, five Weapons of Mass Destruction Teams, and three Nuclear Disablement Teams.

Supporting military operations and domestic authorities, American Soldiers and Army Civilians from 20th CBRNE Command deploy from 19 bases in 16 states to confront and defeat the

world's most dangerous hazards.

Established in 2002, the ROK CBRN Defense Command incorporates personnel from all branches of the South Korean Armed Forces.

Units and personnel from the 20th CBRNE Command and the ROK CBRN Defense Command routinely train together in both the U.S. and South Korea. Among recent events, the ROK CBRN Defense Command hosted the 1st Area Medical Laboratory, and members of the 20th CBRNE Command's Nuclear Disablement Teams trained with their ROK Nuclear Characterization Team counterparts to improve interoperability.

From annual peninsula-wide exercises in South Korea to field training exercises at the National Training Center on Fort Irwin, California, the 20th CBRNE Command and ROK CBRN Defense Command have forged an enduring partnership, much like the alliance they support.

U.S. Army Brig. Gen. Daryl O. Hood, the commanding general for 20th CBRNE Command, met with his counterpart, ROK Army Brig. Gen. Jaehoon Yoo, the commanding general of the ROK CBRN Defense Command, on Nov. 1, 2023.

Yoo said the relationship between the two highly

specialized commands exemplified the fighting spirit of the alliance.

The commanding general of the 20th CBRNE Command emphasized the importance of the annual meeting to the ironclad alliance that celebrated its 70th anniversary in October.

Hood said the 20th CBRNE Command was looking forward to building even stronger bonds in the coming year.

The ROK-U.S. Alliance was officially established by the Mutual Defense Treaty that was signed on Oct. 1, 1953.

The ROK-U.S. Alliance has provided the security on the Korean Peninsula and stability in North-east Asia that enabled the meteoric rise of South Korea from the ashes of war to become one of the world's leading economic and cultural powers.

## PM Aircraft Survivability Equipment engrained throughout Redstone Community

by Allison Weissert  
PEO IEW&S Public Affairs

Today the Army faces an ever-evolving threat that requires holistic approaches in designing, developing, and building solutions to outpace our enemies. Aircraft survivability is a key capability whose entire function is to protect Soldiers' lives by maintaining superiority against emerging threats.

One such threat is Man-Portable Air Defense Systems. These surface-to-air missiles can be fired by an individual or a small team of people against aircraft. These weapon systems often are described as shoulder-fired anti-aircraft missiles. To defeat this missile threat, Project Manager Aircraft Survivability Equipment, located in Huntsville, Alabama, is an integral part of the Program Executive Office Intelligence, Electronic Warfare & Sensors organization. Their mission is to develop and field warning and countermeasure capabilities to defeat MANPADS, thus increasing aircraft survivability and saving crew and passenger lives.

This is just one example of the threats which PM ASE provides a solution. The Project Office develops and fields an array of electronic devices, systems, and countermeasures designed to reduce an aircraft's susceptibility and vulnerability to manufactured threats by detecting, alerting, and mitigating those threats. Their portfolio includes four Product Offices: Infrared Countermeasures, Missile Warning

Systems, Threat Warning Systems, and Common Systems Integration that manage survivability systems in various stages of development, integration, production, fielding, and sustainment. Each of the capabilities contributes to the holistic aircraft survivability suite designed for each unique category of aviation. To accomplish this, PM ASE works closely with the Redstone Arsenal community throughout the lifecycle of all their survivability equipment.

Col. Brock Zimmerman, project manager for PM ASE, described the relationship with Redstone Arsenal, stating, "Our relationship with Redstone Arsenal's leadership and support organizations is exceptional. PM ASE is not a tenant organization, but we work closely with Army Aviation and Missile Command, PEO Aviation, U.S. Army Combat Capabilities Development Command Aviation and Missile Center, Missile and Space Intelligence Center, and Redstone Test Center. In fact, our ASE Team has many direct support matrix personnel from the AvMC community that provide a wealth of technical expertise and leadership. We are very grateful for the Arsenal's continued support and partnership which enables the development and fielding of world class aircraft survivability equipment."

The Program Executive Office Aviation, which is located at Redstone Arsenal, is the primary customer for PM ASE. PM ASE supports their aircraft



Participants at a Project Manager Aircraft Survivability Equipment orientation, held and supported by the Redstone Test Center at Redstone Arsenal, Alabama, pose for a photo in front of a UH-60 Black Hawk Sept. 12, 2023. |Courtesy photo

platforms such as: the CH-47 Chinook, AH-64 Apache, UC-35 Cessna Citation, C-12 Guardrail, C-12 Huron, and UH-60/HH-60 Black Hawk.

This support and integration involves daily routine coordination. At a strategic level, PM ASE participates in the Aviation Enterprise's planning sessions. PM ASE relies on the PEO AVN's expertise on general aviation information and interaction within the Aviation Enterprise. The organization maintains a close working relationship with the Intelligence and Aviation communities especially at Redstone Arsenal to ensure that ASE systems continue to defend against today's threats and are positioned to counter the emerging threats of tomorrow.

A recent example of this complementary relationship is PM ASE's fielding of the Common Infrared Countermeasure capability on PEO AVN's platforms. CIRCМ is the next generation lightweight, laser-based infrared countermeasure system that interfaces with both the Army's Common Missile Warning System and future Missile Warning Systems to defeat current and emerging missile threats that target rotary-wing, tilt-rotor, and small fixed-wing aircraft across the DoD.

CIRCМ receives a hand-off from the MWS and employs a pointing and tracking system to track and defeat the incoming missiles.

"PEO IEW&S is very passionate about supporting and protecting Army personnel and aircraft.

They integrated the CIRCМ system which has proven to be very effective," Greg Jinks, acting deputy project manager, Apache, PEO AVN, said. "The CIRCМ system protects the aircrew and is a huge survivability piece that gives comfort and confidence to aircrews and commanders. The Apache PM remains very appreciative of the strong collaborations between our teams while working through the tough issues."

Another example of Redstone Arsenal's support is the valuable work the RTC does for PM ASE. RTC provides expeditionary field test support for missile testing and flight test excursion. They also lead the technical development of government owned data recorders for integration with industry hardware that support independent Government analysis of ASE system performance.

The RTC Aviation Flight Test Directorate supports ASE by providing highly capable flight test engineers and safety review boards that support our safety release requests for Soldier touchpoints and operational testing as well as providing the recommendation for safety confirmation to the Army Evaluation Center, which is required to support the development of fielding documentation for aviation mission systems. Having the PM ASE Test office close to RTC creates synergy of effort, routinely decreases test schedules, and allows the PM to realize significant cost savings.

All of the efforts from RTC and the greater Redstone

Arsenal community are vital to current systems and development of systems for future aircraft.

"The long-term goal remains providing support to the Future Vertical Lift platforms while maintaining state-of-the-art protection for the legacy fleet," Zimmerman said.

The FVL concept is to create a new rotorcraft that uses new technology, materials, and designs that are quicker, have longer range and higher payload

capacity, are more reliable, easier to maintain and operate, have lower operating costs, and can reduce logistical footprints. FVL will create a family of systems to replace most existing Army helicopters. Five different sizes of aircraft are to be developed, sharing common hardware such as sensors, avionics, engines, and countermeasures.

