



APG NEWS

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

www.TeamAPG.com

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Vol. 60, No. 32

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EMPLOYMENT

More than 600 job seekers attend the APG Job Fair looking to change their career path.
Job | A3

VIETNAM

A Pennsylvania native blazed the trail for male nurses in 'Nam.
Veteran | A6

LEADERSHIP

RDECOM welcomes new commander, Maj. Gen. Cedric T. Wins during change of command.
Wins | B1

newsbrief

DOD HUMAN TICK TEST KIT PROGRAM

U.S. Army Public Health Center (Provisional)

The DOD Human Tick Test Kit Program helps combat the threat of tick-borne diseases to DOD personnel. The Army Public Health Center (Provisional), or APHC, provides a tick identification and testing service for military health clinics/health care providers. This is a free service and it serves as a 'first alert' for tick-bite patients and their health care providers.

The APHC Tick-Borne Disease Laboratory uses DNA technology known as polymerase chain reaction to analyze ticks for evidence of infection with the agents of several tick-borne diseases. Live, as well as dead, ticks are tested.

APHC also offers information and educational materials regarding ticks, tick-borne diseases, tick removal, and personal protective techniques.

Different tick species transmit different pathogens, and since most tick-borne illnesses exhibit identical early symptoms, tick species and infection status may be useful to the physician in evaluating and monitoring the patient's health, and in making diagnostic and treatment determinations.

For more information about APHC, visit <https://phc.amedd.army.mil/>.

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ICE system <http://ice.disa.mil/>
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Training to save a life



First responders, lifeguards practice water rescues

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

All it takes is the wave of a hand from a swimmer in trouble in the water to turn a relaxing day on the shore into a frenzied life-or-death situation.

Events like this come with almost no warning, which is why APG firefighters and emergency medical services, or EMS, personnel in the Directorate of Emergency Services, or DES, train to be prepared.

DES firefighters joined Morale, Welfare and Recreation lifeguards at the Bayside Pool on APG South (Edgewood) and the Olympic Pool on APG North (Aberdeen) for water rescue training, Aug. 3.

The event was held as recreational swimmers at the facilities looked on to draw attention to the fact that drowning is the leading cause of death in children ages 1-4, according to Mike Slayman, DES assistant chief of EMS.

"Pools pose the greatest threat to young children and toddlers because they love the water and they're too young to understand the danger," Slayman said.

He offered the following advice to pool owners with young children:

- Be familiar with CPR.
- Ensure access to the pool is secure when not

See **TRAINING**, page A7

Capt. Loren Brown watches MWR Lifeguard Evan Marlow twist the arms of "drowning victim," Firefighter John Frank to stabilize his hands before lifting him from the water as Firefighter Robert O'Farrell assists during Water Rescue Training at the Olympic Pool, Aug. 3.

Ravens host area military, families

Annual training camp event salutes service members

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

The Baltimore Ravens kicked off pre-season training camp, Aug. 1, with its annual free practice session for fans at M&T Bank Stadium in Baltimore. In what has become a tradition for the National Football League franchise, the military

See **RAVENS**, page A7

Baltimore Ravens second-year wide receiver Kaelin Clay, left, and 2016 Fourth Round Draft Pick Cornerback Tavon Young, right, sign autographs for military fans at the end of the Aug. 1 pre-season training camp game at M&T Bank Stadium that featured free entry for all, and a salute to the military that included reserved seating and gifts for service members and their families.



Soldiers represent USA at Olympics

Twenty-two time Olympic medalist swimmer Michael Phelps carries the Stars and Stripes while leading Team USA into Maracanã Stadium during the Opening Ceremony of the 2016 Olympic Games in Rio de Janeiro, Brazil, Aug. 5.

Eleven Soldiers are representing the U.S. Army as part of Team USA. Three additional Soldiers are serving as coaches, and three others as team alternates.

To learn more about the U.S. Soldiers representing the United States in Rio, visit www.apgmwr.com/olympians.

Photo by Tim Hipps, IMCOM

STREET TALK

What is the best thing you've done so far this summer?

"[Went] to the beach. Ocean City."



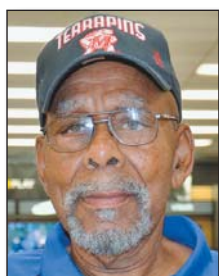
Theresa Ray
The Lunch Box

"Took my 17-year-old daughter to Florida [to celebrate] her graduation. We went to Universal, Islands of Adventure, and Busch Gardens."



Jennifer Welsh
Military spouse

"[I] just go home, sit and relax, and thank the lord I've got another year."



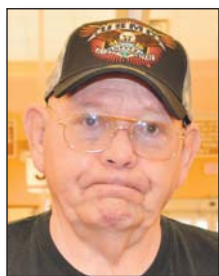
Robert Monden
Military retiree

"Honestly, this job [at the youth center]. I love this job. The kids are awesome. I basically feel like I get paid to have fun."



Charice Scruggs,
CYSS, family member

"Got back to nature. Went back up there into God's country, the mountains. Nobody is up there except me."



James Mowery,
Military retiree

ACS reports Army Family Action Plan survey results



The Army Family Action Plan, known as AFAP, started in 1983 as the Army realized the need to expand services to include not only Soldiers in the service but their family members and the surrounding military community. The concept of identifying issues for Army resolution through worldwide representation of Army family members morphed into AFAP, a vehicle by which Soldiers and their families can take an active role in improving their lives.

"AFAP is the best way to let Army leadership know what works, what doesn't, and how you think problems can be resolved," said Sarah Polanco, APG Army Community Service AFAP program manager for. "It alerts commanders and Army leaders to areas of concern that need their attention, and it gives them the opportunity to quickly put plans into place to work toward resolving the issues."

Polanco said issues that meet the eligible criteria are reviewed and an action plan is established by Subject Matter Experts to achieve the desired change. Those issues that cannot be resolved at the local level are forwarded to IMCOM for review and resolution.

"This year, six issues met the criteria and were addressed; five were considered local and one will be forwarded to IMCOM," Polanco said, adding that Soldiers, family members, Army civilians, Survivors, Reserve Component Soldiers and retirees are allowed and encouraged to participate in the AFAP process.

