

# APG NEWS



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## CERDEC reorganizes workforce; new name to focus on core competencies

By **EDRIC THOMPSON**  
RDECOM CERDEC Public Affairs

The U.S. Army Research, Development and Engineering Command's Communications-Electronics RD&E center has reorganized an element of its workforce to better support integrated capability solutions in mission command; computing platforms; power and Command, Control, Communications, Computers,

Intelligence, Surveillance and Reconnaissance (C4ISR) platform integration.

The CERDEC Command and Control Directorate, or C2D, has changed its name to Command, Power and Integration – CP&I – and has restructured its branches to better emphasize its core competencies and to ensure that these competencies are not split across divisions.

The new organization name –

Command, Power, & Integration – directly reflects the mission of the organization, which is to innovate and implement solutions in the specific core competencies of Mission Command Capabilities, Mission Command Computing Platforms, Power and Energy, and C4ISR Platform Prototyping & Integration.

The changes allow an increased focus on individual core competencies. They also

**MORE ONLINE**

Common Access Card holders can visit [https://www.milsuite.mil/wiki/Command\\_Power\\_&Integration\\_CP&I\\_Directorate](https://www.milsuite.mil/wiki/Command_Power_&Integration_CP&I_Directorate) to learn more about CP&I.

allow the directorate to better leverage internal synergies to develop integrated capabili-

ties solutions for Army-unique challenges, said CP&I Director John Willison, a member of the Senior Executive Service.

"We're doing everything we can to make sure we've got the best people with the best facilities working in priority areas in which we can uniquely add value," Willison said. "Not only will each division

See **FEEDBACK**, page 8



Photo by Ray Naystatt

The U.S. Army Tank Automotive Research, Development and Engineering Center soon will have a solar-powered micro grid to supply electricity to two laboratories and to power the Detroit Arsenal parking lot lights. This photo shows similar solar panels being installed at the Space and Naval Warfare Systems Command in San Diego.

## Army partners with industry for up to \$7 billion in renewable-energy projects

By **J.D. LEIPOLD**  
Army News Service

The Army will partner with industry for up to \$7 billion in renewable-energy sources — wind, solar, biomass and geothermal — and has released a draft request for proposal, or RFP, that could allow multiple projects to begin nationwide.

Speaking at a media roundtable

March 15, Katherine Hammack, assistant secretary of the Army for Installations, Energy & Environment, said the cumulative investment will help the Army reach its goal of having 25 percent of the Army's energy come from renewable sources by 2025. She began the roundtable by restating the Army's "net-zero strategy."

"Specifically, a net-zero energy installation produces as much energy annually as it uses, and this does not mean replacement of current energy requirements with onsite energy production," she said. "It means that installations address energy efficiency as the primary first step and then

See **IMPROVING**, page 8

## Ruggles gears up for start of season

By **JASON DOMINGUEZ**  
FMWR

A new green on Hole 14, tee boxes and an upgraded teaching and practice facility will celebrate the start of the new regular season at Ruggles Golf Course next month.

Community members are invited to attend a weekend of celebration April 13-15 that will include contests, giveaways and vendors from professional golf companies.

"We've been looking forward to this since the renovations started, and we're ready to give our golfers a top-notch experience," said Rik Bond, Ruggles and Exton golf course

See **WEEKEND**, page 8



Courtesy photo

Ruggles' Hole 3 is one of several scenic locations on the golf course. In celebration of the start of the new season, community members are encouraged to take advantage of the April 13-15 festivities.

## Women in Bloom to honor APG's trailblazing women

Past and present joining forces for commemoration

By **YVONNE JOHNSON**  
APG News

In celebration of Women's History Month, the APG Garrison will host a dedication ceremony honoring women's contributions in the fields of research, science and technology since the post opened in 1917.

The Women in Bloom dedication of the Women's Research and Development Memorial Garden will take place Friday, March 23, 2:30 p.m., on the east side of Garrison Headquarters, Bldg. 305.

Guest speakers will include Katherine Hammack, assistant secretary of the Army for Installations, Energy and Environment, and Winifred Jonas, an early programmer of the ENIAC, one of the world's first computers. The ENIAC (Electronic Numerical Integrator and Computer) was the first general-purpose electronic computer capable of being programmed to solve a full range of computing problems.

The memorial garden project was spearheaded by Dr. Deidre DeRoia, of the DPW Environmental Division and garrison public affairs specialist Terri

See **COMMUNITY**, page 11

## ECBC furniture recycling saving money, improving environment

By **YVONNE JOHNSON**  
APG News

Doing their part to reduce waste, the Edgewood Chemical Biological Center is leading an aggressive furniture recycle/re-purpose program.

Personnel from ECBC's Engineering Directorate have moved and stored nearly 100 cubicles used by the U.S. Army Command, Control, Communications, Computers, Intelligence,

See **BRAC**, page 8

### WEATHER

Thurs.



75° | 55°

### INDEX

Pg 2 ..... **Opinion**  
Pg 2 ..... **Women's History**  
Pg 6 .. **Mark Your Calendar**  
Pg 11 ... **Worship Schedule**



### Real Sci-Fi

ECBC developing technologies to counter emerging chemical and biological threats

page 11



### Showing off!

Foreign dignitaries, local and federal officials visit APG, view technologies that defend against weapons of mass destruction

page 4

### ONLINE

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### CHECK YOUR ATTITUDE!

What behaviors and attitudes hinder women's equality? Find out what community members had to say. **PAGE 2**

# OPINION

## APG is part of Army's future

It is a great honor to take the leadership reins of Aberdeen Proving Ground and the U.S. Army Communications-Electronics Command.

The past few weeks since I took command have gone by quickly as I learn about all of the great work you do for the Soldier.

As I have traveled around the installation, met various staff, and gained a greater understanding of the missions we perform, I have been amazed at the scope, impact and importance of your work. You are making a tremendous difference for our Army.

While new to the installation, I know APG has changed considerably as it has evolved to meet the needs of the Army. Its transformation is nothing less than remarkable. With the Base Realignment and Closure process behind us, we are now faced with great opportunities ahead of us.

The future for us is both exciting and challenging because APG is critical to the decisive edge our Soldiers bring to the fight. In the years ahead, APG will help guide the Army's modernization efforts for the 21st century.

Whether it's advancing the Network, the Army's No. 1 modernization priority, or developing cutting-edge tech-



“The future for us is both exciting and challenging because APG is critical to the decisive edge our Soldiers bring to the fight. In the years ahead, APG will help guide the Army's modernization efforts for the 21st century.”

nologies for robotics, ballistics testing, materials science, public health, land warfare, chemical biological defense and response, or many other areas of technology, the bottom line is that APG will be instrumental in introducing evermore innovative systems to keep Soldiers safe and successful on the battlefield.

The world-class workforce here at APG that is focused on facilitating the development of our capabilities should be treated in a world-class manner. There is much work ahead of us in this regard.

Improving the quality of life for our workforce, Family members, and community is my No. 1 priority. As we move forward, let us look forward to continuing partnerships with APG leadership...partnerships that foster an environment of synergy amongst the APG community. It's that synergy that

makes us uniquely the Home to Army Technology.

Partnering with community leaders throughout this region will continue to be a major thrust. Their support is instrumental to the continuing transformation of our post and to an ever-improving quality of life. So, we will work closely with our community partners to achieve even greater things.

Already, I've been amazed by our joint potential. I've visited the Aberdeen High School's Science and Math Academy, as well as Freestate ChalleNGe Academy and saw young people developing into outstanding leaders of the future.

Last month marked our installation's Black History Month event where the teamwork and synergy between APG tenant organizations were evident. That spirit of teamwork enables our post to

be positioned to support the Army of tomorrow.

With the recent ceremonial ribbon cutting, we've opened our newest child development center, now providing our Families with improved child care services and facilities, an achievement of which I'm proud to witness.

The APG community is a tremendous population with great opportunities that lie ahead. As we move forward together, as one team, I ask each of you to make a difference in the lives of those with whom you work and support.

I look forward to leading this great Army installation.

**Maj. Gen. Robert S. Ferrell**

Commander, U.S. Army Communications-Electronics Command & Aberdeen Proving Ground

## WOMEN'S HISTORY

### What behaviors and attitudes hinder women's equality?



**Tina Long-Williams**

Industrial hygienist, Battelle

“Some women have a problem with self worth. They don't think as highly of themselves as they should. When you see others as more important [than you], then you spend more time placing their goals and accomplishments above your own.”



**Debbie Denardi**

Coffee Connections barista, former military spouse, current sheriff deputy spouse

“I think stereotyping is a big problem. Women have always been treated lesser even though we're the ones behind the males. I supported my husband throughout his military career. We moved whenever he had to move. He always tells people he couldn't have done it without me. The hardest job in the military is being a military spouse.”



**Andrew Funke**

DES police officer

“Some jobs here at APG are historically male-oriented. My wife is in the military and she feels she has to work harder to prove herself in typically male-driven roles.”



**Sue Singh**

Registered nurse, Kirk U.S. Army Health Clinic

“A lot depends on personal perceptions. I feel equal to any man. When you feel inferior you tend to get treated that way. My mom taught me to stand up for my rights and always do what is right. You can't feel someone is superior without feeling inferior.”