The continued partnership between Redstone Arsenal and PM ASE remains critical in the development of new capabilities.

## PEO IEW&S LNOs: eyes and ears to the forefront demonstration

By Megan Paice  
PEO IEW&S Public Affairs

When Soldiers are deployed, they don't always know who to turn to if their equipment needs repair or if it just isn't worth the rucksack real estate. Soldiers send maintenance reports if something major happens, but those reports leave other questions unknown. Is the equipment performing to expectations? What improvements would be beneficial? Are Soldiers using it, and if not, why? The feedback loop wasn't closing. The proposed solution only had one full-time staff member and a couple of interns. The solution became what is now known as the Program Executive Office's Integration Directorate customer outreach program, which uses several operational analysts designated as Liaison Officers to close the feedback loop from operational units. Previously, project managers within Program Executive Office Intelligence, Electronic Warfare & Sensors may not receive critical feedback until it was too late to act on, to shape, or redirect the development of a program. Paul Terzulli, deputy director for the PEO IEW&S Integration Directorate, is the first-line lead for



Program Executive Office Intelligence, Electronic Warfare & Sensors Integration Directorate. |Courtesy graphic

the liaison program and day-to-day operations. He works closely with the LNOs and understands why they are critical to the Soldier. "LNOs are critical to the success of the PEO IEW&S's mission and the Army warfighting functions that we support because they enable tighter and more impactful collaboration with the operational Army," Terzulli said. "They deliver rapid and ongoing awareness of current and

emerging needs of the units and Soldiers we directly support. Through the LNO program, we can collect actionable information and develop partnerships directly with the operational Army units that we have the mission to equip."

Bill Reagan, XVIII Airborne Corps and special operations forces LNO explains that while the LNOs are closing the feedback loop, there are still challenges that need to be tackled. First, many Soldiers don't know about or what the PEO does, so this can lead to confusion. Instead of being viewed as a liaison, at times, LNOs are seen as vendors only trying to sell a product.

"It takes a little bit to build that relationship, but then, once they know what we can leverage to help them, they are inevitably super cooperative and provide us a great insight into not only the organization but the technology as well," Reagan said.

Gualberto "Tato" Marrero is another LNO who supports I Corps and the U.S. Army Pacific at Fort Shafter, Hawaii. He has also covered Alaska and the 11th Airborne Division and other operational units there. More recently, Marrero has been the "touch point" for the U.S. Army Training and Doctrine Command Centers of Excellences, specifically the LNO stationed at Fort Huachuca, Arizona, with the Intelligence CoE and Fires CoE at Fort Sill, Oklahoma. Much of his day-to-day consists of meetings via Army 365; however, he often travels and observes different Soldier touchpoints and military experimentations and exercises to gain feedback.

Marrero started in the PEO IEW&S Fellowship Program as a Soldier assigned to the program when Reagan reached out mid-2020 to see if he would be interested in helping build this team. A total of four worked in the LNO Integration Directorate. Three fellows (retiring Soldiers) have since transitioned as permanent team members after their 6+ months internship. Other teammates include Donald "Ray" Porter III

CORPS Fort Cavazos, Texas (formerly known as Fort Hood), and Russ Nadler V CORPS, Germany. Two additional LNOs work with the Directorate but not directly on the team: Mr. James Hust, Intelligence CoE at Fort Huachuca, Arizona, and Julia Ruck, Cyber CoE, Fort Eisenhower, Georgia (formerly Fort Gordon).

"I really think [Marrero is] the exemplar. Not only because of his military intelligence expertise, his experience in uniform speaks volumes to this organization," Reagan said. "When he was in uniform, he didn't know that this PEO existed." "What I tell most of the people I deal with is when you see me coming through the door, unlike a vendor, I'm not trying to sell you a capability. You could do whatever you want to do for experimentation, but when I show up, I bring you a program of record, and the Army is telling you this is going to be your piece of equipment, whether you like it or not. Our selling point to them is, 'if you want a say on how that piece of equipment is used or how it's being developed, you want to send your best and brightest to the Soldier touchpoints because only then can we make those changes necessary to fit what you guys need."

Reagan also has a different perspective on what questions to ask or what outside elements could impact how the equipment works. For example, one weapon may work well in a warmer climate, but not well in freezing climate, so he has learned that there is some tailoring that comes with each unit and which units should be engaged.

"After 20 years of being a military intelligence officer, the most frustrating thing is getting a brand new piece of equipment, but it has the exact same issues I had with my old piece of equipment. Eventually, we stop implementing the new stuff and write it off," he said.

The LNOs are seen as a game-changer for PEO IEW&S in equipping modernization missions for

Army 2030 by enabling programs across the PEO to move faster, identify risks and mitigations sooner and more rapidly adapt to the needs of the force. This is also a critical component to rapid acquisition, to include rapid prototyping and rapid fielding. Without this critical collaboration enabled through the LNOs, programs are not able to achieve the velocity needed to achieve the modernization goals of Army 2030.

In the future, the team envisions that they will leverage technology to further increase

the impact of the LNO program. They are implementing Customer Relationship Management (CRM) technologies now so they can begin the process of automating and digitizing the manual field collection processes currently in place. Once the process has been fully digitized, the LNO team will be able to move and enable system development at an even faster pace, further enabling the PEO to meet the needs of the Army in both delivering the Army of 2030 and designing the Army of 2040.

## PM Defensive Cyber Operations adds to PEO IEW&S MDO Solutions

By Jackie McKnight  
PM DCO, Strategic Communications

In the ever-evolving landscape of cybersecurity, adaptability and innovation are paramount. As threats become more sophisticated and pervasive, organizations tasked with safeguarding sensitive information must constantly refine their strategies and tools. Project Manager Defensive Cyber Operations is now making a significant transition to revolutionize the Army's approach to cybersecurity and enhance their ability to protect against emerging threats as they join Program Executive Office Intelligence, Electronic Warfare & Sensors.

PEO IEW&S's mission of designing, delivering, and sustaining advanced technologies to give Soldiers the decisive edge has long been at the forefront of offensive cyber operations, which will now be complemented from a defensive perspective with the addition of PM DCO.

"The days of the Army being a kinetic-only force are gone," Brig. Gen. Ed Barker, the program executive officer for IEW&S, said. "Our ability



Project Manager Defensive Cyber Operations. |Courtesy graphic

to operate in multiple domains has become paramount with none more important than mastering the cyber warfare arena."

PM DCO represents a bold step forward, ushering in two key programs in their portfolio.

Cyber Platforms and Systems provides total life cycle management capability to the force. CPS focuses on the procurement and delivery of cyber platforms and cybersecurity tools for the Armed Forces. The cyber platform is the foundational

piece of equipment used by cyber-Soldiers. It allows them to conduct maneuvers on cyber terrain and affect Department of Defense Information Network defense. Defensive Cyberspace Operations Tools Suite provides the industry's best capabilities to the warfighter. These tools are used on the cyber platform to effectively conduct cyber protection team missions.

Cyber Analytics and Detection provides capabilities that help Soldiers analyze and detect external and internal cyber threats to the Army. CAD focuses on software-based programs that support mission command, planning, integration, analysis, and execution at all levels.

"The Army must contend with the constant evolution of advanced persistent threats, thus requiring the U.S. Army to remain vigilant and adaptive," Robert Zoppa, project manager for DCO, said. "DCO will continue to provide information dominance and decisive lethality with platforms and systems critical to defending the Department of Defense networks."