Aberdeen Proving Ground users can submit AFAP issues online through the www.apgmwr.com website. Select the "Community Service" tab, then "Army Community Service." The online survey is located under the Army Family Action plan, or AFAP, program description. Issues that cannot be resolved locally are sent to IMCOM for further input and resolution, if deemed necessary.

Local issues are forwarded to subject matter experts in the community for awareness and resolution and also presented and reviewed with the Garrison Commander for resources needed to resolve the issues.

National AFAP results over the years include:

- Distribution of Montgomery GI Bill benefits to family members
- Annual leave carryover increase from 60 to 75 days
- Extended educational benefits for spouses
- Military Thrift Savings Plan
- TRICARE for Life for eligible retirees.
- SGLI increase
- In-state tuition for military family members

This year, 15 issues were submitted through the APG AFAP survey. Out of the 15 issues, six had the required information to appropriately address the issue. On July 19, the following issues and subject matter expert recommendations were reviewed with the Garrison Commander:

1. Issue: A Pothole at the Route 22 [Harford Boulevard] gate and lines of traffic from 4:15 to 4:45 pm. negatively impacts exiting the installation.

Recommendation/ Status: The Directorate of Public Works, DPW, is aware of the pothole at the 22 Gate and has since fixed the issue.

2. Issue: Gaining valuable information in a timely fashion from the Department of Veterans Affairs, or VA, is extremely difficult for widows. Widows are not aware of benefits without independently seeking the information. Then, once the process

begins, it can literally take months to years to be resolved. Providing contact information and resources should be more readily available to military survivors.

Recommendation/Status:

There are certain conditions that entitle a person to receive compensation. Information on benefits and compensation for widows can be found online at www.benefits.va.gov. In addition, every first Wednesday of the month a veterans benefits specialist is available at APG to assist veterans and survivors in Bldg. 4305.

In addition, the ACS Survivor Outreach Services, or SOS, program provides long-term support to surviving families of fallen Soldiers through a range of programs, resources and information. For more information, call Mike Farlow at 410-278-2435 or email michael.b.farlow.civ@mail.mil.

3. Issue: Kirk U.S. Army Health Clinic, or KUSAHC, closed for training. Retirees and family members cannot pick-up or drop off prescriptions, get blood drawn, or get shots on training days.

Recommendation/Status: Training has to be conducted one day per month to meet MEDCOM and credentialing requirements. KUSAHC uses the training day to meet those requirements.

The capability to fill prescriptions, draw blood or give shots is in place if an emergency needs to be addressed during a training day.

4. Issue: Upon arrival at APG from the National Capitol Region a family had difficulty locating Applied Behavior Analysis, or ABA, therapy for their autistic son.

Recommendation/Status: The TRICARE process of obtaining a therapist is by a Primary Care Manager referral followed by TRICARE locating a therapist. It was determined the TRICARE process is lengthy and it is possible that the provider assigned could be up to 60 miles from a patients home. It was decided that this issue should be raised to a higher level as it involves the Army's contract specifics on this matter with Health Net Federal Services. Kirk will also continue to address such TRICARE processes during their quarterly town hall meetings.

5. Issue: Team APG member has tried repeatedly to register for Army Community Service account online through Rec Trac.

Recommendation/Status: RecTrac is operated by the MWR IT department. If issues occur with the system, inform MWR staff at 410-278-9660.

6. Issue: Employees have few dining choices for lunch. The Top of the Bay is only open on select days. Subway at the Express is small and inconvenient location. Other vendors are good but busy.

Recommendation/Status: Expanded services are dictated by a combination of population served, funding, and program profitability (ROI). Operations cannot operate in the 'red' as AAFES must generate earnings to give back to MWR. We already have some facilities that operate at a loss on APG, and AAFES is not in the position to further expand food at this time. Instead AAFES is reviewing bringing different food truck options as a source of variety to the patrons. Food trucks are active on Edgewood and usage will be actively measured.

For more information about how to submit an issue or a resolution of local issues, contact Sarah Polanco, AFAP program manager, at 410-278-2464 or email sarah.polanco.civ@mail.mil.

Leave Donations

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

- Acevedo, Rachel
- Acosta, Jeannie M.
- Bensch, David H.
- Blanton, John B.
- Branscome, Teresa A.
- Ciborowski, Steven
- Clapham, Ann M.
- Clark, Lyra
- Clemons, Bobby R.
- Crowder, Phillip N.
- Dennis, Robin N.
- Dissek, Michael J.
- Diveley, Roberta R.
- Donlon, Jacqueline A.
- Ellis, Gibson, Tanya J (T'Jae)
- Friedman, Marian J.
- Gaddis, Lonnie

Employees eligible for donations in the Voluntary Leave Transfer Program

- Gilley, Christopher M.
- Glassman, Connie L.
- Hairston, Olga M.
- Hamrick, Eunice G.
- Humphries, Theresa
- Johnson, Douglas W.
- Khan, Abid R.
- King, Sharon M.
- Kuciej, Andrea D.
- Kyro, Kelly J.
- Leanguerrero, Louise A.
- Meadowcroft, Catherine G.
- Meskill, Joseph F.
- Nunley, Dana Y.
- Peduzzi, Jill L.
- Redman, Corinne L.
- Rodriguez, Pedro

- Ruff, Albert L.
- Shoaf, Meaghan L.
- Smothers, Sharon L.
- Snodgrass, Deanne
- Solomon, Je'Neane
- Soto, Robert Alan
- Thompson, Curtis
- Tisdale, Dorris A.
- Trulson, David K.
- Vaccaro, Dominic S.
- Villanueva, Jenny
- Waters, Patricia M.
- Westgate, Amy E.
- Witt, Rebecca S.

See Something

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APG NEWS

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

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

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Job Fair draws record numbers

Story and photos by
LAUREN FINNEGAN
APG News

The Job Fair and Employment Resource Day Expo that took place at the APG North (Aberdeen) recreation center Wednesday, Aug. 3, might have been the biggest event ever according to organizers.

At least 620 job seekers attended the expo hosted by the APG Army Community Service Employment Readiness Program in partnership with the Susquehanna Workforce Network, the Maryland Department of Labor Licensing and Regulation; and the APG Military Personnel Office/Directorate of Human Resources.