### APG SEVEN DAY FORECAST

Thurs



75°|55°

Fri



78°|56°

Sat



62°|52°

Sun



59°|48°

Mon



65°|44°

Tue



61°|46°

Wed



66°|48°

## APG NEWS

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

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# Grant applications available for spouses

*Picerne Military Housing*

Applications for the 2012 Educational Grant for spouses of active-duty service members are available at [www.ourfamilyfoundation.org](http://www.ourfamilyfoundation.org).

Family for Families First Foundation is committed to supporting military families in the pursuit of higher education and has awarded more than \$3 million since 2006.

Applications must be submitted by May 17. Each year, 20 educational grants are given in amounts up to \$5,000

for the spouses of active-duty service members at Forts Meade, Bragg, Polk, Rucker, Riley, Sill, and Aberdeen Proving Ground.

Applicants may be in any stage of the educational process and awards are to be used for the 2012-13 academic year. Recipients of a grant will be notified by July 2.

"We are honored to help military Families reach their educational goals, and we hope these grants help the spouses of active-duty service members to reach higher," said Maria Montalvo, executive director.



*One Company. One Mission. Families First.™*

Visit the website for more information, or call 401-228-2836.

Family for Families First was created by John G. Picerne, president and CEO of Picerne Military Housing, to support the spouses and children of active-duty troops assigned to Picerne Military Housing installations at Forts Meade, Bragg, Polk, Rucker, Riley, Sill and APG. Families do not have to reside in on-post housing in order to qualify for scholarships or grants. The Foundation also serves to further the primary mission of Picerne Military Housing – putting military Families First™.

## Contract employee honored

*Special to the APG News*

Congratulations to Timothy P. Baker, a branch chief with Army Contracting Command – APG's Huachuca Division, Fort Huachuca, Ariz. Baker won the Army Materiel Command's 2010 Louis Dellamonica Award for Outstanding Personnel of the Year. This award recognizes outstanding accomplishments that signifi-



**Baker**

cantly contribute to AMC's mission. Nominees are judged on how their initiatives measurably improve their work environment, how they motivate and inspire fellow employees to improve or increase the quality of their own work, and how well they are viewed by peers, subordinates, and supervisors.

The award was named in honor of Louis Dellamonica, a general engineer at the Hawthorne Army Depot, Nev. Dellamonica's 65-year career exemplified integrity, innovation, leadership, and outstanding dedication to AMC's mission.

The editor-APG@conus.army.mil email is no longer active. Please send all submissions to [adriane.c.foss.civ@mail.mil](mailto:adriane.c.foss.civ@mail.mil).

# Team Edgewood CBRNE hosts capabilities expo

By **BREENA BERTE**  
and **MONIKA DEGAY**  
*Special to the APG News*

Aberdeen Proving Ground is a national treasure for combating weapons of mass destruction.

This is due in large part to the center of excellence created by Edgewood Team CBRNE—the co-location of eight Department of Defense organizations at APG South (Edgewood) with missions dedicated to providing the Warfighter and Homeland capabilities needed for effective response to Chemical, Biological, Radiological, Nuclear, and High Yield Explosive (CBRNE) threats.

International dignitaries and local, state and federal officials were among the more than 300 guests attending a showcase to highlight those capabilities March 9 and 12 at the CBRNE Product Development Center at APG South.

These capabilities are provided by Edgewood Team CBRNE thanks to a highly skilled workforce through research and technology, systems development, test and evaluation, and field operations. Edgewood Team CBRNE is comprised of the following organizations that span the continuum of the life-cycle for CBRNE products:

- 20th Support Command (CBRNE)
- Edgewood Chemical Biological Center
- U.S. Army Public Health Command
- U.S. Army Medical Research Institute of Chemical Defense
- Joint Science and Technology Office
- Joint Program Executive Office for Chemical and Biological Defense
- U.S. Army Chemical Materials Agency
- Assembled Chemical Weapons Alternatives Program

Douglas Bryce, Senior Executive Service and Deputy Joint Program Executive Officer for Chemical and Biological Defense, described this purposeful alliance of CBRNE agencies as a “concerted effort to showcase APG



Courtesy photo

**20th Support Command CBRNE conducts a capabilities exercise during the expo, which drew hundreds of attendees, including foreign dignitaries and local and federal officials.**

as a key center of gravity for all things related to the countering of weapons of mass destruction in support of the national strategy.”

The organizations of Edgewood Team CBRNE have not always enjoyed co-location on Aberdeen. The Joint Program Executive Office for Chemical and Biological Defense, which hosted the showcase, finalized the relocation of its offices from Falls Church, Va., in September 2011 as a result of the 2005 Base Realignment and Closure mandate.

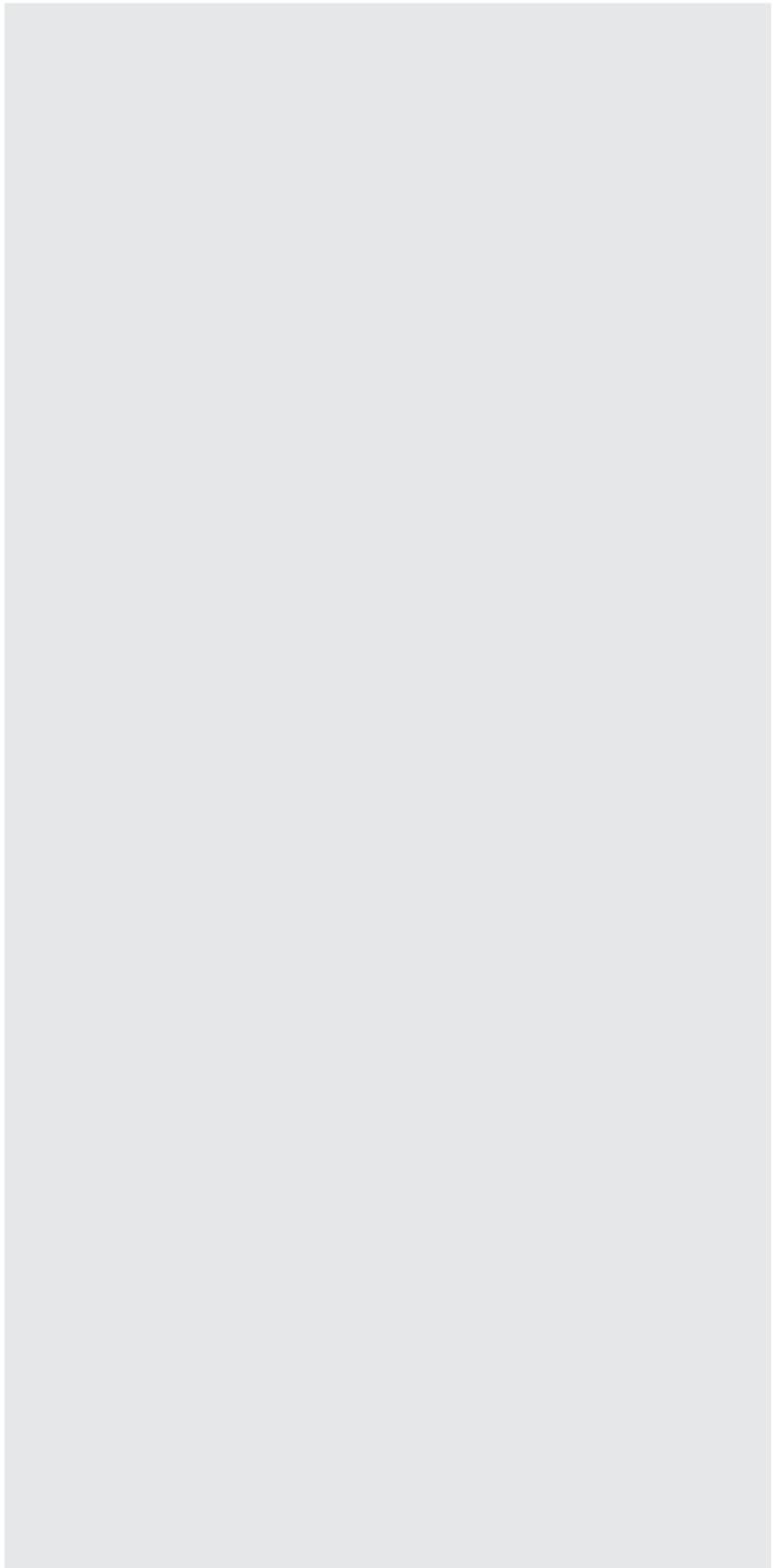
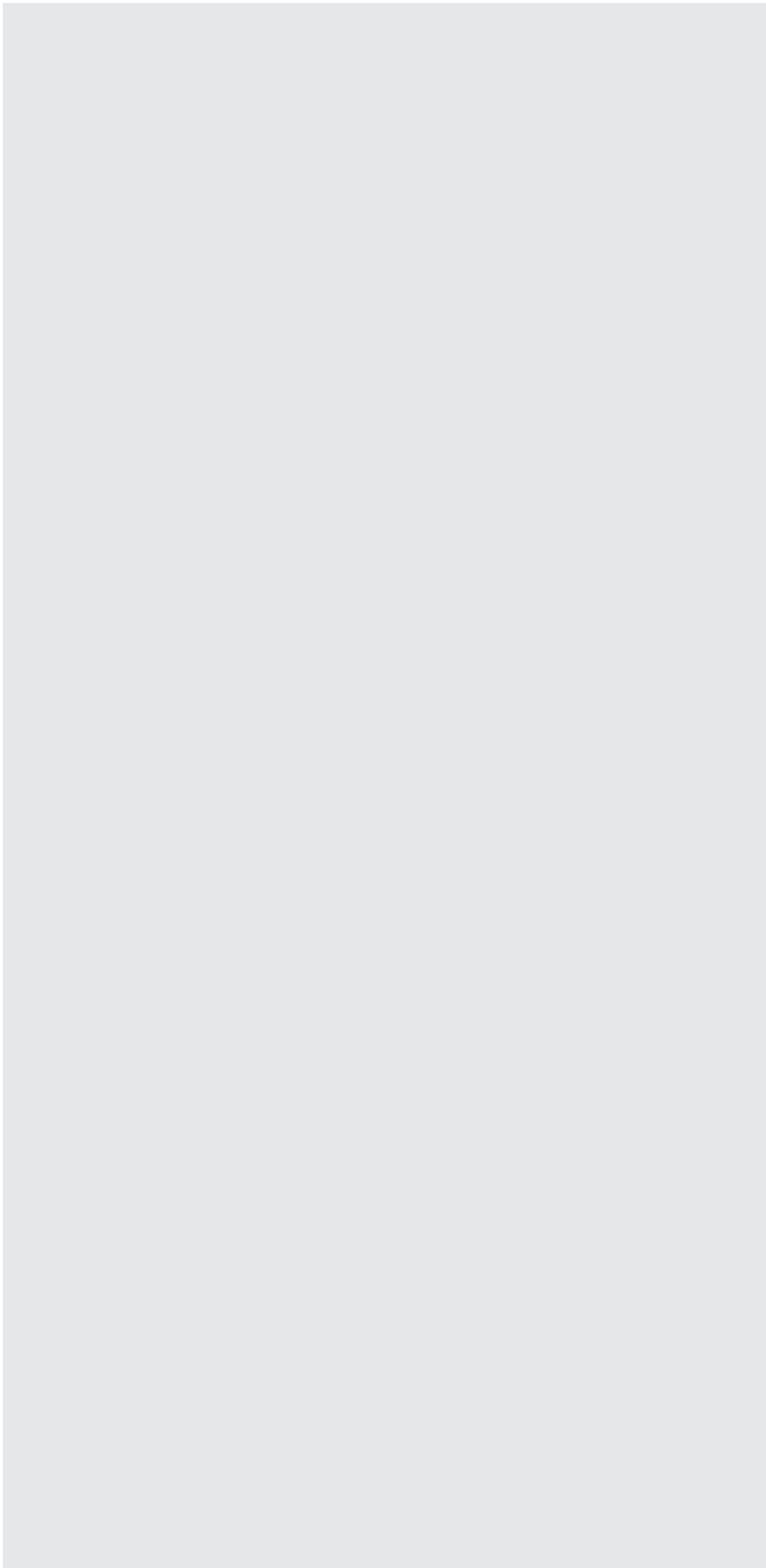
“With such a far reaching mission,