This change comes at a critical juncture as the digital landscape continues to evolve rapidly. The increasing interconnectivity of devices, the rise of remote work, and the growing reliance on cloud technologies all present new challenges that demand innovative solutions.

The transition of PM DCO, along with the recent stand-up of the Project Manager Cyber & Space, represents a significant bolstering of cyber capabilities for PEO IEW&S. It also reflects a dedication to staying ahead in the cybersecurity arms race. By embracing advanced technologies, enhancing their threat intelligence capabilities, and fostering collaboration, they are better positioned to protect organizations and individuals from the ever-evolving threat landscape.

In a world where cyber threats can have far-reaching consequences, PM DCO's transition under PEO IEW&S serves as a key opportunity to thwart those threats. It underscores the resilience and

adaptability of cybersecurity professionals who tirelessly work to ensure the safety and security of the digital world. The cybersecurity community will undoubtedly watch the merger closely, offering insights and inspiration for others in the field seeking to safeguard our digital future.

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# INSTALLATION GUIDE

## **C5ISR - Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance**

### **U.S. Army Communications-Electronics Command**

CECOM delivers integrated C5ISR weapon systems, business systems, and medical sustainment to enable full spectrum combat operations at the point of need.

For more information, visit:

<https://www.army.mil/cecom>

POC: Chief of Public Affairs Amburr Reese; amburr.j.reese.civ@army.mil; usarmy.apg.cecom.mbx.cecom-pao@mail.mil; (443) 861-6586

### **CECOM Integrated Logistics Support Center**

ILSC provides global C5ISR logistics support to the warfighter and coalition forces, in a timely, cost-effective manner. ILSC prepares and sustains equipment for combat and reset its forces for combat readiness following deployment. This mission is accomplished through rapid acquisition, maintenance, production, fielding, new equipment training, operation, and sustainment of CECOM equipment.

For more information, visit:

<https://cecom.army.mil/ILSC>

POC: Executive Officer to the Director Monica Youn; monica.a.youn.civ@army.mil; 443-861-6092

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For more information, visit

<https://cecom.army.mil/SEC>

POC: Stratcom Specialist Kevin Deegan kevin.m.deegan.ctr@army.mil; Stratcom Specialist Joshua Dewberry joshua.r.dewberry.ctr@army.mil; and OPS Branch Chief Dave Edwards

dave.a.edwards.civ@army.mil; (443) 861-8147

Network Command, Control, Communication, and Intelligence Cross-Functional Team

N-CFT conducts experiments, demonstrations, and prototypes to inform requirements, synchronize efforts designed to keep pace with threats and develop a data-centric future network through the rapid insertion of new technology. N-CFT activities address the most pressing challenges to the tactical network that Soldiers use on the battlefield or in any dynamic, lethal environment.

For more information visit

<https://www.army.mil/futures>

POC: Chief of Operations Bill Babauta; 443-861-5363

### **Program Executive Office Command, Control and Communications—Tactical**

PEO C3T delivers a unified network that addresses the most critical operational needs and supports the Army of 2030. Critical to supporting the Army of 2030 and pivoting to the Army of 2040 is a less complex network that can support large-scale combat operations by enabling formation mobility, providing assured voice communications, a data-enabled common operating picture and digital fires and resist cyber and electronic warfare attacks.

For more information, visit [https://](https://peoc3t.army.mil/c3t/)

[peoc3t.army.mil/c3t/](https://peoc3t.army.mil/c3t/)

POC: Public Affairs Specialist Danielle Kress; danielle.b.kress.civ@army.mil

### **Program Executive Office Intelligence, Electronic Warfare and Sensors**

PEO IEW&S delivers sensors as well as Processing, Exploitation, and Disseminations systems dedicated to affording decision dominance.

PEO IEW&S develops and integrates sensors and sensor data across multiple technologies ensuring warfighters

have a complete understanding of the battlefield. This is achieved through their ability to assimilate sensor information into relevant, timely products that can be used for targeting, situational awareness, force protection, cyber warfare and Reconnaissance, Surveillance, and Target Acquisition. By providing systems that cover the full spectrum of warfighters' needs, PEO IEW&S impacts virtually every mission from providing a persistent view of the battlefield to protecting aircrew from enemy threats. The team at IEW&S is dedicated to delivering systems that will ensure Soldiers have the decisive edge by delivering modernized equipment at the right time in the right place and at the best value for our Nation.

For more information, visit

<https://peoiews.army.mil/>

POC: Public Affairs Officer Brandon Pollachek; (443) 861-7820

### **Rapid Capabilities and Critical Technologies Office**

RCCTO will rapidly and efficiently research, develop, prototype, test, evaluate, procure, transition, and/or field critical enabling technologies and capabilities that address near-term, and mid-term threats. The Office will produce or acquire materiel solutions consistent with the Army's modernization priorities that maximize Soldiers' capabilities to deploy, fight, and win on future battlefields. For more information, visit:

<https://www.army.mil/rccto>

POC: usarmy.pentagon.hqda-rccto.mbx.external-affairs-office@army.mil; <https://www.army.mil/rccto#org-contact-us>

## **TEST & EVALUATION**

### **U.S. Army Test and Evaluation Command**

U.S. Army Test and Evaluation Command provides direct support to Army Futures Command and relevant,

timely information to senior Army leaders to make future force decisions enabling multi-domain operations through rigorous developmental testing and independent operational tests and evaluations. For more information, visit: [www.atec.army.mil/](http://www.atec.army.mil/)  
POC: Public Affairs Office; [usarmy.apg.atec.mbx.atec-hq-pao@army.mil](mailto:usarmy.apg.atec.mbx.atec-hq-pao@army.mil); (443) 861-9500

### **U.S. Army Evaluation Center**

The U.S. Army Evaluation Center produces unbiased, independent safety and operational evaluations to enable the Army to dominate in the multi-domain operational environment. For more information, visit: [www.atec.army.mil/aec/](http://www.atec.army.mil/aec/)  
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### **U.S. Army Aberdeen Test Center**

The U.S. Army Aberdeen Test Center plans, executes, and analyzes tests and test simulations across a full spectrum of environments, validating the safety and performance of new materiel. Ensuring Research and Development programs can successfully transition to Operational Testing, delivering combat capabilities with a decisive edge to our Warfighters. For more information, visit: <https://www.atec.army.mil/atc/>  
POC: Public Affairs Officer Deirdre Cascardo; [deirdre.s.cascardo.civ@army.mil](mailto:deirdre.s.cascardo.civ@army.mil); (410) 306-401

## **RESEARCH & DEVELOPMENT**

### **U.S. Army Combat Capabilities Development Command (DEVCOM)**

DEVCOM accelerates technology and delivers next-generation Soldier capabilities across the lifecycle to ensure overmatch for a lethal Army. For more information, visit <https://devcom.army.mil/>  
POC: [usarmy.apg.devcom.mbx.public-affairs-office@army.mil](mailto:usarmy.apg.devcom.mbx.public-affairs-office@army.mil)  
**DEVCOM Army Research Laboratory**