Marilyn Howard ACS Employment Readiness Program manager, said Rebecca Price of the Soldier for Life Transition Assistance Program, also assisted on the event. Howard said she was impressed with the number of attendees, which was up 65 percent from last year. More than 60 employer representatives were confirmed to attend, with several more companies eager to join the event up until the last minute, she added.

Employers and job seekers

Colleen Ailor, Human Resources manager for Vistrionix, said her company was happy to be included in the event. She said the company was looking for individuals with “diverse skill sets,” and that APG job fairs always have high turnouts.

Job seeker Melanio Cuebas said he came out because he feels that “Baltimore’s growing and it’s expanding.” With 20 years of experience in the supply chain business, Cuebas said that he was open to different opportunities. He said his goal at the job fair was to, “reach out, do a little marketing, and understand what’s available.”

The Lockheed Martin line stretched to the far end of the room. The company was recruiting for everything from technicians to project managers, and was interested in job seekers with a variety of experiences. One applicant, Chelsea Bentzen, said she was currently employed but looking for something that was “near and dear to [her] heart.” She said that she has always been interested in chemistry and research and was



(Left) Sgt. Joshua Hooper of the Maryland State Police informs job seeker Paul Matthias about openings within his organization, during the Job Fair and Employment Resource Day Expo at the APG North (Aberdeen) recreation center Wednesday, Aug. 3.

(Below) Job seekers pack the APG North (Aberdeen) recreation center ballroom during the Job Fair and Employment Resource Day Expo Wednesday, Aug. 3. More than 600 people attended the event; a 65 percent increase over last year.



hoping to make a career change.

Johnny Flynn, who holds a bachelor’s degree in criminal justice and criminology spoke with Staff Sgt. Anna Stephens of the Bel Air Army Recruiting Office display. Flynn stated that he was looking to get his career started and that the military was something that interested him. He added that he

would be meeting with Stephens to find out more information about available opportunities.

This was the first job fair for Jessica Hopson, a Harford Community College student, Chemical Engineering major. Hopson said her mother urged her to attend the fair for the experience. She said she was able to speak with several

companies and though she was nervous, she said that with practice, she’ll, “get the handle of it.”

For more information about the Employment Readiness Program and other resources for jobseekers, visit www.apgmwr.com, or contact Howard at 410-278-9669, or email marilyn.e.howard.civ@mail.mil.

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ATEC SFL program gets LinkedIn

Story and photos by
LINDSEY MONGER
ATEC

The U.S. Army Test and Evaluation Command's, or ATEC, Headquarters and Headquarters Company, or HHC, conducted its fourth Soldier for Life, or SFL, meeting focusing on the social media platform LinkedIn at ATEC headquarters July 27.

The SFL program was established by the Army in July 2012 to prepare current active, Guard or Reserve Soldiers to successfully transition to civilian life. ATEC's SFL program is open to Soldiers who are considering transitioning from Soldier to civilian; former Soldiers who have already transitioned or retired; and to the civilians who volunteer to serve as mentors.

Capt. Michael S. Lee, ATEC HHC commander, started the command's SFL program in March to give Soldiers the tools they need to be successful after their military career ends. To help facilitate this, he enlists the aid of the large population of military retirees at ATEC who volunteer their time to help transitioning Soldiers through the retirement process by discussing lessons learned.

During the SFL meeting, or lunch box meeting as Lee likes to call them, he explained to the Soldiers who attended the importance of LinkedIn for networking and connecting purposes.

"Not only are some of your friends on LinkedIn, but so are a large number of potential employers," Lee said. "Employers use social media platforms, such as LinkedIn and Facebook to look at a potential employee. What you put on your LinkedIn or Facebook page could be a deciding factor on whether or not you get the job."

Rebecca S. Price, career counselor at Aberdeen Proving Ground's Soldier for Life Program, and Michael Hoban, chief of ATEC's Protection Division, along



(Left) Soldier for Life Career Counselor Rebecca S. Price leads attendees through the online social media platform LinkedIn during the U.S. Army Test and Evaluation Command's monthly SFL meeting at ATEC headquarters, July 27.




(Below) U.S. Army Test and Evaluation Command, or ATEC, employees discuss the online social media platform LinkedIn during the monthly Soldier For Life meeting at its headquarters building, July 27.

with Lee, demonstrated how to navigate through the vast network of the LinkedIn social media platform. At the end

of their demonstration, Lee opened the floor for questions and further discussions on the topic.

For more information about the Army's Soldier for Life program, visit <http://www.soldierforlife.army.mil>.



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ALL THINGS MARYLAND

Baltimore's iconic sweet treat

Fudge-topped Berger Cookies trace roots to 1830s

By **RACHEL PONDER**
APG News

For those unfamiliar with Baltimore cuisine, a Berger Cookie is a vanilla shortbread cookie, hand-dipped in thick chocolate fudge icing. Synonymous with Charm City, Berger Cookies are a well-known, locally produced sweet treat.

The cookies are usually about four inches in diameter, handmade and distributed by DeBaufre Bakeries, a small business in the Cherry Hill neighborhood of South Baltimore.

DeBaufre Bakery owner Charles DeBaufre Jr. recommends the iconic cookies to chocolate lovers, who enjoy intense, sweet flavor.

"It is basically a mound of chocolate transported by a [shortbread] cookie," he said.

According to DeBaufre, approximately one million Bergers Cookies are made at the factory each year. The company employs 23 people, including the drivers, he said. The factory uses ingredients from local companies like the Baltimore-based Domino Sugar factory.

"Each cookie is made by hand, they are pretty consistent but you will see some differences," he said. "Some have more chocolate [frosting] some have less."

DeBaufre said the sweet, fudge-topped treats have increased in popularity through word-of-mouth. The cookies have been featured on TV shows like "The Rachael Ray Show," and "The Best Thing I Ever Ate" on the Food Network, and "The Talk" on CBS. In 2015 it was voted the "Best Local Foodie Product" by "Baltimore City Paper" readers.

DeBaufre said the Berger Cookies recipe hasn't changed much since it was



Photo by Molly Blosser, APG News

Bergers Cookies, produced in Baltimore, are well-known for their layer of thick chocolate fudge icing.

brought to America from Germany by George and Henry Berger in 1835. Back then the cookies were primarily sold in the city's open air markets.

In 2017, the recipe will be modified to comply with the U.S. Food and Drug Administration's 2018 deadline that

ordered food manufacturers to remove artificial trans fats from processed foods.