it makes sense to keep all these agencies in close contact, both geographically and collaboratively,” said Lowry Brooks, chief of Strategic Plans for the JPEO-CBD.

Obvious benefits of co-location include easier collaboration on programs and the opportunity for the workforce within the partnering organizations to build stronger professional relationships.

“Existing collaborations can only improve as the relationships and exchange of information become easier and more practical,” said Bryce.

The Edgewood Team CBRNE Exposition highlighted just how the grouping of these agencies in a central location is conducive to faster delivery of capabilities and support to the Warfighter and nation through the reduction of redundant system processes and increased communication and interaction between the various levels of product development, use, and disposal. The resulting collaboration is a more cohesive, focused, and powerful epicenter of intelligence on the best ways to respond to and prevent CBRNE threats.



# St. Barbara's heritage embraced at APG

## Community members honored, inducted into historic Orders

By **BRANDON POLLACHEK**  
PEO IEW&S Public Affairs

The Saint Barbara community officially introduced itself to Aberdeen Proving Ground as two shots were fired from a ceremonial 105mm Howitzer, lighting up the night sky outside the Top of The Bay Feb. 11.

The annual event was hosted by Col. Daniel Hughes, the System of Systems Integration director and senior officer of ballistics on APG, and recognized award recipients while signifying the first annual dinner at APG since leaving Fort Monmouth, N.J.

About 300 guests gathered to celebrate Saint Barbara's Day, the legacy and contributions of the Field Artillery community and its members, known as "Redlegs," during the ceremony.

Saint Barbara is recognized as the patron saint in time of danger from thunderstorms, fires and explosions. As a part of the ceremony, three new members of the APG community were inducted into the Honorable Order of St Barbara and two into the Artillery Order of Molly Pitcher.

The Honorable Order of Saint Barbara recognizes individuals who demonstrate the highest standards of integrity and moral character; display an outstanding degree of professional competence; serve the Army or Marine Corps' Field Artillery branch with selflessness and contribute to the promotion of the branch in ways that stand out in the eyes of the recipient's seniors, subordinates and peers.

**Michael Karwatka**, division chief for the Field Artillery Division of the Fires Evaluation Directorate, U.S. Army Evaluation Center, was honored for his career supporting the Field Artillery community in uniform and as a Department of the Army civilian. He leads a team responsible for the evaluation of more than 22 active Army acquisition programs supporting acquisition and fielding of Field Artillery systems to include the M109 Paladin family of vehicles, EQ 36 firefinder radar, AN/TPQ Lightweight Counter Mortar Radar, Excalibur projectile and AN/TMQ-52 Profiler.

**Maj. Mike Kaul**, Program Executive Office-Intelligence, Electronic Warfare & Sensors executive officer, was recognized for his support to the Artillery community by serving as an integral member of the management team providing support to the EQ-36, Q-37 radars, LCMR and Enfire programs. Previously, as the assistant product manager for the Profiler system he was instrumental in successfully fielding 106 Profilers to every active and National Guard fires brigade across the Army.



**The U.S. Army Field Artillery Association and the U.S. Army Air Defense Artillery Association maintain the Order of Saint Barbara as an honorary military society of the U.S. Army Field Artillery and the U.S. Army Air Defense Artillery. Members of both U.S. Marine Corps and U.S. Army, along with their military and civilian supporters, are eligible for membership.**

Under Kaul's leadership, Profiler reduced its logistical footprint down to one vehicle/trailer and two Soldiers resulting in an annual cost savings to field artillery of more than \$70 million a year. He further refined the Profiler concept into a software based application that could reside within the Advanced Field Artillery Tactical Data System, which resulted in significantly reduced spending by the Field Artillery.

**Thomas Wilson**, an Army veteran and expert in radar systems development, was recognized for his more than 30 years of combined experience in radar electronic warfare and communications technology. Presently serving as the vice president of Production Accounts at RC, Inc., he has been involved in developing some of the most significant systems for the Army

including the AN/TPQ-48, 49, and 50 as well as the prototype for the EQ-36.

His most significant contribution to Field Artillery was as one of the inventors of the LCMR system, which received one of the Army's Top 10 greatest inventions awards in 2004 and is currently deployed worldwide. His work with military leaders and various divisions of the Army continues to contribute to finding solutions for the field artillery.

The Artillery Order of Molly Pitcher recognizes women who have voluntarily and significantly contributed to the improvement of the artillery community and is named after Margaret Hayes. Hayes distinguished herself during the Battle of Monmouth when, after her husband fell as a casualty, she carried the water bucket used to swab the bore of the field piece, earning her the nickname Molly Pitcher.