The U.S. Army Combat Capabilities Development Command, known as DEVCOM, Army Research Laboratory is the Army's research laboratory strategically placed under the Army Futures Command. DEVCOM ARL is the Army's sole foundational research laboratory focused on cutting-edge scientific discovery, technological innovation, and transitioning capabilities for the future Army. Our mission is to operationalize science for transformational overmatch. ARL executes intramural and extramural research organized by 11 competencies that provide the Army with foundational expertise and specialized capabilities grounded in scientific excellence and driven by unique Army challenges. Our disruptive scientific research coupled with collaborations and prioritized funding to the worldwide scientific community, both academic and commercial, create and exploit scientific knowledge in the competencies that are leveraged to develop new opportunities, build programs, align people and funding, and advise on future operational concepts. We also seek to dynamically and continually reshape these competencies by creating and directing new scientific discoveries to redefine the frontiers of the possible. For more information, visit: <https://arl.devcom.army.mil/>  
POC: <https://cftste.experience.crmforce.mil/arlext/s/contact-us>

### **DEVCOM C5ISR Center**

DEVCOM C5ISR Center enables the networked Warfighter by identifying, developing, and rapidly integrating innovative technologies that enable decisive lethality through information dominance in Multi-Domain Operations. For more information, visit: <https://c5isrcenter.devcom.army.mil/>

**STRATCOM POCs: Justin Eimers,** [justin.w.eimers.civ@army.mil](mailto:justin.w.eimers.civ@army.mil); Edric Thompson, [edric.v.thompson.civ@army.mil](mailto:edric.v.thompson.civ@army.mil); Dan Lafontaine, [daniel.e.lafontaine2.civ@army.mil](mailto:daniel.e.lafontaine2.civ@army.mil)

### **DEVCOM Chemical Biological Center**

DEVCOM CBC provides innovative chemical, biological, radiological, nuclear, and explosive defense capabilities to enable the Joint Warfighters' dominance on the battlefield and interagency defense of the homeland. For more information, visit: <https://www.cbc.devcom.army.mil/>  
POC: Public Affairs Officer, Strategic Initiatives Group Richard M. Arndt; [richard.m.arndt.civ@army.mil](mailto:richard.m.arndt.civ@army.mil); 410-436-1479

### **DEVCOM Data Analysis Center**

DAC informs Army transformation and readiness decisions across the life cycle through objective integrated systems-level Analysis, and development of credible Data and Analytic Tools. For more information, visit: <https://devcom.army.mil/>  
POC: Kyle Bond; [kyle.w.bond.civ@army.mil](mailto:kyle.w.bond.civ@army.mil)

### **Firing Tables and Ballistics Division, DEVCOM Armaments Center**

FTaB is responsible for ballistic characterization of munitions and the development of aiming data and ballistic fire control information for all unguided (and certain guided) combat weapon systems in the U.S. Army inventory, select tri-service systems, and select foreign military sales cases. This includes small caliber infantry systems, tank fired munitions, artillery, mortars, and rockets. For information about FTaB, visit: <https://ac.ccdc.army.mil/organizations/wsec/fcstd/ftab/>  
POC: Competency Manager Jason Fonner; [jason.a.fonner.civ@army.mil](mailto:jason.a.fonner.civ@army.mil); 401-278-4515

## **CHEMICAL & BIOLOGICAL**

### **20th Chemical, Biological, Radiological, Nuclear, Explosives Command**

The 20th CBRNE Command exercises mission command over assigned U.S.

# INSTALLATION GUIDE

Army Forces Command Chemical, Biological, Radiological, Nuclear and Explosive Ordnance Disposal forces. On order, the 20th CBRNE Command provides CBRN and EOD forces to Army, joint, interorganizational and multinational headquarters and deploys a Joint Task Force headquarters in support of combatant command requirements.

The command also directs and integrates the missions of two specialized units - the 1st Area Medical Laboratory and the CBRNE Analytical Remediation Activity.

For more information, visit:

<https://www.20cbrne.army.mil/>  
POC: usarmy.APG.20-cbrne.list.cbrne-pao-distro@army.mil; (410) 306-2718; (410) 306-4100 (24-hour Operations Center)

## 1st Area Medical Laboratory

The 1st Area Medical Laboratory deploys world-wide as a unit or by task-organized teams to perform surveillance, confirmatory analytical laboratory testing, and health hazard assessments of environmental, occupational, endemic and Chemical, Biological, Radiological, Nuclear threats in support of force protection and counter Weapons of Mass Destruction missions.

For more information, visit:

<https://www.20cbrne.army.mil/UNITS/1st-AML/>  
POC: usarmy.APG.20-cbrne.list.cbrne-pao-distro@army.mil; (410) 278-3246

## CBRNE Analytical and Remediation Activity

On order, the CBRNE Analytical and Remediation Activity deploys and conducts operations in support of combatant commanders or other government agencies in order to counter CBRNE and Weapons of Mass Destruction threats in support of National Countering WMD objectives.

For more information, visit:

<https://www.20cbrne.army.mil/UNITS/CARA/>  
POC: usarmy.APG.20-cbrne.list.cbrne-pao-distro@army.mil; 410- 278-3246

## U.S Army Chemical Materials Activity

Assess and destroy chemical warfare materiel, comply with chemical weapons treaty, protect people, and the environment. For more information, visit:

<https://www.cma.army.mil/>  
POC: Public Affairs Specialist Karen Nikol; karen.j.nikol.civ@army.mil; (410) 436-4292

## Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense

Provide integrated layered chemical, biological, radiological, and nuclear defense capabilities to the Joint Force across Combined Joint All-Domain Operations. For more information, visit <https://www.jpeocbrnd.osd.mil/>  
POC: usarmy.apg.dod-jpeo-cbrnd.mbx.jpeo-cbd-public-affairs-office@army.mil; 410-436-9000

## U.S. Army Medical Research Institute of Chemical Defense

To discover and develop medical solutions for chemical, biochemical and other emerging threats via medical research, clinical training and education, and consultation.

For more information, visit:

<https://usamricd.health.mil/Pages/default.aspx>  
POC: USArmy.Detrick.MEDCOM-USAMRMC.List.USAMRMC-Web-Support@health.mil; (410) 436-3276

## Program Executive Office, Assembled Chemical Weapons Alternatives

The Program Executive Office, Assembled Chemical Weapons Alternatives was responsible for the safe and environmentally compliant

destruction of the remaining U.S. chemical weapons stockpile stored at the U.S. Army Pueblo Chemical Depot in Colorado and the Blue Grass Army Depot in Kentucky which was completed July 7, 2023. The program is responsible for a multi-year closure phase at each site.

For more information, visit:

[www.peoacwa.mil](http://www.peoacwa.mil) POC: james.w.campbell.civ@army.mil; (410) 436-3398

## PUBLIC HEALTH & MEDICAL

### Defense Centers for Public Health—Aberdeen

DCPH-A supports our Nation by improving health and building readiness—making extraordinary experiences ordinary and exceptional outcomes routine. DCPH-A also supports the Defense Health Agency vision, which is the unrelenting pursuit of excellence as we care for our joint force and those we are privileged to serve. Anytime, Anywhere—Always.

For more information, visit:

<https://ph.health.mil/Pages/default.aspx>  
POC: Chief of Public Affairs and Marketing Division Chanel S. Weaver-Folami; chanel.s.weaver-folami.civ@health.mil; (410) 417-2937

### U.S. Army Dental Clinic Command

The APG Dental Clinic provides warrior-focused oral healthcare with a team of professionals dedicated to excellence and unified in service to active duty, National Guard and reserve Soldiers who are on orders for more than 30 days at APG. The clinic provides a dentally ready force that supports Army missions.