According to DeBaufre, even with the modifications, the iconic dessert will never be considered a health food.

"It's not a health food; it's a cookie," he said.

Bergers cookies are sold in stores in Maryland, Northern Virginia, Washington D.C., Southern Delaware and Southern Pennsylvania, and are shipped all over the world. To locate a store where the cookies are sold, or to order Berger Cookies online, visit <http://www.bergercookies.com/>.

CECOM Chief of Staff lauded for 30 years of service

CECOM

Military retirement ceremonies give rise to the most bittersweet of emotions. Colleagues, battle buddies, family and friends alike swell with the pride of the retiree's accomplishments, eager to wish them well, while at the same time sad that a storied chapter of a life is coming to a close.

Such was the case at the Myer Auditorium on APG North (Aberdeen), Aug. 4, as Communications-Electronics Command Chief of Staff. Col. Charles E. Harris III was honored for nearly 30 years of selfless and steadfast service in the U.S. Army.

Maj. Gen. Bruce T. Crawford, CECOM Commanding General and APG Senior Mission Commander, while unable to attend personally, delivered heartfelt remarks electronically.

"If I had to sum up Chuck Harris in a nutshell," Crawford said, "I think the example you have set of character for all to follow, I think the amazing example you have set for young people, in terms of your number one job, and that's being a husband and a father; and mostly your care for people, that's how I sum up your overall contributions here.

"So I say to you, there is no doubt in my mind, given what I have seen of you as a man, what I have seen of you as a leader, that the next chapter is going to exponentially eclipse...this past chapter of service, and commitment to the U.S. Army and the nation." he continued. "So I say to you thank you very much, for all that you have done for our Army and for your commitment to people, and watching them reach the next level. Good luck, Godspeed to you and your family.

"I really mean this," said Crawford. "If there is ever anything that I can do, if you ever need a right hand man, if you ever need somebody to come and 'boo' your favorite team the (Ravens), who get beat by my favorite team the Steelers every year, please call on me and I will be there for you."

The presiding officer, Commanding General of the Joint Munitions Command, Brig. Gen. Richard B. Dix, made a special trip to Aberdeen Proving Ground to add to the accolades afforded to the retir-

ing officer. Dix recalled how, during a tour at Fort Leavenworth, Kansas, the two were neighbors, and noted that the Dix and Harris families have the kind of long-standing, deep ties that can only be borne of that special military bond of shared experience.

Harris, a native of nearby Baltimore, enlisted in the Maryland Army National Guard while still in high school, and in 1983 was awarded a four-year Reserve Officer Training Corps (ROTC) scholarship at Morgan State University, where he earned a bachelor's degree in Computer Science, and subsequently was commissioned as a second lieutenant in the Army Signal Corps. He served at locations around the U.S. and the world at tactical, operational and strategic levels before culminating his service here at CECOM.

He was joined by his parents, aunts, uncles, cousins, and most notably, his wife and three daughters. One of the true highlights, for all based on the loud applause, came early on when Harris' daughters combined for a stirring, a cappella rendition of the national anthem.

During the ceremony Harris was awarded the Legion of Merit and the Bronze Order of Mercury from the Army Signal Corps Regimental Association. He was honored by personal notes and citations from President Barack Obama; Army Materiel Command Gen. Dennis L. Via; AMC Deputy Lt. Gen. Larry D. Wyche; and several elected officials including from Maryland Governor Larry Hogan Jr.; U.S. Senator Barbara Mikulski; U.S. Representatives Elijah Cummings and "Dutch" Ruppersberger; Harford County Executive Barry Glassman and Aberdeen Mayor Patrick McGrady.

Just as importantly, Harris' wife Lisa was recognized for her sacrifice and service in support of her husband's career, by certificates of appreciation from Army Chief of Staff, Gen. Mark Milley, Via and Crawford.

Harris thanked his family, friends, colleagues, classmates and neighbors for all their support throughout the years.

Attendees adjourned to a reception that followed the ceremony to offer final good byes and best wishes, to Harris and his family.



Commanding General of the Joint Munitions Command, Brig. Gen. Richard B. Dix, congratulates Communications-Electronics Command Chief of Staff and retiring Col. Charles Harris III, after presenting him with the Legion of Merit, while CECOM Command Sgt. Maj. Matthew McCoy looks on. Harris retired after nearly 30 years of service in a ceremony held in the Myer Auditorium on APG North (Aberdeen) Aug. 4

So I say to you, there is no doubt in my mind, given what I have seen of you as a man, what I have seen of you as a leader, that the next chapter is going to exponentially eclipse...this past chapter of service, and commitment to the U.S. Army and the nation.

Maj. Gen. Bruce T. Crawford
APG Senior Commander

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MEMORIES OF 'NAM



Veteran served as nurse in Vietnam

By **YVONNE JOHNSON**
APG News

A local veteran who helped blaze the trail for male nurses in the Army, said he learned life-long lessons quickly in the Vietnam War zone.

Mike Winnicki was born and raised in Plymouth, Pennsylvania. He graduated high school in 1957 and "went straight into nursing school."

"Folks thought I should've been playing football in college," said Winnicki, who noted he excelled at basketball, baseball and football in high school. He attended the Pennsylvania Hospital School of Nursing for Men in Philadelphia the same year and graduated in 1960 with a degree in nursing. Winnicki was drafted in 1961. The Berlin Wall had gone up and the military was offering direct commissions, he said.

He was inducted into the Army as a second lieutenant, July 17, 1961 and attended basic medical training at Fort Sam Houston in San Antonio, Texas. His first duty station was to Fort Campbell, Kentucky, the home of the 101st Airborne Division, where he served as an RN with the 326th Medical Company from 1961 to 1964. He earned his promotion to first lieutenant and attended several career enhancing courses, including Airborne School where he was certified a Jump Master. He also was promoted to first lieutenant and was awarded his first Army Commendation Medal and other during this time.

The air assault mission had not yet formed and Fort Campbell "was all jump," he said. He then jumped at the chance to attend anesthesia school after his commander suggested it. He attended the 18-month long course at Walter Reed Army Medical Center from 1964 to 1965. During that time he lived in Silver Spring, Maryland, got married and became a father.