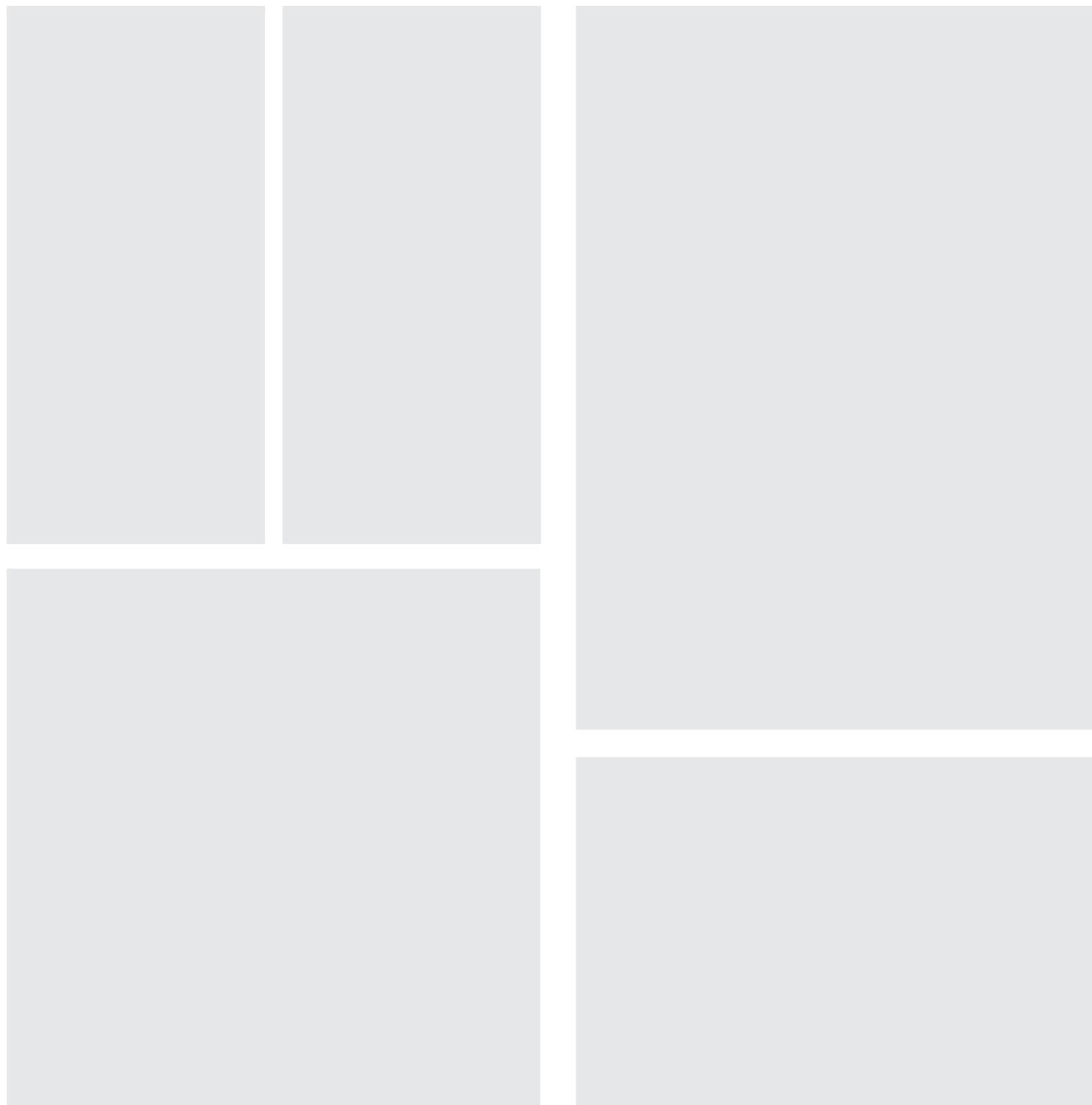
**Kathleen Hughes** was inducted for her dedication and extensive volunteer service to Field Artillery over the past 29 years. Her supporting role began with the Soldiers and Families of the 1st Battalion, 2nd Field Artillery in Baumholder, Germany, in 1983. It continued while running multiple Family support networks during Operations Desert Shield and Storm, Joint Endeavor, Enduring Freedom and Iraqi Freedom.

Hughes has been a model of the tireless and dedicated volunteer, according to the statement read during the celebration. With her continued work supporting Redlegs and their Families worldwide, Hughes has made her presence known as a supporter of the artillery. During the past three decades she has dedicated her time to helping artillerymen and their Families be a part of the artillery Family.

**Dana Mcvey** was also honored. Mcvey has lent her dedication to Field Artillery throughout the last eight years as the lead secretary for the Fires Evaluation Directorate, AEC, where she served as a critical support element to the development, assessment and fielding of weapon systems supporting the Field Artillery community in current and future operations across the globe.

She demonstrated her selfless service by continuing to provide outstanding service to FED while performing double duty as the acting secretary for the AEC technical director and director in addition to mentoring and supporting other directorates' secretaries.

The community is encouraged to mark their calendars for next year's celebration, scheduled Feb. 9, 2013.



# MARK YOUR CALENDAR

## TODAY MOAA MEETING

Susquehanna Chapter, Military Officer Association of America invites all APG military officers—all services and statuses—and their spouses to a dinner at 6:15 p.m. at The Top of the Bay. Senator Nancy Jacobs will be the guest speaker. Contact (ret.) Maj. Brian Lantz, at brianlantz6@comcast.net or 410-939-0648 for more information and reservations.

## FRIDAY MARCH 23 WOMEN IN BLOOM DEDICATION CEREMONY

A March 23 dedication ceremony will be held for Women in Bloom, a memorial garden that recognized military and civilian women's achievements in research and development at APG since its founding in 1917. The ceremony will begin at 2:30 p.m. in the memorial garden next to the garrison headquarters, Bldg. 305. The ceremony's guest speakers will include Winifred "Wink" Jonas, a highly skilled mathematician and one of the first programmers of Electronic Numerical Integrator and Computer. The ENIAC was the world's first general purpose electronic computer, brought to APG's U.S. Army Ballistic Research Laboratory in 1946.

## EAT AND BE MERRY AT MURDER MYSTERY COMEDY

You're invited to the wedding of Brenda and Edward at the APG recreation center ballroom at 7 p.m. The reception starts on a sour note when the bride and groom arrive late due to a flat tire. Chaos quickly ensues. Advance tickets are \$25 and \$20 for active duty. Tickets cost \$30 at the door. Ages 6-12 are \$12.50; 6 and under free. Contains adult content. Call 410-278-4011/4907 or 410-436-2713 or visit the APG North or South recreation centers.

## CYSS FAIRY DISH GARDEN WORKSHOP

Learn how to create a fairy dish garden from 5:30-7 p.m. in the Edgewood Youth Center.

Children ages 5 and up will be taught to create a path through plants; make a garden bridge or gate; and sculpt garden mushrooms, creatures or a fairy house. This workshop will show children to create a wonderful gift, 4-H project or entry in the county fair.

This is a parent and youth activity. All youth must be accompanied by a parent or guardian to participate. The workshop is free for CYSS members and \$5 for the public. Please visit the Edgewood Youth Center to reserve a spot in the class. For more information, call 410-436-2862/2098.

## SATURDAY MARCH 24 ANNUAL VOLUNTEER EXPO

The Harford County Department of Community Services Volunteer Harford will host the 4th Annual Volunteer Expo from 9 a.m. to noon at Patterson Mill Middle-High School, 85 Patterson Mill Road in Bel Air.

The expo will feature numerous vendors looking for volunteers; the Expo provides the perfect opportunity to hear from and learn about various area organizations and agencies regarding available volunteer positions. It is free and open to the public; no registration required. For more information, call 410-638-4444 or visit [www.volunteerharford.org](http://www.volunteerharford.org).

## SUMMER YOUTH JOB FAIR

APG's HIRED program will attend the Summer Youth Job Fair from 8:30-11:30 a.m. in the Aberdeen Workforce Center. Youth ages 15-18 are encouraged to attend and dress appropriately for an interview. Transportation will depart the Aberdeen Youth Services at 8:30 a.m. and return at 10:30 a.m. Register at the CYSS Admin. Bldg. 2503 Central Registration Offices in rooms 210 or 211. Walk-in registration is 7:30-10:30 a.m.; or call for an appointment at 410-278-7479/7571.

For more information, please contact jay.a.mckinney.naf@mail.mil or call 410-278-3250.

## KEYSTONE CLUB ORIENTATION & PAINT BALL TRIP

The Keystone Club Orientation is March 24 from 11 a.m. to 5 p.m. in the Aberdeen Youth Services Bldg. 2522. Keystone Club is the Boys and Girls Club of America's premier teen leadership program. Founded in 1964, Keystone meets teens' vitally important

needs for positive group experiences. With the guidance of the Club's staff, opportunities are provided for teens to make leadership decisions, engage in academic and career experiences and serve others. Topics for this meeting will include, Keystone orientation, tour of the youth services, ideas for teen activities, free lunch and snack and paintball trip.

Register at the CYSS Administration Bldg 2503, Central Registration Offices Rooms 210 or 211. Walk-in registration is 7:30-10:30 a.m.; or call for an appointment at 410-278-7479/7571.

For more information, please contact jay.a.mckinney.naf@mail.mil or call 410-278-3250.

## SUNDAY MARCH 25 MEN'S MIXER AT RUGGLES

Men can sign up now for the Men's Mixer at Ruggles Golf Course beginning at 7 a.m. The mixer includes 18 holes of golf with cart, barbecue buffet lunch and awards for the winners. The day will start with coffee and range balls. Shotgun is 9 a.m. Two best balls of four. Sign up individually, then the pro shop will pair up teams. To register or for info, call 410-278-4794.

## MONDAY MARCH 26 DEADLINE APPROACHING FOR VOLLEYBALL SIGN UP

APG Coed Volleyball League sign-up for the April 9-May 17 season is open through March 26. Registration is \$150 per team, \$20 for civilians on military teams, and free for active-duty military.

Fees are due before the season starts. For information, e-mail usarmy.APG.imcom.fmwrc.list.usag-mwr-sports@mail.mil or call the Aberdeen Athletic Center at 410-278-7933/7934 or Hoyle Gym at 410-436-3375/7134.

## CHORAL ENSEMBLE

If you are a talented singer or musician, MWR is seeking members for the all-volunteer APG Choral Ensemble. The group's first meeting is 6 p.m. in the APG North recreation center. Call 410-278-3854.

## TUESDAY MARCH 27 TOP SECRET ROSIES MARCH SCREENINGS

A PBS documentary, "Top Secret Rosies: The Female Computers of WW2," will be screened free of charge during at 11 a.m. at the APG North post theater.