Under its Go First Class program, Soldiers receive annual oral care procedures, such as exams, cleanings, and fluoride treatments, during a single appointment.

For more information, visit:

<https://kirk.tricare.mil/Health-Services/Dental>

POC: Dental Assistant Janira Atkinson; janira.d.atkinson.civ; (410) 278-1795

### **Kirk U.S. Army Health Clinic**

Provide holistic quality health services to the greater APG community to promote resilience, conserve the fighting strength and ensure a medically ready force.

For more information, visit:

<https://kirk.tricare.mil/>

POC: KUSAHC call center;

(410) 278-KIRK (5475)

### **APG Veterinary Clinic**

The APG Veterinary Clinic provides veterinary support to DOD operations in areas of responsibility, including veterinary food inspections, zoonotic disease management, military working dogs and privately owned animals (pets) wellness support. Services are provided for eligible beneficiaries (active-duty service members, retirees and their families) at APG. The clinic is open on Mondays and Tuesdays.

POC: Veterinarian Carol Bassone;

carol.a.bossone.naf@health.mil;

(410) 278-4604

## **SUPPORT SERVICES**

### **203D Military Intelligence Battalion (Technical Intelligence)**

On order, 203D MI BN (TECHINT) directs operational technical intelligence activities and conducts expeditionary deployment operations at the battalion level in order to provide intelligence derived from the exploitation of enemy weapons, equipment, and other materiel found, captured, or acquired within a theater of operations. POC: usarmy.usarc.mirc.mbx.203-hq-s1@army.mil; usarmy.usarc.mirc.list.203-hq-s3@army.mil

### **U.S. Army Audit Agency**

As an integral part of the Army team,

we serve the Army's emerging needs by helping Army leaders assess and mitigate risk, and by providing solutions through independent internal auditing services for the benefit of Army Soldiers, civilians, and families.

For more information, visit

<https://www.army.mil/aaa>

POC: usarmy.pentagon.hqda-aaa.mbx.

zbx-strategic-initiatives@army.mil

### **Army and Air Force Exchange Services**

AAFES provides quality merchandise and services to customers at competitively low prices and generates earnings which provide a dividend to support Morale, Welfare and Recreation programs. At APG, AAFES manages the Exchange, Express (Shoppette) locations on APG North (Aberdeen) and APG South (Edgewood), Tropical Smoothie Cafe and multiple Subway locations. For more information, visit:

[www.shopmyexchange.com](http://www.shopmyexchange.com)

POC: Operations Manager Angelica

Guerrero; guerreroa@aafes.com;

(410) 272-6828

### **Army Contracting Command-APG**

Provide responsive, cost-effective and compliant contracting solutions in support of Army readiness, modernization, and soldier lethality. For more information, visit:

<https://acc.army.mil/contractingcenters/acc-apg/>

POC: 410-278-0839

(CHECKING ON EMAIL)

### **Clothing and Heraldry Product Support**

Provide superior Life Cycle Logistics for all Clothing and Individual Equipment, ensuring Soldiers are equipped with most functional, versatile, and modern clothing and equipment available.

POC: Division Chief John Galimore;

john.t.galimore.civ@army.mil;

(410) 436-0695

### **Civilian Human Resources Agency Headquarters**

The Civilian Human Resources Agency provides the full range of human resources services to support a highly skilled and ready professional civilian workforce that supports national defense. For more information, visit:

[https://portal.chra.army.mil/hr\\_public](https://portal.chra.army.mil/hr_public)

(This website is set to be updated due to CHRA reorganization)

### **Defense Commissary Agency, Aberdeen (DECA-APG)**

The APG Commissary delivers a premier commissary benefit to the armed services community that encourages an exciting shopping experience, satisfies patron demand for quality grocery and household products, delivers exceptional savings while enhancing quality of life, fostering recruitment, retention and readiness and supporting warfighters' peace of mind, knowing their families have secure and affordable access to American products.

For more information, visit:

<https://pprd.commissaries.com/shopping/store-locations/aberddeen-pg>

POC: APG Commissary Office; Aberdeen-PG.commissary@deca.mil;

(410) 278-3101

### **Army Military Pay Office**

The Army Military Pay Office at APG provides military pay operations to Army Active Duty, Reserve, and National Guard Service members. Our goal is to pay Soldiers what they are entitled to timely and with accuracy. We are a fully integrated financial service provider here to support and serve the brave men and women who serve our country and protect our way of life.

For more information, visit:

<https://home.army.mil/apg/my-fort/all-services/ampo>

POC: Director of AMPO-APG/Fort Dix Niketa L. Wise; niketa.l.wise.civ@army.mil; (410) 06-2363/2367

# INSTALLATION GUIDE

## **U.S. Army Garrison Aberdeen Proving Ground (USAGAPG)**

We provide responsive installation services to our military and those who enable them.

For more information, visit:

<https://home.army.mil/apg/about/Garrison>.

POC: APG Garrison Public Affairs Office; AMC-IMCOM-ID-Sustainment-USAG-APG-PAO@army.mil; or Public Affairs Specialist Hannah Miller; (410) 278-9036

## **Garrison Housing Office**

The APG Housing Division and Corvias Military Living welcomes you, and we look forward to assisting you and your family in your transition to your home in the Aberdeen community. Whether you choose to live on or off post, the housing office is here to provide assistance.

For more information, visit:

<https://home.army.mil/apg/about/Garrison/garrison-housing-office>

POC: [usarmy.apg.usag.mbx.dpw-housing-office@army.mil](mailto:usarmy.apg.usag.mbx.dpw-housing-office@army.mil); (410) 306-2011

## **APG Sexual Harassment/Assault Response and Prevention Fusion Directorate**

The Fusion Directorate serves as the central point of support enabling synchronization and integration between the medical, legal, and investigative efforts supporting victims and commanders for sexual harassment/sexual assault cases. One stop shop.

For more information, visit:

<https://www.facebook.com/APGSHARP-FusionDirectorate/>

POC: [usarmy.apg.cecom.mbx.sharp-resource-center@mail.mil](mailto:usarmy.apg.cecom.mbx.sharp-resource-center@mail.mil); APG SHARP Hotline; 410-322-7154; DoD Safe Helpline; 1-877-995-5247

## **MWR COMMUNITY RECREATION DIVISION**

### **Auto Crafts Center**

Bldg. 2379  
(410) 278-5178/5789

Self-help facility with lift bays, flat bays, bodywork bays, tire change station, and paint room.

### **Outdoor Recreation**

Bldg. 2184  
(410) 278-5789/4133

Manages registration for picnic and recreational areas, fishing permits, swimming pool passes, RV storage, for sale lots, equipment rental and MWR boat launch and marina activities.

### **RV Storage**

Bldg. 2184  
(410) 278-5789/4133

Storage space for recreational vehicles on APG North (Aberdeen) and APG South (Edgewood)

### **Equipment Rental**

Bldg. 2184  
(410) 278-5789/4133

Offers a variety of rentals including party equipment, yard games, camping equipment, watercraft, and trailers.