According to the U.S. Army, Office of Medical History, Office of the Surgeon General, the Army Nurse Corps commissioned its first male officer, Lt. Edward T. Lyon. Oct. 6, 1955. Male nurses quickly proved their worth by serving in airborne units, hospitals, resuscitation teams, and field units throughout the world. Today, male nurses represent over 35 percent of the Army Nurse Corps. They serve parallel to their female counterparts, exhibiting immense skill, compassion and professionalism; continually upholding the core values of the Army. Army Nurses: Ready, Caring and Proud!

Winnicki volunteered for 'Nam in 1965, mainly because most of his Fort Campbell comrades were already over there.

"I just wanted to get back to my old unit," he said. "Six weeks after my son was born I was in Vietnam."

He arrived in June 1966 and was assigned to Company D of the 326th Medical Battalion, 1st Brigade, 101st Airborne Division. As a certified registered nurse anesthetist, or CRNA, he became the brigade blood supply officer and also served as medical supply officer and brigade drug officer. He said medical supplies and drugs were heavily monitored and guarded.

"Supplies were kept in big [metal containers] with chains wrapped around them and they were guarded at night," Winnicki said. He added that the unit "pretty much just chased Charlie."

"Wherever they were fighting, that's where we went," he said. "The entire first year, our days were nights. When the wounded came in, we worked. That was it."

As a nurse anesthetist, Winnicki was responsible for "keeping people alive." His unit had four platoons of about 150 personnel. He was the only male nurse anesthetist along with three doctors and a dental surgeon.

"We stabilized those brought in and sometimes went out on missions if we didn't have too many casualties," he said. "We worked around the clock, 24/7."

When he could, Winnicki flew

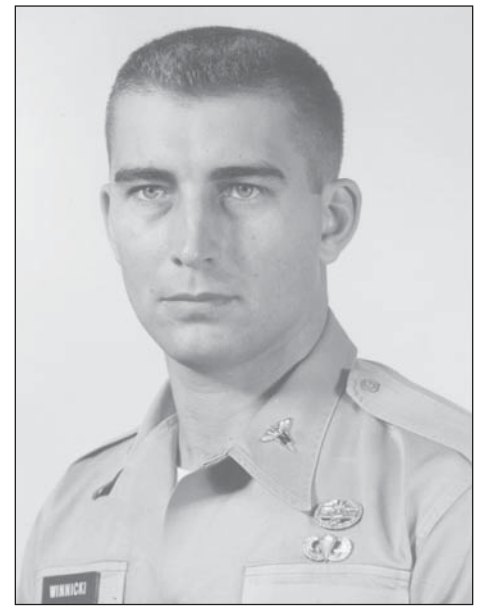


Winnicki



Mike Winnicki served as a nurse anesthetist in 'Nam, 1966-67, and retired as a lieutenant colonel in 1982. (Clockwise from top) A young Lt. Winnicki checks on a patient during Operation Nightingale exercise at Fort Campbell, Kentucky; Maj. Winnicki's official photo while a captain at Valley Forge, Pennsylvania; rappelling from a training tower at Fort Campbell, Kentucky; caring for newborns in nursing school in Philadelphia in 1958.

Courtesy photos



"Dustoff" missions to triage the severely wounded

Winnicki saw a lot of the small nation of South Vietnam in the year he served in there. From his arrival point in Saigon, he served in Phan Rang; Dak To; Tuy Hoa; Phan Thiet; Son Moa; Bao Loc; Khan Duong; Kontum and Duc Pho. His additional duties included Blood-Anti venom control officer and he earned a Combat Medical Badge and was awarded a Bronze Star for combat at the completion of his tour.

His assignments after 'Nam included Brooke Army Medical Center; Valley Forge Medical Center in Pennsylvania; Fort Rucker, Alabama; Fort Gordon, Georgia; Fitzsimmons Army Hospital in Aurora, Colorado; and at Kirk Army Hospital at Aberdeen Proving Ground where he was the Chief CRNA from June 1972 to June 1974. He also earned a Bachelor of Science in nursing, or BSN, while stationed at APG.

He said some of his strongest post-Vietnam memories included working at Valley Forge from 1968-69, which had the East Coast Orthopedic Center.

"They had 18 surgeons and they brought in Soldiers from 'Nam from

McGuire Air Force Base in New Jersey by helicopter," he said. "They were all missing limbs or had other serious injuries, mostly from land mines. Not a one was older than 19. I was so depressed when I got home that night."

Winnicki also served in Belgium, from 1969-72 at the 196th Station Hospital, Supreme Headquarters Allied Powers Europe, or SHAPE.

He retired from the Army as a lieutenant colonel in 1982 while serving as the Chief CRNA at Eisenhower Medical Center, Fort Gordon, Georgia. Winnicki and his family returned to Harford County where he worked as the Staff CRNA at the former Fallston General Hospital; at St. Joseph Medical Center in Baltimore; and at Harford Memorial Hospital in Havre de Grace before retiring in 1994.

He said when he looks back on 'Nam he remembers "the closeness we had." Once, he said, he and his comrades traded two Army blankets for four boneless turkeys from villagers.

"We made a stew and ate that stuff for three days," he said.

"I can remember bits and pieces about the patients," he said. He recalled when a sergeant who was shot through the femur had to be restrained from attacking a Soldier on a nearby stretcher, who he accused of "running away from the fight."

"We had to knock him out," he said.



"And then another guy had both lungs collapsed when he tried to catch a box of c-rations dropped from a helicopter."

"Mostly," he said, "I can remember working in a frenzy to save lives. We did that so much, it blurs together."

Today, Winnicki lives quietly with his wife, Geri, of nearly 53 years and dotes on his grown son and daughter and eight grandchildren. He calls Geri his "rock," and his strongest supporter.

"She said I came back changed, a Jekyll and Hyde," he said, adding that he noticed changes in himself as well, such as mood swings and fixations on revenge whenever someone angered him. He's 100 percent disabled due to neurological

maladies and post-traumatic stress disorder and he blames his exposure to experimental chemicals in 'Nam, like Agent Orange, for a series of miscarriages his wife suffered later. And he's a patient of KUSAHC, the same facility in which he served.

Winnicki said he feels the medical corps made a difference in 'Nam, at least to the troops they cared for.