## MARCH 27 (& APRIL 4) BUNNY HOP FUN RUNS

The APG community is invited to participate in the annual APG North and South (Edgewood) Bunny Hop Fun Runs March 27 and April 4, respectively. Runs will begin at 3 p.m. Runners and their Families are also invited to attend the Spring Festivals immediately following the Runs. Participants may also purchase a Fun Run shirt designed for the occasion. Shirts are \$12 when purchased before race day and \$15 on race day. Please make sure to register for a run before March 5. To register or purchase a Fun Run shirt, visit the recreation centers or [www.apgmwr.com/events](http://www.apgmwr.com/events). Open to all DOD cardholders and Families. For information, call 410-278-4011 or 410-436-2713.

## MARCH 27 (& APRIL 4) SPRING FESTIVALS

The annual spring festivals will be held at APG North and South March 27 and April 4, respectively. The APG North Festival will be held in the Aberdeen Recreation Center and the APG South (Edgewood) Festival will be held in the Starke Recreation Center. Both events begin at 4:30 p.m. Entertainment for the entire Family includes photos with the Easter Bunny, children's crafts, live entertainment, face paintings, balloon sculptures, tattoos, food vendors, and Easter basket decorating contests. Visit [www.apgmwr.com/events.html](http://www.apgmwr.com/events.html) for info.

## THURSDAY MARCH 29 NATURE STORY TIME

Eden Mill Nature Center offers Nature Story Time at 11 a.m. Everyone who enjoy children's literature is welcome. Enjoy a children's story and craft related to a theme about nature. Pre-registration is required by calling

410-836-3050. Email [edenmillnaturecenter@gmail.org](mailto:edenmillnaturecenter@gmail.org) for more information.

## MWR TRAVEL FAIR

Are you planning a vacation this year? Let MWR help plan this year's travel plans at the 2012 Travel Fair 10 a.m. to 2 p.m. in the APG North recreation center ballroom. The fair is open to DoD cardholders and Families. Reps from local attractions will be present to answer questions.

Enter to win door prizes including hotel stays, bus trips, theme park tickets, gift certificates and more. Complimentary light refreshments will be provided. For information, call 410-278-4011/4907.

## CAREER FAIR SET FOR VETS AND SPOUSES

A career fair hiring event is set from 11 a.m. to 3 p.m. for veterans and military spouses at Lincoln Financial Field, 1020 Pattison Ave., Philadelphia, PA 19148. The event will allow participants to network with veteran-friendly organizations that will be on site with employment, entrepreneurial, and educational opportunities. For information or to register, visit <https://events.recruitmilitary.com/events/philadelphia-opportunity-expo-march-29-2012>. Read more about the expo at <http://www.prlog.org/11813346.html>.

## RECRUIT MILITARY HIRING EVENT

The U.S. Chamber of Commerce and RecruitMilitary will collaborate on a hiring event for military veterans in Philadelphia at Lincoln Financial Field, home of the Philadelphia Eagle. This event, the Hiring Our Heroes/RecruitMilitary Veteran Opportunity Expo, will be part of a nationwide initiative to increase the hiring of vets by producing special career fair hiring events. The event runs 11 a.m. - 3 p.m. The event welcomes vets who already have civilian work experience, troops transitioning from active duty to civilian life, National Guard and reserve troops, military spouses and Family members.

## FRIDAY MARCH 30 SOUTHERN PRECINCT DEDICATION

Sheriff L. Jesse Bane cordially invites the community to the building dedication of the new Southern Precinct Friday, March 30, 10 a.m. - 11:30 a.m. on the corner of Route 152 and Route 40, 1305 Pulaski Hwy in Joppa. Light refreshments will be served and precinct tours will be conducted for attendees. The Harford County Sheriff's Office will host tours of the new precinct for the public Saturday, March 31 and Sunday, April 1, 10 a.m. - 6 p.m.

## WEDNESDAY APRIL 4 SEND YOUR REPTO TRANSPORTATION MEETING

The Transportation Demand Management Working Group will hold an April 4 meeting from 10 a.m. to noon in Bldg. 4304, third floor conference room.

The purpose of the meeting is to identify and promote ideas that will reduce traffic on local roads during peak hours. These alternatives include such methods as mass transit, car/van pooling, flex hours, telework, etc. APG organizations are encouraged to send a representative. Contact Carroll Sparwasser at 410-436-8854 or [carroll.g.sparwasser.civ@mail.mil](mailto:carroll.g.sparwasser.civ@mail.mil) to RSVP or for more information.

## TUESDAY APRIL 10 ACQUISITION SYMPOSIUM

The Defense Acquisition University will host its annual Acquisition Community Symposium Tuesday, April 10, at its Fort Belvoir campus. The theme this year is: "Understanding the Nuts and Bolts of Acquiring Services." The event includes sessions on services portfolios; services acquisition tools and techniques; plus top-level DoD and industry panels on needed changes in services acquisition policy and processes. The day concludes with a dinner honoring the 2012 Acker Award winner and the newest members of the DAU Hall of Fame. All attendees must register through the ACS website at [https://www.dauaa.org/dauaa\\_site/Symposium2012/12Registration20.asp](https://www.dauaa.org/dauaa_site/Symposium2012/12Registration20.asp).

## MONDAY APRIL 16 SATELLITE COMMO COURSE

The APG community is invited to register and attend a "Satellite Communications: Systems, Technology, and Applications" course given by Dr. Arthur Einhorn. The course will benefit engineers, technicians, managers, planners, as well as marketing, contracts, and procurement specialists who need a better understanding of satellite communications technology and applications. The course is scheduled from 8:30 a.m. to 4:30 p.m. The cost is \$1,350 per student. To register, download the application at <http://www.satellitecourse.com> and email it to [info@tdicourses.com](mailto:info@tdicourses.com) and send the \$1,350 check or money order to TDI 140 North Vista Street, Los Angeles, CA 90036, or provide credit card information on the registration form by April 6. For more information, call Larry Neuton at 323-496-0397.

## ONGOING SATURDAY CRITTER FEEDING

Eden Mill Nature Center offers these feedings on Saturdays through June, at 1 p.m. for Families. Join the staff in the nature center as they feed the critters. Take a turn feeding one of the turtles or a snake. Space is limited to 10 participants, so pre-register early by calling 410-836-3050 or email [edenmillnaturecenter@gmail.com](mailto:edenmillnaturecenter@gmail.com). Visit [www.edenmill.org](http://www.edenmill.org) for information.

## UPCOMING INSTALLATION TOWN HALL

APG is seeking input on its quarterly Installation Town Hall (ITH) meeting, formerly the Community Action Council meeting. The garrison-sponsored meetings give community members a chance to voice their concerns, offer suggestions and get answers from each directorate. The garrison is seeking the following feedback:

1. What time would you like to attend ITH meetings?
2. What topics would you like to see addressed?
3. How can leadership modify the meetings to boost participation?

Email your answers to [claudette.e.murray.civ@mail.mil](mailto:claudette.e.murray.civ@mail.mil). The subject line should read INSTALLATION TOWN HALL

## APPLY NOW FOR EDUCATION GRANTS

Applications for the 2012 Educational Grant for spouses of active-duty service members are available at [www.ourfamilyfoundation.org](http://www.ourfamilyfoundation.org). The foundation supports military Families in the pursuit of higher education and has awarded more than \$3 million since 2006.

Applications must be submitted by May 17. Each year, 20 educational grants are given in amounts up to \$5,000 for the spouses of active-duty service members at Forts Meade, Bragg, Polk, Rucker, Riley, Sill, and Aberdeen Proving Ground.

Applicants may be in any stage of the educational process and awards are to be used for the 2012-13 academic year. Recipients of a grant will be notified by July 2.

"We are honored to help military families reach their educational goals, and we hope these grants help the spouses of active-duty service members to reach higher," said Maria Montalvo, Executive Director.

Visit the website for more information about the application process, or call 401-228-2836.



**MORE ONLINE**  
More events can be seen at [www.apgnews.apg.army.mil/calendar](http://www.apgnews.apg.army.mil/calendar).

## CORRECTION

Due to a reporter error, a photo published in the March 15 issue of the APG News misidentified one of the employees in the picture. The employee was incorrectly identified as Frank Gillan of the Intelligence and Information Warfare Directorate. The correct photo of Gillan has been posted in the online version.

# APG organizations bring STEM outreach to Morgan State University



(From right) ATC chemist Ryan Bearekman looks on as Gabriella Diaz, a 7th grader from Gholson Middle School in Prince George's County, tries her hand at the field sampling analysis display.

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

Hundreds of students from Maryland schools kicked off the start of the 2012 Maryland Junior Science and Humanities Symposium at Morgan State University March 8.

The three-day event connects students with science, technology, engineering and mathematics (STEM) opportunities through hands-on Army technology demonstrations, a TriMathAlon competition and professional seminars.

On day one, APG organization representatives set up exhibits and interacted with hundreds of students, answering questions about thermal imaging technology, pyrotechnics, smart phone capabilities, armor materials and more.

A big draw was the STEM Asset Vehicle. Built by the U.S. Army Research, Development and Engineering Command, the vehicle is the Army's latest STEM recruiting tool. Sgts. 1st Class Matthew Oliver and Daniel Adam from the U.S. Army Accessions Support Brigade's Mobile Exhibit Company at Fort Knox, Ky., drive the vehicle around the country for STEM education outreach events.

"It's basically three rooms offering different scenarios based on Army research and development," Oliver said.

Adam wore a Future Soldier Suit, a "Robocop-like plastic suit of armor."