### **Campgrounds**

Bldg. 2184  
(410) 278-5789/4133

Shore Park Travel Camp offers cabins and RV sites, as well as laundry facilities and a bathhouse. Other campsites include Marylander RV Campground on APG North (Aberdeen) and Skippers Point Primitive Campground on APG South (Edgewood).

### **Picnic Areas**

Bldg. 2184  
(410) 278-5789/4133

Manages reservations for Shore Park on APG North (Aberdeen) and Skippers

Point & CAPA Field Picnic Areas on APG South (Edgewood).

### **Marinas**

Bldg. 2184  
(410) 278-5789/4133  
Boat storage registration. Boat ramps available at Swan Creek Boat Ramp, Spesutie Island Marina, Gunpowder Neck Marina

### **Skeet & Trap**

Bldg. E4737  
(410) 278-5789/4133  
Special outings are available by request. In accordance with APG regulations, all guns must be registered with the Directorate of Operations law enforcement.

### **Hunting & Fishing (managed by the Directorate of Public Works)**

Bldg. 4304  
(410) 278-9774/5789/4133  
Manages hunting permits, safety classes and archery & shotgun proficiency qualifications. Manages and issues recreational and commercial fishing areas and permits.

### **APG North Rec Center**

Bldg. 3326  
(410) 278-2432/4011  
Hosts special events. Offers free Wi-Fi internet access; library, Tickets office, pool tables & 1SGT BBQ.

### **APG South Rec Center**

Bldg. E4140  
(410) 278-4011/2432  
Hosts special events. Offers free Wi-Fi internet access.

### **Ticket Office**

APG North Rec Center-Bldg. 3326  
(410) 278-4011/2432  
Discounted tickets for local, regional and national travel destinations and recreational activities.

### Library

Bldg. 3326  
(410) 278-3417

Offers following items: fiction & non-fiction books, children's section, magazines, newspapers and military periodicals; 4,000+ DVDs, PS3, Xbox and Wii video games; public access computers w/CAC readers and printing capability, wireless internet, and more.

### APG North Athletic Center

Bldg. 3300  
(410) 278-7933/7934

Facilities have fitness areas, free weights, cardiovascular equipment, locker and shower rooms, saunas, and more. For information about 24/7 fitness, call 410-278-7933.

### APG South Hoyle Gym

Bldg. E4210  
(410) 436-7134/3375 or  
(410) 278-7934

Facilities have fitness areas, free weights, cardiovascular equipment, locker and shower rooms, saunas, and more. For information about 24/7 fitness, call (410) 278-7933.

### Shore Park Swimming Pool

Shore Pool-Bldg. 2031  
(410) 278-5789  
Pool open Memorial Day to Labor Day

### MWR BUSINESS OPERATIONS DIVISION

#### Ruggles Golf Course

5600 Maryland Blvd.  
(410) 278-4794  
Offers 18-hole regulation course, driving

range, putting green, short game chipping area, pro shop, cart rental and golf lessons.

### Exton Golf Course

E1260 Selenesdosey Road  
(410) 436-2213 Offers nine-hole regulation course, putting green, cart rentals, and pro shop.

### APG Bowling Center (Brewner Lanes)

Bldg. 2342  
(410) 278-4041 (business hours)  
(410) 278-4794 (outside business hours)

Open bowling, bowling leagues, and other group events. Parties at the APG Bowling Center! We also host office and Organization Day parties and meetings, catered events, all types of parties and birthdays.



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## **Strike Force Cafe @ the APG Bowling Center**

APG Bowling Center-Bldg. 2342  
(410) 278-4041 (business hours)  
(410) 278-5915/3062 (outside business hours)

Full snack bar serving at the APG Bowling Center. Lunch only Tuesday-Thursday. Catered parties and other food requests. Strike Force Café Lunch and catered food.

## **Top of the Bay**

Bldg.30  
6817 Plumb Point Loop  
(410) 278-5915/2552/3062

Whatever the event, Top of the Bay can accommodate. We would like to take this opportunity to thank you for considering us for your special event. Whether you are planning a birthday party for a loved one, retirement for your boss or co-worker or celebration of your new life together as a married couple, we are prepared to offer you the highest quality food and service. Here at the Top of the Bay, we can provide you with everything from elegant sit-down served dinners and delicious buffets to casual hors d'oeuvres receptions. We offer a premier conference location, wedding venue, off-site catering, banquet hall, and special events space; plus, the meeting facilities and catering capabilities that your event needs. Top of the Bay is fully equipped and ready for corporate, offsite, government, and family functions for groups. No matter the size. Our amazing catering team created their original menus to any meeting or occasion from formal plated dinners to happy hours, cocktail parties, galas, and festive parties. The extremely affordable meeting space with a beautiful waterfront location is an ideal

for government work functions, training, conferences, and commemorations.

## **First Sergeant's Smoked Barbecue**

APG North Rec Center-Bldg. 3326  
(443) 752-4642

Eat in and carry-out menus include pulled pork, ribs, chicken, hot dogs, burgers, desserts, sandwiches, and more. Catering is also available.

## **School Liaison-School Support Services**

Bldg. 2522  
410-278-1917

School Liaison services (K-12) provide a communicative link between the military community and local public-school systems. Tutoring information is available. Please call for an appointment.

## **Aberdeen Area Child Development Center – APG North**

Bldg. 2485  
(410) 278-5748/3487

## **Bayside Child Development Center – APG North**

Bldg. 2521  
(410) 278-4683

## **Edgewood Area Child Development Center – APG South**

Bldg. E1901  
(410) 436-2077/2692

## **--Aberdeen Area Youth Services - APG North**

Bldg. 2522  
(410) 278-9061/4995

## **Edgewood Area Youth Services - APG South**

Bldg. E1902  
(410) 436-2862/2098

## **Youth Sports**

Bldg. 2503  
(410) 306-2297  
Youth Sports and Fitness program provides support for children 3 to 18 years of age to encourage health and life-long habits.

## **Army Community Service**

Bldg. 2503  
(410) 278-7572  
Army Community Service has a wealth of resources for Soldiers, families, reservists, retirees, and DoD civilians. The programs offered are designed to enhance the quality of life, promote resilience and self-reliance, and provide stability during war and peace.

## **ADELPHI LABORATORY CENTER**

Provide valuable support services and infrastructure to enable scientific research, development, and the well-being of the workforce.