"I felt we took care of the troops, the ones we saved, even the ones we tried to save. I know we did our best. Our guys would be out there for weeks looking for 'Charlie' while others slept in their beds every night. Those were the ones we worked for; the ones who mattered."

Training improves dual lifeguard/EMS drowning response

Continued from Page A1

in use.

- Supervise young children and toddlers constantly.
- Make sure whoever supervises children is a swimmer with CPR training.

“Pools should be fenced in and inaccessible, but if one side of the pool opens to the house then that door should have an alarm system,” Slayman said. “You can never be too careful. If a toddler or child is missing, the first place you should look is in the pool.”

Capt. Loren Brown led the Water Rescue training at the Olympic Pool that included stabilizing a drowning victim on a backboard in the water; and removing the victim from the water as a team. Team members wore swift water rescue vests and worked together to secure the casualty to the backboard, immobilize the head, and lift the securely-strapped casualty to safety, out of the water. Brown said that while drownings or near-drownings don’t occur often on APG, preparation is the key to ensuring life-saving measures are in place and synchronizing with on-site responders, such as lifeguards, is critical to that effort.

“Just because this is not a frequent response, we have to bear in mind that we need to be able to work with the lifeguards and know their procedures,”

Brown said.

Coincidentally, it was the first day on the job for Megan Davis, a lifeguard instructor and certified water safety instructor, who offered pointers during the training. Davis also serves as a swim instructor and lifeguard pool operator. She said the techniques practiced that day were “good for shallow water rescue.”

“Most pools are not within 30 seconds of a fire department, which makes it necessary for lifeguards to have the same knowledge as emergency responders,” she said.

Eighteen-year-old lifeguard Evan Marlow, in his third summer an APG lifeguard trained with the DES personnel. Marlow, a second year engineering major at Harford Community College, whose mother is in the Maryland National Guard, said he gained a measure of confidence during the training.

“It gave a good [idea] of what would actually happen after they show up [to an emergency at the pool],” he said. “It shows why we try to be alert and ready at all time. It’s all about reaction time. The quicker you notice, the quicker you can save someone.”

For more information about Summer Safety, visit the Army Safety Center website at www.safety.army.mil.



During water rescue training at the Olympic Pool on APG North (Aberdeen), Aug. 3, (clockwise, from bottom left), DES firefighters Colby Walker, Eric Hermann, John Frank and Nick Wilson secure a drowning victim – played by Paramedic Mark Williams – to a backboard as MWR Lifeguard Evan Marlow, center, immobilizes his head and neck.

Ravens salute sacrifices made by service members, families

Continued from Page A1

was honored with special seating for service members and their families. Also, uniformed service members went to the field and cheered on Ravens players as they exited the player’s tunnel for the “game,” a two-hour series of offense-versus-defense schemes for player evaluation by head coach John Harbaugh.

Seated in reserved end-zone seating, service members said they appreciated the annual salute.

Friends, coworkers, and Ravens fans, Maryland National Guard Sgts. Ara Bonner and Todd Brown, said they wouldn’t have missed the event.

“I’m a big Ravens fan and I plan on coming out for this every time,” Bonner said. “It’s very appreciated.”

A self-described “super Ravens fan,”

“The sacrifices these kids and their parents make for our country we take for granted. So, we’ll keep doing this every year. Because we love the military and we appreciate everything they’ve done for all of us.”

John Harbaugh
Baltimore Ravens Head Coach

Brown said he attends the free night every year.

“It’s awesome to come out and feel appreciated by the fans and the players,” he said. “You feel like the whole Ravens organization is behind you. It’s a great feeling.”

Sgt. Douglas Byers, of the Pennsylvania National Guard’s 28th Infantry Division, took in the festivities with his wife Christina and daughter Nautica, 15. A native of Baltimore, Byers said he’s been driving down from the Philadelphia area, “the last six or seven years.”

“I just love it,” he said. “It makes Soldiers and their families feel appreciat-

ed. And this was my first time out on the field. It was all pretty awesome.”

After the game, Harbaugh met briefly with members of the media on the field, and offered his evaluation on the potential of several recently-drafted players before turning to the night’s events, including the military salute, which has become a Ravens tradition. Harbaugh said that he’s noticed some of the same families show up every year.

“It’s amazing. I know I’ve recognized kids from the year before and to watch them come back is just amazing,” he said. “The sacrifices these kids and their parents make for our country we take for granted. So, we’ll keep doing this every year. Because we love the military and we appreciate everything they’ve done for all of us.”

BY THE NUMB#RS

Performance Triad Month

August is Performance Triad Month. The Performance Triad is an Army initiative that focuses on sleep, activity and nutrition; key actions that influence health. Learn more about the Performance Triad with these facts.

10,000

Number of steps adults should take per day. A sedentary person may only average 1,000 to 3,000 steps a day.



150

Number of minutes of moderate-intensity aerobic exercise adults need each week, to improve cardiovascular health.

43

Percentage of Americans between 13 and 64 say they rarely or never get a good night’s sleep on weeknights. Experts recommend people get 7 to 8 hours of sleep every 24 hours, and have a consistent sleep routine.

8

Number of servings of fruits and vegetables adults should eat each day. Optimal nutrition improves performance and exercise recovery.

2

Number of days of muscle-strengthening activities adults need per week to achieve positive health outcomes, according to the Centers for Disease Control and Prevention. Strength training increases metabolism to help burn more calories for weight loss or weight maintenance.

By **RACHEL PONDER**, APG News
Source(s): <https://www.army.mil/>
<http://armymedicine.mil/>
<http://www.thewalkingsite.com/10000steps.html>

4349809-1

Johns Hopkins Medicine
US Family Health Pla
2 x 10.14

MARK YOUR CALENDAR

EVENTS & TOWN HALLS

WOMEN'S EQUALITY DAY OBSERVANCE AUGUST 24

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

INSTALLATION SOCIAL AUGUST 30

APG North (Aberdeen) recreation center, 4:30 p.m. Open to all. Free refreshments and cash bar.

GARRISON BOWLING SOCIAL & LUNCHEON SEPTEMBER 8

APG Bowling Center, 11 a.m. to 1:30 p.m. Free food and bowling open to military and civilian garrison employees only. For more information, contact Garrison HHC 1st Sgt. Richard Bernard at 410-278-9819.