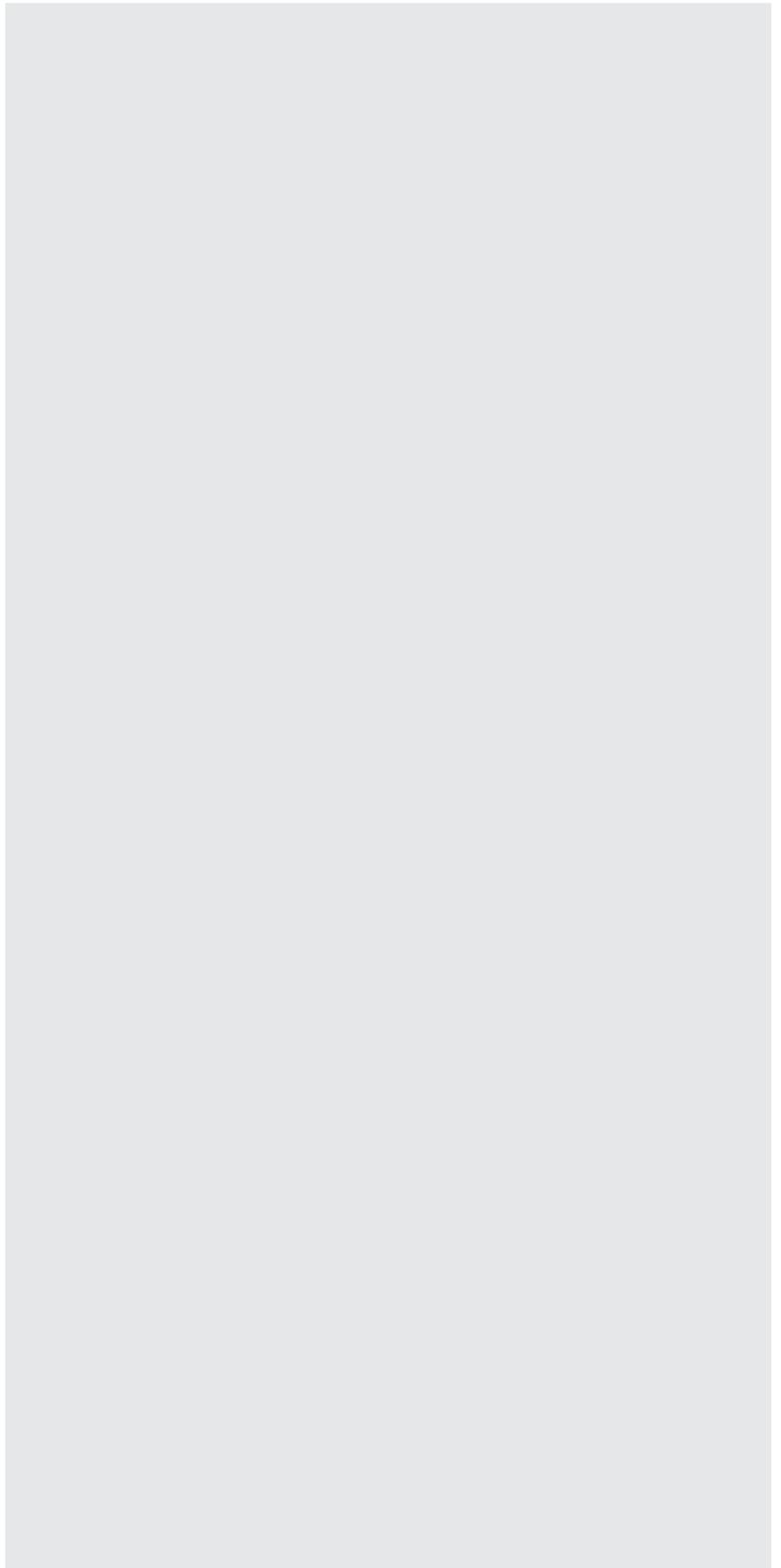
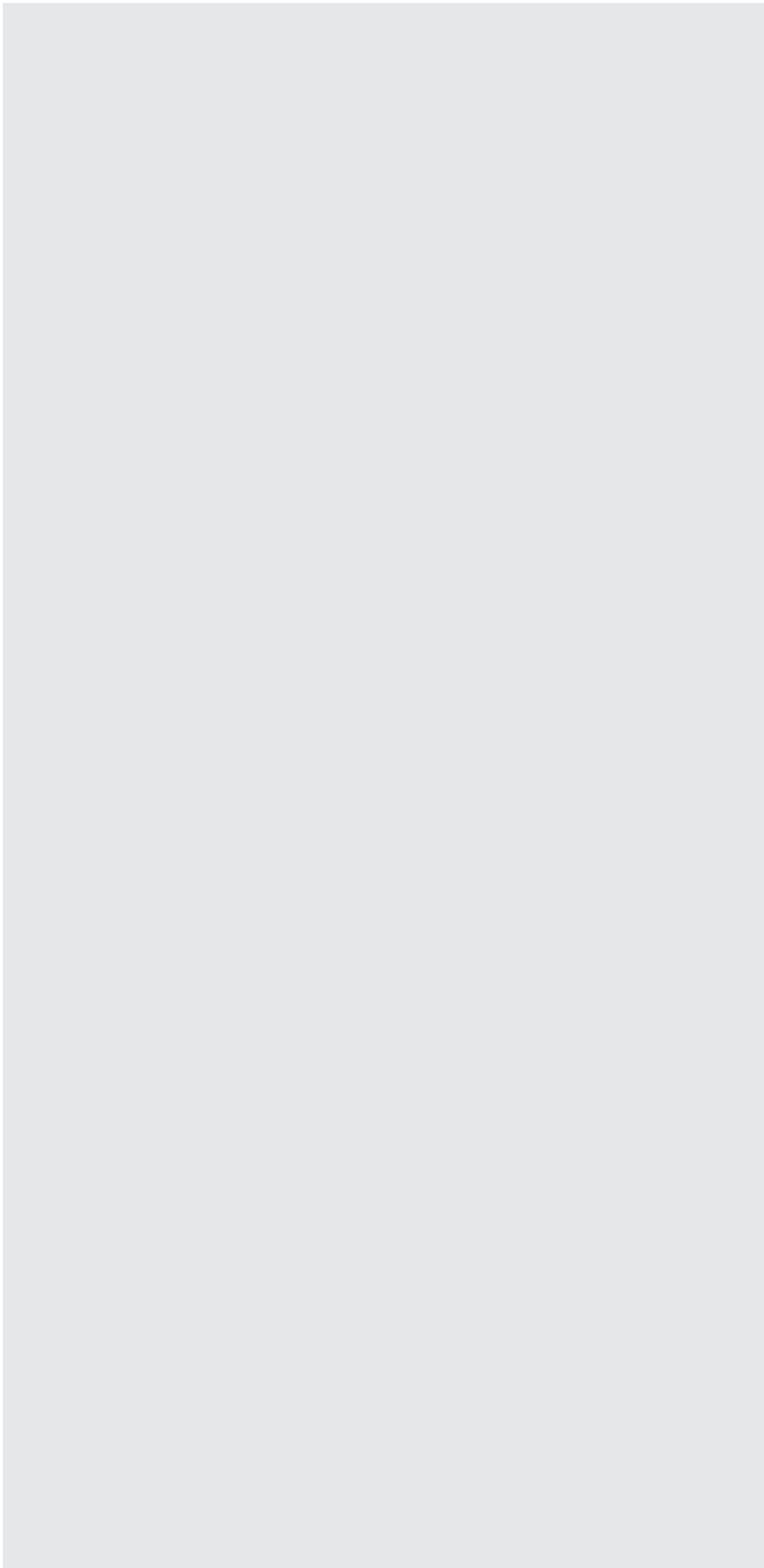
"It's a mock up uniform of what Soldiers could actually look like in about 20 years," he said.

APG organization displays included the U.S. Army's Communications-Electronics Command; Test and Evaluation Command; Research, Development and Engineering Command; Edgewood Chemical Biological Center; Army Research Laboratory; the garrison's Environmental Division and APG Dental Activity.

The symposium moved to the Baltimore Marriott in Hunt Valley March 9 and 10. Engineers and scientists from the Communications-Electronics Research, Development and Engineering Center, ARL and ECBC, judged student presentations for potential participation in the national JSHS Competition, May 2 - 6 in Bethesda.



Sgt. 1st Class Daniel Adam of the U.S. Army Accessions Support Brigade's Mobile Exhibit Company at Fort Knox, Ky., attracts a lot of attention from students in his Future Soldier Suit.



# Feedback positive to CERDEC changes

Continued from Page 1

have well-defined areas, skill sets, priorities and customers, but we as an organization will be able to connect the dots between these so we're putting together overall capabilities. This will best posture our organization to add value within each competency and across each competency as a complete package."

"As an Army science and technology/RD&E organization, we provide value added in both innovating and implementing integrated capabilities, whether the various individual components are ours or those developed by other organizations. We have the expertise to bring all the pieces together to provide integrated capabilities that will solve Army-unique challenges," Willison said.

Reaction within the directorate has been positive, with personnel recognizing the changes as a more effective path forward, Willison said.