For more information, visit <https://home.army.mil/apg/index.php/about/ALC>

POC: APG Garrison Public Affairs Office; AMC-IMCOM-ID-Sustainment-USAG-APG-PAO@army.mil; or Public Affairs Specialist Hannah Miller; (410) 278-9036



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# PUZZLES

## Dr. Martin Luther King Jr. Day Trivia - Maya Green, APG News

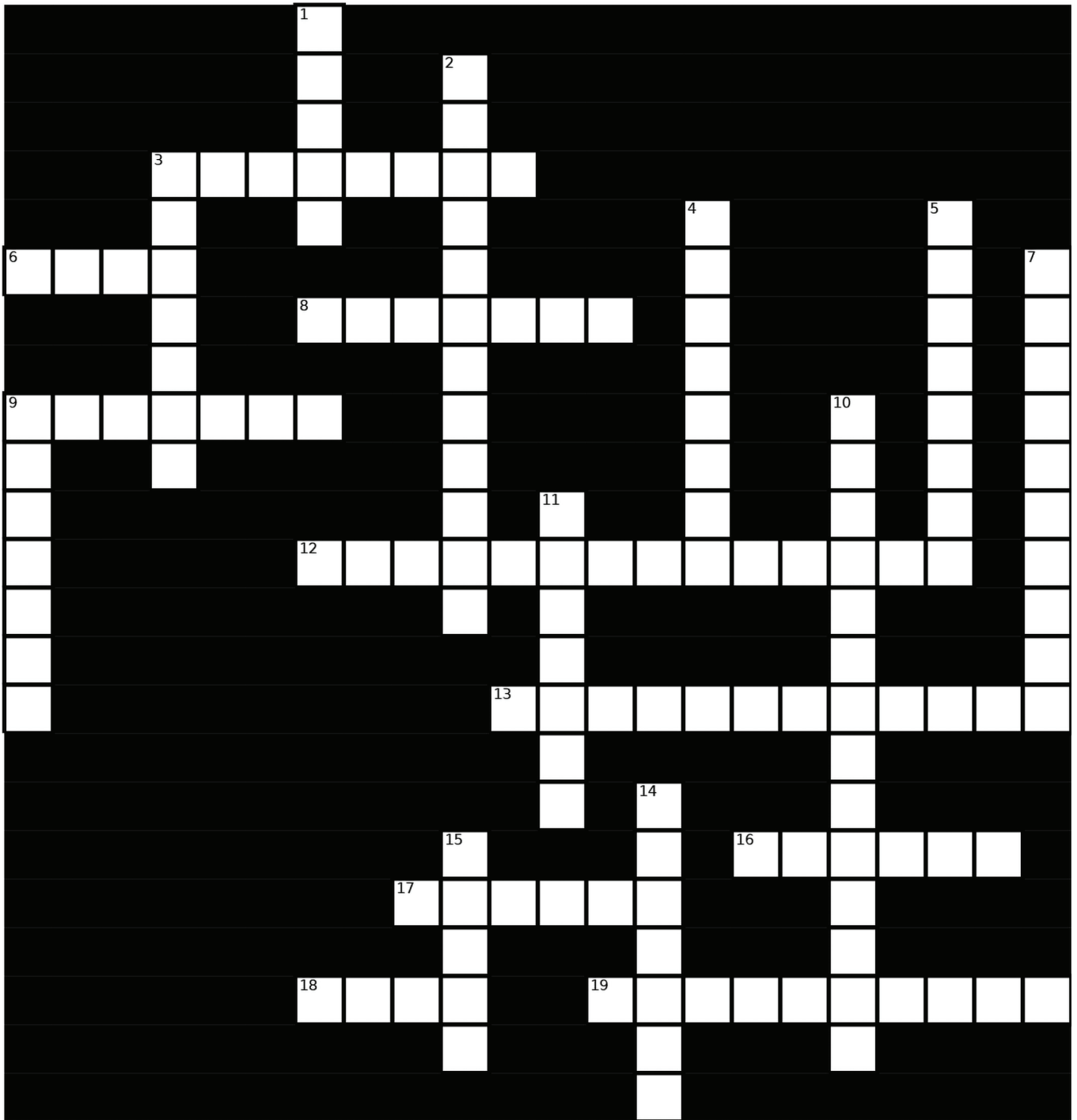
In 1986, President Ronald Reagan signed legislation enacting Dr. Martin Luther King, Jr. Day, which created a national holiday on the third Monday in January to remember Dr. King on his birthday. Complete this crossword puzzle to learn more about MLK and his effect on the nation!

### Across:

- 3 Martin Luther King's \_\_\_\_\_ and moral authority helped usher in the Civil Rights Act of 1964 and the Voting Rights Act of 1965.
- 6 Martin Luther King's life goal was to redeem the \_\_\_\_\_ of America.
- 8 Martin Luther King's most famous march was the 1963 March on Washington for Jobs and \_\_\_\_\_.
- 9 Martin Luther King was a \_\_\_\_\_ minister.
- 12 During Martin Luther King's life, Black Americans' voting rights were denied by complicated, onerous, and \_\_\_\_\_ rules. They could be fired from their jobs or face violence for trying to register to vote.
- 13 Martin Luther King was \_\_\_\_\_ awarded the Presidential Medal of Freedom and the Congressional Gold Medal.
- 16 In 1965, Martin Luther King helped organize the Selma to Montgomery marches to advocate for Black \_\_\_\_\_ rights.
- 17 The Federal Bureau of Investigation's Counterintelligence Program began surveillance of Martin Luther King, as FBI Director J. Edgar \_\_\_\_\_ believed him to be a national threat.
- 18 Martin Luther King is quoted saying "Hate cannot drive out hate, only \_\_\_\_\_ can do that."
- 19 Martin Luther King unjustly served time in a \_\_\_\_\_, Alabama jail.

### Down:

- 1 Martin Luther King was one of the most important and influential \_\_\_\_\_ rights leaders in the 1950s and 1960s.
- 2 The cornerstones of Martin Luther King's activism were based on non-violence and civil \_\_\_\_\_, both of which were inspired by his Christian faith and the teachings of Mahatma Gandhi.
- 3 Martin Luther King was born in \_\_\_\_\_, Georgia, on Jan. 15, 1929.
- 4 Martin Luther King was elected the president of the \_\_\_\_\_ Christian Leadership Conference. From this position, he helped organize many civil rights movement actions, the most famous being the 1963 March on Washington.
- 5 Martin Luther King's "I have a Dream" speech influenced the federal government to take more direct actions towards racial \_\_\_\_\_.
- 7 Martin Luther King rose to prominence as a leader in 1955 during the \_\_\_\_\_ bus boycott when he was selected to take charge to desegregate the bus services.
- 9 Martin Luther King imagined a different future for America, one he called the "\_\_\_\_\_ Community."
- 10 During Martin Luther King's life, Black Americans risked jail time for accessing public \_\_\_\_\_ like drinking fountains, parks, restrooms, restaurants, and hotels.
- 11 On Aug. 28, 1963, Martin Luther King delivered his "I have a Dream" speech at the \_\_\_\_\_ memorial in Washington, D.C.
- 14 This empowers individuals, strengthens communities, bridges barriers, creates solutions, and moves us closer to Martin Luther King's vision.
- 15 In 1964, Martin Luther King won the \_\_\_\_\_ Peace Prize.



## Word Scramble

To celebrate Valentine's Day, try to unscramble these popular romantic comedies!