HISPANIC HERITAGE MONTH OBSERVANCE SEPTEMBER 22

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

MEETINGS & CONFERENCES

EEO HR FOR IMCOM SUPERVISORS TRAINING SEPTEMBER 22

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

FIRE EXTINGUISHER TRAINING SEPTEMBER 15

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

FIRE MARSHALL TRAINING SEPTEMBER 27

Bldg. E4810. 9 a.m. to noon. Hosted by the APG Directorate of Emergency Services Fire Protection & Prevention Division.

Attendees will receive a certificate of completion at the end of the class. For more information, contact Inspector Loren Brown at 410-278-1128.

HEALTH & RESILIENCY

BOOST YOUR IMMUNE SYSTEM SESSION AUGUST 18

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

CPR & AED TRAINING SEPTEMBER 22

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

APG NORTH DENTAL CLINIC CLOSED AUGUST 31

For more information, contact Sgt. Jerry Willis at 410-278-1794 or jerry.h.willis2.mil@mail.mil.

APG NORTH DENTAL CLINIC CLOSED SEPTEMBER 2

For more information, contact Sgt. Jerry Willis at 410-278-1794 or jerry.h.willis2.mil@mail.mil.

APG NORTH DENTAL CLINIC CLOSED SEPTEMBER 5

For more information, contact Sgt. Jerry Willis at 410-278-1794 or jerry.h.willis2.mil@mail.mil.

FAMILY & CHILDREN

BACK TO SCHOOL GIVEAWAY AUGUST 13

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

ANNOUNCEMENTS & MISCELLANEOUS

LEADING IN THE ACQUISITION ENVIRONMENT COURSE SEPTEMBER 27-30

Bldg. 6175, Guardian Gateway, 8 a.m. to

5 p.m. Hosted by Defense Acquisition University. Course provides an overview of the competencies and skills needed to lead in an acquisition environment. Experiential activities include role playing, simulation, communication, and critical-thinking exercises; a leadership challenge; and completion of a 360° feedback instrument and executive coaching to develop action plans related to the feedback. Level III certification in at least one acquisition career field and at least 3 years of Level III experience are required prerequisites for the course. Upon completion, students will earn 31 Continuous Learning Points. Applications due Sept. 6. For more information, visit <http://www.dau.mil/training/Pages/apply.aspx> or contact Ben Metcalfe at benjamin.metcalfe@dau.mil or 410-272-9471.

FORGING STAKEHOLDER RELATIONSHIPS COURSE OCTOBER 5-7

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

APG SOUTH 2016 WATER MAIN FLUSHING

The APG South (Edgewood) 2016 water main flushing schedule is as follows: Through September: E3000-E4000 area; Aug. 11-13: APG South housing area, E1220-E1300 area,

and child care center; Oct. through Dec.: E5000 area; Nov. 10-12: APG South housing area, Austin Road. For more information, contact Robert Warlick at 410-436-2196 or robert.w.warlick2.civ@mail.mil.

BIBLE STUDY CLASS

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

RETIRING SOON? UNCLE SAM WANTS TO THANK YOU!

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

FIREWOOD AVAILABLE FOR SALE

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

MORE ONLINE  More events can be seen at www.TeamAPG.com



MORALE, WELFARE & RECREATION



Upcoming Activities

SAVE THE DATE

BJ'S MEMBERSHIP SIGN UPS AUGUST 16 at Exton Golf Course AUGUST 17 at APG Bowling Center

11 a.m. to 1 p.m. Inner Circle membership is \$35 (\$15 savings) for 13 months. Rewards membership is \$75 (\$25 savings) for 13 months. New and renewal memberships eligible. All forms of payment accepted. For more information, contact Patricia Harkins at patricia.e.harkins.naf@mail.mil or 410-436-4467.

RIPKEN BALL GAME AND CRAB FEAST AUGUST 27

The Civilian Welfare Fund will host a crab-feast at the party deck at Ripken Stadium. Picnic dinner includes smoked pork BBQ, roasted herb chicken, hot dogs, baked beans, coleslaw, tossed salad, steamed crabs, cookies and drinks. Tickets are \$58 per person. Dinner begins at 6:35, game starts at 7:05. Call 410-436-4467 to purchase a ticket.

APG OKTOBERFEST SEPTEMBER 16-17

More details to follow at www.apgmwr.com.

LEISURE & RECREATION

JERSEY BOYS DISCOUNT TICKETS

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

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

CHILD & YOUTH SERVICES

SCHOOL TRANSITIONS AUGUST 16

Bldg. 2503, Room 214. 9:30 to 10:30 a.m. for incoming sixth graders; 12:30 to 1:30 p.m. incoming ninth graders. Free event to ease transition to middle school or high school; registration is required. To register, call 410-278-7571. For more information, contact Stacie Umbarger at 410-278-2857 or stacie.e.umbarger.naf@mail.mil.