"We're catching people on the heels of several significant changes – being relocated as a result of BRAC, new leadership, shifting operational priori-

**“We’re catching people on the heels of several significant changes – being relocated as a result of BRAC, new leadership, shifting operational priorities, and a current climate of constrained resources across the Army – but this change will help us adapt and put us in a healthier position going forward. We’ll be more uniquely and solidly postured in our various core competencies. In turn, it should be clear to our stakeholders who to go to for what, what our priorities are in each division and where we think we can add value. This is good for the Army and for the organization.”**

**John Willison**

CP&I Director, member of the Senior Executive Service

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to go to for what, what our priorities are in each division and where we think we can add value. This is good for the Army and for the organization," he said.

Common Access Card holders can visit [https://www.milsuite.mil/wiki/Command\\_Power\\_&\\_Integration\\_](https://www.milsuite.mil/wiki/Command_Power_&_Integration_)

(CP&I)\_Directorate to learn more about CP&I. To view the directorate's divisions and branches, visit [https://www.milsuite.mil/w/images/c/cb/CPI\\_OrgChart\\_March2012-2.png](https://www.milsuite.mil/w/images/c/cb/CPI_OrgChart_March2012-2.png). To watch video clips from CP&I town hall on milTube, visit <https://www.milsuite.mil/video/1128>.

# Improving energy security is critical

Continued from Page 1

evaluate, repurpose and reuse energy as well as energy recovery."

Presently, the Army consumes 2.5 million megawatt hours annually.

In addition to energy conservation, installations will strive to establish alternative forms of energy that will allow them to "island" or continue to operate should the power grid fail.

"We understand there's a need to enhance our energy security because it's operationally necessary, financially prudent and critical to our mission," Hammack said. "We know that power grids are increasingly vulnerable and expose Army operations to risk."

She noted those risks include terrorist attacks as well as natural disasters such as drought and forest-fire conditions in the west (which some installations are already facing) and unstable weather to include tornadoes.

Hammack said the Army's risk-mitigation strategy involves onsite renewable-energy production and it must be done in a fiscally responsible manner, which is where the Energy Initiatives Task Force, or EITF, comes into play.

The EITF serves as the central managing office to plan and execute large-scale renewable energy projects of greater

**“We understand there’s a need to enhance our energy security. We know that power grids are increasingly vulnerable and expose Army operations to risk.”**

**Katherine Hammack**

Assistant secretary of the Army for Installations, Energy & Environment

than 10 megawatts (roughly enough to power 30,000 homes) on Army installations, which will be accomplished by leveraging private-sector financing.

"The EITF was tasked to develop a process that is clear, consistent and transparent so that we can provide the private sector with a consistent environment to engage with the Army which will allow EITF projects to maximize return on investments for both the Army and industry," Hammack said.

EITF Executive Director John Lushetsky said that since the EITF began operating six months ago, it has developed standard approaches and criteria to evaluate different project opportunities to make the business of large-scale, renewable-energy development much

more predictable and routine.

"We have screened more than 180 Army and National Guard installations and are currently engaged with 15 different installations at various levels of due diligence," he said. "For each of these projects, the EITF reviews a number of critical project success factors that include installation security and mission impacts, expected life-cycle economics, real-estate access, utility regulations, systems integration, environmental permitting and acquisition approach."

A renewable-energy project guide will be issued for comment later in the spring Lushetsky said.

The task force has been working closely with the U.S. Corps of Engi-

neers to develop a request for proposal under what it calls the Multiple Award Order Contract, or MATOC. The MATOC provides a two-step process. In the first step, companies submit initial proposals and qualifications that are not project-specific.

"This will allow us to select who we think are broadly qualified companies to bid on solar, wind, biomass -- waste to energy -- as well as geothermal projects," Hammack said. "Once we've established that qualified list, then we'll be in a position as projects are qualified by the EITF to issue task orders."

The draft RFP for the MATOC is out for public comment until March 24. Lushetsky said in the last six months the EITF has had requests to meet with some 195 companies and financial institutions, and met with 40 to outline the EITF approach and plans.

The EITF plans to have a summit in May to meet with industry and discuss the renewable-energy development guide as well as specific projects.

"Long term, the Army is also interested in exploring the role of micro grids and energy storage as those technologies become better defined and more affordable," Lushetsky said.

# Weekend festivities kick off golf season

Continued from Page 1

manager. "We have a lot of improvements to showcase, from many new items in the Pro Shop to a new green/hole layout and a first class teaching and practice facility."

The weekend will kick off Friday at 2 p.m. Bond said representatives from a national golf products company will be on hand to help customers select the right club for their individual swing, body type and approach from 2-6 p.m. The event called Friday Night Fit will allow guests to test out different clubs, shafts and build a custom golf club that is just right for them.

"Whether they are beginners or advanced players, this is a great opportunity for golfers to improve their swing and purchase a better club," said Bond. "If you're new to the sport, the benefits are obviously invaluable; but this is a huge service, even for the advanced players who want to improve their technique."

Also on Friday, representatives from one of the nation's top energy drink producer will hand out free samples from 2-4 p.m. Attendees can also win prizes and trophies during the putting contests. An all-you-can-eat fish and chip meal for \$9.95 will be served from 4 - 7 p.m.

"This is one of our new menu items, and it has really been a hit with our patrons," Bond said. "Guests can also relax on the patio to live entertainment during dinner."

The fun continues Saturday, when Ruggles opens up the new layout for the first time. The lowest score from each tee box will receive a "Course Record" plaque. Also on Saturday at 9 a.m., Foot Joy will assist guests interested in purchasing custom golf shoes. Customers can view all the shoes they offer, find one they like and order it at a special reopening price. Attendees can also design and order custom golf shoes—My Joys—from Foot Joy.

"If guests want to order shoes with a Baltimore Ravens logo or with different colors, they can be as creative as they want," Bond said.

The weekend celebration, hosted by the installation's Family, Morale and Welfare and Recreation and Ruggles, will culminate Sunday with a Family Fun Day.

"This is truly a golfer's weekend—a time for everyone to come together and have fun, prep for the new season, meet other people in the community, and enjoy the beautiful spring weather," said Bond.

For more information, call 410-278-9452.

## TIMELINE OF EVENTS

### FRIDAY, APRIL 13 – FRIDAY NIGHT FIT

- 2-4 p.m. – Free samples and golf balls from Rockstar Energy and Nike
- 2-6 p.m. – Callaway Company will help guests select golf clubs
- 4-7 p.m. – Fish and chip dinner, live entertainment on patio

### SATURDAY, APRIL 14 – COURSE RECORD DAY

- 7 a.m. – New breakfast menu launches
- 7 a.m. - New tees, driving range, greens open
- 9 a.m. – Foot Joy will assist customers with shoe orders

### SUNDAY, APRIL 15 – FUN DAY

- 7 a.m. until dark – Invite friends and Family to come out and have fun

# BRAC-inspired recycling saving money

Continued from Page 1

Surveillance and Reconnaissance (C4ISR's) advance teams at the former Eagle Point Office complex.

The old furniture – mainly work stations - will be put to good use when the ECBC Advanced, Design and Manufacture (ADM) Division moves into Downer Hall, the sprawling complex that belonged to the Ordnance Mechanical Maintenance School's wheel, track and automotive training division before it was relocated to Fort Lee, Va. under Base Realignment and Closure.

Another BRAC-inspired re-purposing occurred when the ECBC employees at the Program Manager for NBC-CA (Nuclear, Chemical, Biological – Contamination Avoidance) moved from the

**“We knew we were getting Downer Hall so we took 90 work stations and furniture for four offices. Workstations cost from \$5,000 to \$6,000 apiece and we got 90 of them.”**

**Douglas Celmer**

ECBC Engineering Directorate

4400 block to the newly constructed and furnished Bldg. E2800.

Douglas Celmer, a facilities engineer with the ECBC Engineering Directorate, said ECBC utilized an existing facilities and logistics support contract to move work stations, file cabinets, book shelves

and other furniture to employees at other ECBC buildings to avoid purchasing new furniture, to add a needed storage or work capacity to existing office sets, and to upgrade dated sets.

"We knew we were getting Downer Hall so we took 90 work stations and fur-

niture for four offices," Celmer said, adding that the items will have to be cleaned and reassembled and that some stations have already been recreated into unusual three-person, V-shaped arrangements.

"It's less traditional and more creative for their use," he said.

The re-purposing of the furniture from the 1500-square foot office complex has saved ECBC money, improved work spaces, and eliminated the potential disposal of the furniture, Celmer said.

"Workstations cost from \$5,000 to \$6,000 apiece and we got 90 of them," he said.

About 100 personnel from the ECBC ADM Engineering Directorate are set to relocate into the new office space in Downer Hall.

# ECBC develops real sci-fi technologies to counter emerging chem, bio threats

Dr. Calvin Chue helps advance innovative technologies to protect troops against chemical, biological threats

ECBC news release

Focused to strengthen our Joint Force as they face emerging chemical and biological (CB) threats, the U.S. Army Edgewood Chemical Biological Center (ECBC) is developing a highly skilled and adaptable technical workforce that generates and delivers some of the most cutting-edge solutions to our service members.

One of ECBC's most recent additions to its BioSciences Division, research biologist Dr. Calvin Chue specializes in microbial characterization and detection, and previously served in a spectrum of different roles across the CB defense community.