IGONNTT LILH \_\_\_\_\_

SRNKTOOMCU \_\_\_\_\_

RSINABA \_\_\_\_\_

IXSTNEE CLADNES \_\_\_\_\_

SCUELSEL \_\_\_\_\_

SSLELPSEE IN TETELSA \_\_\_\_\_

HESEAPRSAKE IN ELOV \_\_\_\_\_

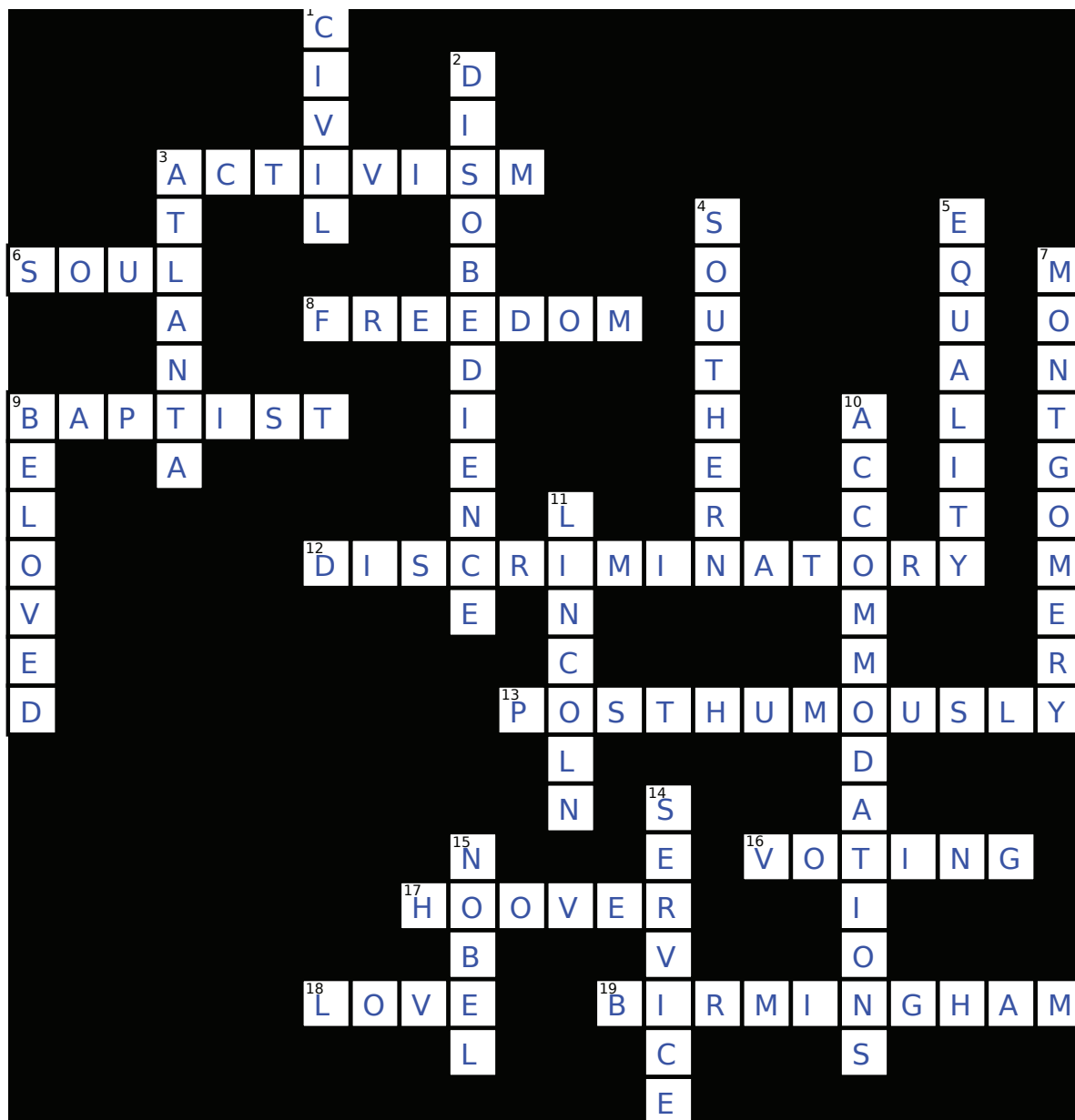
AL LA DALN \_\_\_\_\_

EHT POOAPSLR \_\_\_\_\_

RAEGES \_\_\_\_\_

# PUZZLE ANSWERS

## Crossword



## Word Scramble

NOTTING HILL

MOONSTRUCK

SABRINA

SIXTEEN CANDLES

CLUELESS

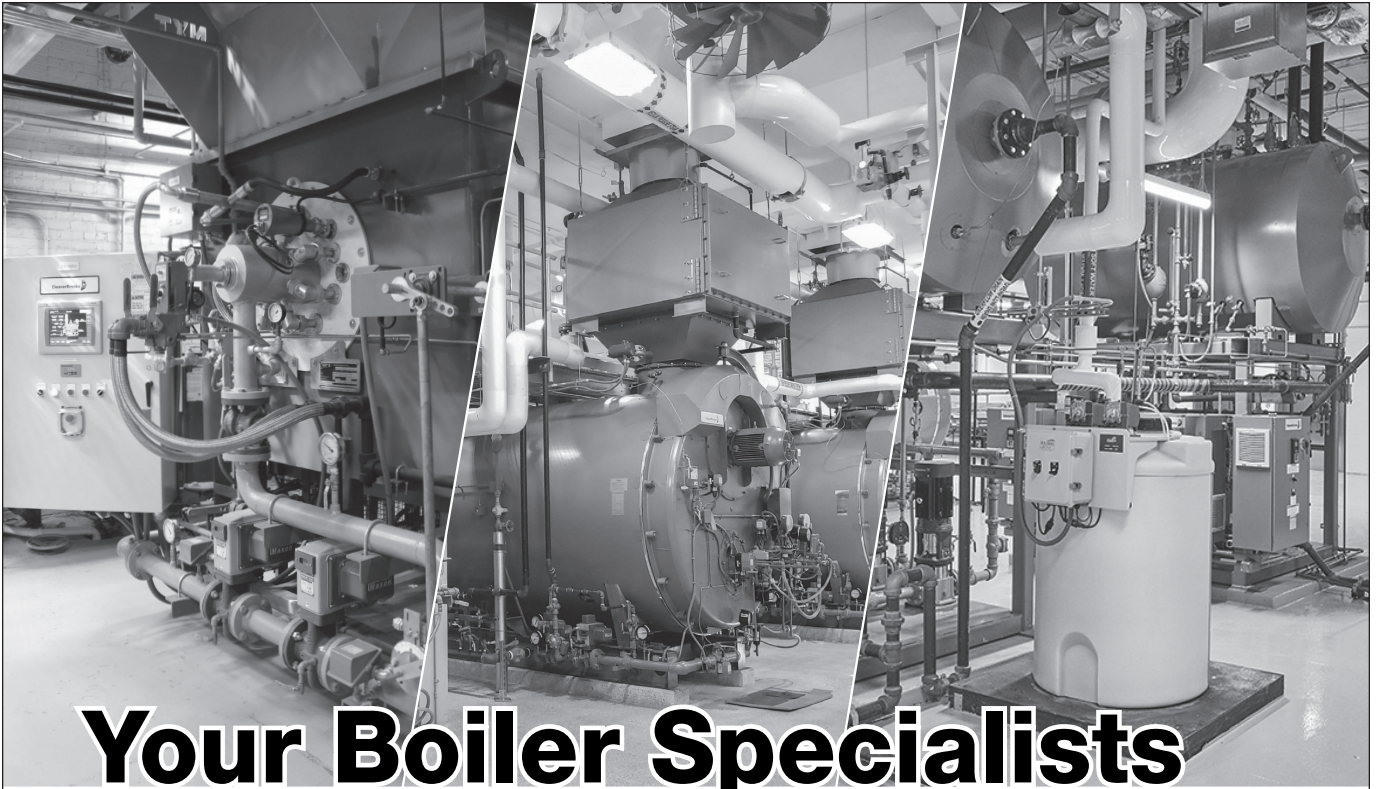
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