Equipped with 16 years of experience as a laboratory technician, principal investigator, manager and science advisor to executive leadership, he is an "exceptional fit to communicate across all levels" within the CB defense arena and to achieve high results in his multi-faceted role at ECBC, said ECBC BioSciences Division Chief Dr. Peter Emanuel.

Chue is responsible for generating new ideas, pursuing collaboration and integrating workflows to help ensure troops receive the CB detection equipment they need when in harm's way, and in a timely and cost-effective manner.

"The main reason I joined ECBC was because there is such a diversity of skills and capabilities available in one place," Chue said. "Having everything available in one location ensures the integration of a seamless end-to-end research and development (R&D) process for any kind of chemical biological detector."

"Here at ECBC, we have the capability to conduct the research and turn our results into a practical, life-saving tool for the brave men and women that serve our country. There is no other place where this can be done."

**“The main reason I joined ECBC was because there is such a diversity of skills and capabilities available in one place. Having everything available in one location ensures the integration of a seamless end-to-end research and development (R&D) process for any kind of chemical biological detector.”**



Photo by Tom Faulkner

ECBC new hire Research Biologist Dr. Calvin Chue helps advance innovative technologies to protect Armed Forces against chemical and biological threats.

ity to conduct the research and turn our results into a practical, life-saving tool for the brave men and women that serve our country. There is no other place where this can be done."

Chue reiterates the benefit of being able to take a holistic R&D approach in one place, as there is no value in a device if you cannot get it into the field in a safe way. He uses robots as an example.

"They have to be designed to endure battlefield conditions and survive decontamination cycles," he said. "We can do the basic and applied research as well as the designing, building and testing. But, we can also help with the packaging and transportation. We can basically do the whole nine yards."

But he also describes the current environment as one where we can only solve problems by working together —across the government, with aca-

demia and private industry and even internationally and quotes a former colleague from the National Interagency Confederation for Biological Research, (ret.) Col. Nancy L. Vause.

"If you want to make incremental progress, compete; if you want to make exponential progress, collaborate," she said.

During the short time Chue has been at ECBC, he has helped to advance several R&D projects that can make all the difference to those facing threats on the front lines.

### What if we could use artificial organs to test toxicants?

Taking cell biology into a new direction, Chue is working with ECBC Chief Scientist Dr. Harry Salem to explore a territory that exceeds what has been imaginable only a few years ago. ECBC has partnered with the Wake Forest Institute for Regenerative Medicine, Harvard University, Morgan State University and Johns Hopkins University to propose the development of three-dimensional printed artificial human organ analogues.

This consortium plans to replicate the human immunological condition artificially to test how four miniaturized organs respond to biological and chemical agents --individually or in combination. The solution could provide answers to questions like 'What happens when the heart is exposed to chemical agent?' and 'What chemical signals does a viral infection send downstream to other organs that affect the overall system?'

The project is still in its proposal phase, but represents a prime example of the break-through research areas that ECBC is pursuing to fuse engineering and biology.

### Detecting CB threats on the go — ECBC is working on 'an app' for that

Chue has also been involved in the development of Smartphone-based technologies capable of detecting CB threats, an effort that is funded by the Defense Threat and Reduction Agency and led by Tricia Buckley at ECBC.

The BioSciences team is conducting the basic and applied research for the first of a suite of Smartphone modules that would allow service members to perform CB testing and on-site diagnostics in the field.

Simultaneously, the Center's Advanced Design and Manufacturing Team is designing the user interface for the computational platform. When service members are confronted with an unknown or suspicious sample, Smartphone modules could help identify different CB threats.

In addition to on-the-spot answers, this technology can send results to a command post or a laboratory for more complex analysis. Chue's future vision is to leverage the research and development of this solution for the potential creation of hand-held Smartphone devices that can conduct genome sequencing in the theatre to support public health and environmental biosurveillance missions.

"Our main goal is to provide our men and women in uniform the best tools possible, and using a centralized portable platform for CB detection brings us one step closer to achieving that goal."

### Educate to Innovate

Another strategic approach that Chue strongly believes in—to maintain America's global competitiveness and national security—is effective outreach that excites future generations about science, technology, engineering and mathematics (STEM) disciplines and career pathways.

He has already started to infuse his talent into the center's educational outreach efforts in support of Joppatowne High School's Homeland Security and Emergency Preparedness Program.

According to Chue, it is important that we rekindle the spirit of creative and critical thinking in our education system.

"As scientists we bring those skills to the table, and it is our responsibility to help ensure we grow our ranks of future scientists and engineers to remain technologically superior as a nation."

For more information about ECBC, visit <http://www.ecbc.army.mil/>.

## Community invited to Women in Bloom

Continued from Page 1

Kaltenbacher, and was made possible with the help of a DoD Legacy grant for National Public Lands Day.

Kaltenbacher said the monument and native plant pollinator garden were designed to pay tribute to women's intellectual achievements at APG including the ENIAC pioneers who paved the way for the female engineers, scientists and technicians of today.

"We encourage everyone to attend and celebrate the achievements of APG's women in defense as we dedicate this memorial garden," Kaltenbacher said. "We are thrilled that the Honorable Katherine Hammack recognizes the importance of this memorial—that it is the first of its kind in the Army—and is taking time from her busy schedule to join us." Seating is limited. For more information or to RSVP, contact Kaltenbacher at 410-278-3775 or [teresa.a.kaltenbacher.civ@mail.mil](mailto:teresa.a.kaltenbacher.civ@mail.mil) or [DeRoia@deidre.m.deroia.civ@mail.mil](mailto:DeRoia@deidre.m.deroia.civ@mail.mil).

### The Women of ENIAC

Excerpt from "50 Years of Army Computing: From ENIAC to MSRC" by Thomas J. Bergin

The Ballistic Research Laboratory of the Ordnance Department, established in 1938, was charged to produce artillery-firing tables, the settings used for different weapons under varied conditions for target accuracy. Especially in wartime, firing tables had to be prepared and sent to the field as rapidly as possible, because without the information, artillery became less effective. Early in World War II, BRL contracted with the University of Pennsylvania's Moore School of Electrical Engineering to take over operation of the school's somewhat faster differential analyzer.

Hoping to improve on the Bush analog device as a means to generate firing tables, John W. Mauchly and J. Presper

Eckert Jr. proposed building an electronic numerical analyzer. With the help of Ordnance officers Col. Paul N. Gillon and Capt. Herman Goldstine, a contract was signed in June 1943 and construction began in June 1944. Final assembly took place in the fall of 1945 and the formal dedication in February 1946. Later the same year, ENIAC was dismantled and delivered to APG in January, 1947.

At the time, it was the largest collection of interconnected electronic circuitry in existence. This year marks the 65th anniversary of the ENIAC.

The first women directly involved with ENIAC were those hired by the Moore School to participate in its actual construction.

According to [witi.com](http://witi.com), the first programmers started out as "Computers." This was the name given by the Army to a group of over 80 women working at the University of Pennsylvania dur-

ing World War II calculating ballistics trajectories - complex differential equations - by hand. When the Army agreed to fund an experimental project, the first all-electronic digital computer, six "Computers" were selected in 1945 to be its first programmers. They were Kathleen McNulty Mauchly Antonelli, Jean Jennings Bartik, Frances Snyder Holberton, Marlyn Wescoff Meltzer, Frances Bilas Spence and Ruth Lichterman Teitelbaum.

All six women contributed to the programming of the ENIAC. Many of these pioneer programmers went on to develop innovative tools for future software engineers and to teach others early programming techniques.

The first person from the proving ground who was transferred to the ENIAC was Winifred "Wink" Jonas. She continued to work on the ENIAC until she resigned.



## Holy Season worship schedule

### Main Post Chapel (Aberdeen Area)

#### Catholic services

- March 25, 8:45 a.m., 5th Sunday of Lent
- March 26, 11:45 a.m., Annunciation
- March 28, 6:30 p.m., Adult Education Lenten
- March 30, 6 p.m., Stations, Soup/Bread
- April 1, 8:30 a.m., Palm Sunday
- April 4, 5:30 p.m., Anointing Mass
- April 6, 3 p.m., Veneration of Cross
- April 7, 8 p.m., Easter Vigil Mass
- April 8, 8:45 a.m., Easter Sunday

#### Protestant

- March 25, 10:15 a.m., 5th Sunday of Lent
- April 1, 10:15 a.m., Palm Sunday
- April 8, 10:15 a.m., Easter Sunday

#### Gospel

- March 25, noon, 5th Sun of Lent
- April 1, noon, Palm Sunday
- April 8, noon, Easter Sunday

### Edgewood Area

#### Catholic services

- March 23, 6 p.m., Stations, Soup/Bread
- March 25, 10:45 a.m., 5th Sunday of Lent
- April 1, 10:45 a.m., Palm Sunday
- April 5, 7 p.m., Holy Thursday
- April 6, 3 p.m., Veneration of Cross
- April 8, 10:45 a.m., Easter Sunday

#### Protestant

- March 25, 9:15 a.m., 5th Sunday of Lent

- April 1, 9:15 a.m., Palm Sunday
- April 8, 9:15 a.m., Easter Sunday

### Lenten lunch and bible study

• Noon, every Wednesday, thru April 4, AA Chapel Fellowship Hall

### "The Drama of Easter"

• April 8, 6:30 a.m., Location: Behind Top of the Bay, Breakfast served at Top of the Bay following service