FAMILY MOVIE NIGHT AUGUST 19

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

SPORTS & RECREATION

KAYAK EXCURSIONS AUG. 27

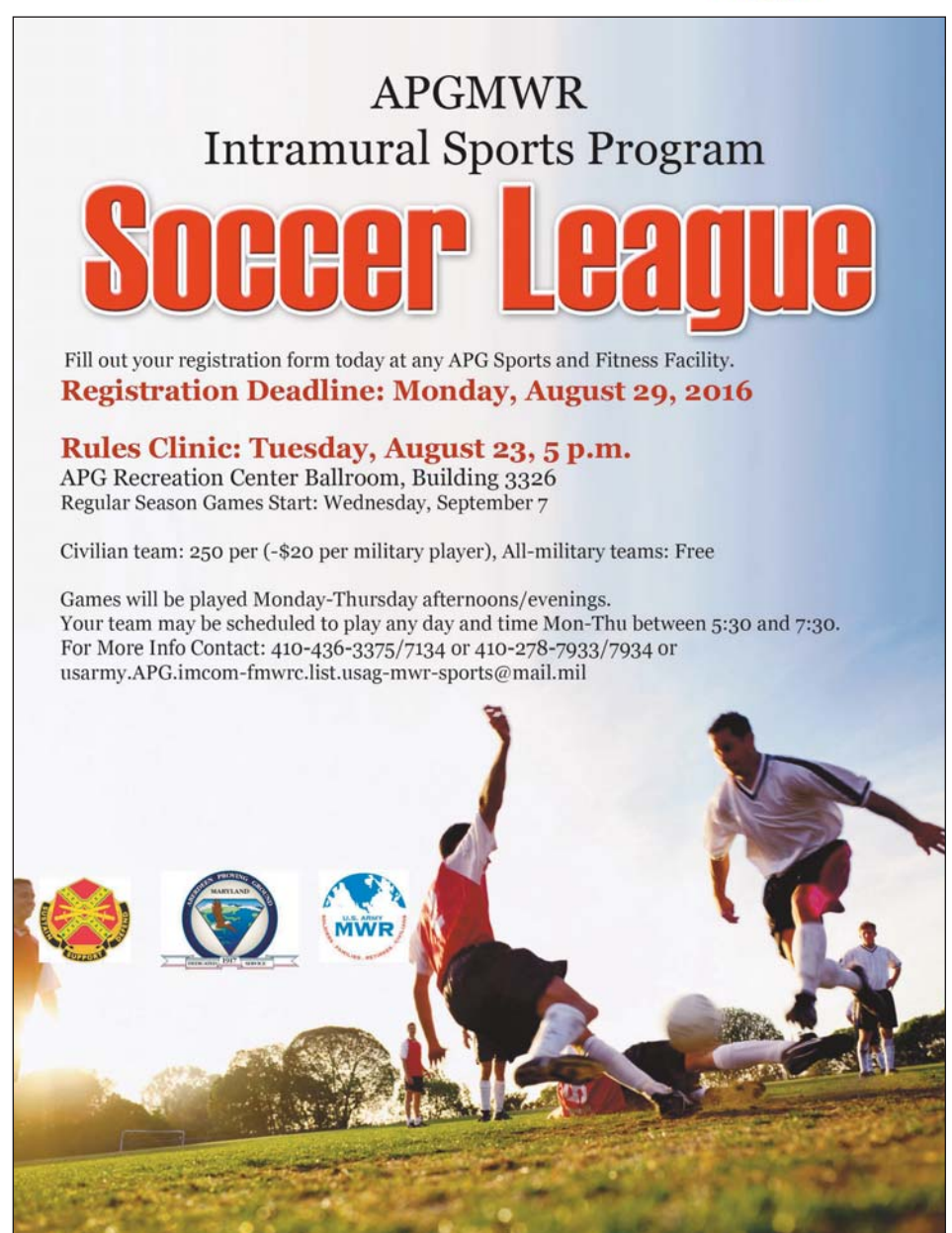
Excursions leave from Skippers Point. Cost is \$40 per person. 8 to 11 a.m. Aug. 27. Open to all eligible MWR patrons. Registration required, deadline is three days before class. Five days prior to class, excursion must meet minimum participants to take place. To register, call 410-278-4124/5789/2134/2135 or email usarmy.apg.imcom-fmwrc.list.usag-mwr-outdoorrec@mail.mil.

ADULT & CHILD GOLF OUTING AUG. 20

Exton Golf Course. 9 a.m. \$30. Includes hot dogs, chips and drinks. Pre-register at Exton Clubhouse. For more information, call 410-436-2213.

FLAG FOOTBALL AUG. 29

Registration Deadline Aug. 29. Rules clinic Aug. 24, 5 p.m. at APG North recreation center. Regular seasons starts Sept. 7. Civilian teams \$250, -\$20 per military player. All military teams are free. Games to be played Monday-Thursday 5:30 to 7:30. For more information, call 410-436-3375.



Learn more about APG MWR activities & services by going online at www.apgmwr.com and downloading the FMWR Directory.

inside

TESTING

ATC meticulously tests all new modifications to existing military vehicles to keep Soldiers safe.

Finding | B2

CYBER

Army drives toward stronger tactical cyber electromagnetic operations.

Cyber | B3

STEM

CERDEC hosts New Jersey School Board Association at Fort Dix.

CERDEC | B8

newsbrief

WIDEBAND SATCOM OPERATIONS CENTER

U.S. Army Space and Missile Defense Command

Wideband Satellite Communication Operations Centers (WSOCs) are critical operational centers that execute, coordinate, and direct the integration of the satellite control missions-related networks and information systems through transmission and payload control of the Defense Satellite Communications System (DSCS) and Wideband Global Satellite (WGS).

Through the WSOCs, U.S. Army Space and Missile Defense Command/Army Forces Strategic Command, commonly called USASMDC/ARSTRAT, develops and executes defensive space control tactics, techniques, and procedures to defend and protect U.S. government, non-USG organizations, and partner nations' wideband satellite communications, or SATCOM, capabilities.

WSOCs also provide and sustain the transmission and payload control infrastructure and resources to plan, manage, configure, control, and provide wideband satellite control in support of the commander for the Joint Functional Component Command for Space.

The Army's ability to communicate and execute mission command over satellite systems is critical to current and future operations. USASMDC/ARSTRAT will continue to manage the communications payload on each of the DSCS and WGS satellites in support of the services, agencies and international partners. The command will also continue to support satellite resource planning to meet the joint and Army warfighter's SATCOM requirements.

online

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



Photo by Conrad Johnson, RDECOM

Maj. Gen. Cedric T. Wins accepts the U.S. Army Research, Development and Engineering Command, or RDECOM, colors from Gen. Dennis L. Via, commander of the U.S. Army Materiel Command during a change of command ceremony at the Myer Auditorium Aug. 9. Wins replaces Maj. Gen. John F. Wharton who commanded the organization since September 2014.

Wins takes RDECOM reins

By DAN LAFONTAINE
 RDECOM

A new commanding general, Maj. Gen. Cedric T. Wins, took the reins of the U.S. Army Research, Development and Engineering Command Aug. 9.

About 300 Soldiers, Army civilians, con-

tractors and family members gathered for the traditional passing-of-the-colors ceremony at the Myer Auditorium as Wins assumed command from Maj. Gen. John F. Wharton.

RDECOM welcomes Wins

"I consider it a privilege to be given the opportunity to once again command. I am

excited about the opportunity at this command, to be part of this premier organization," said Wins, who was commissioned in the Field Artillery in July 1985.

Wins' previous assignment was as Direc-

See RDECOM, page B7

Scientists target trigger control

ARL takes aim at involuntary muscle twitch

Story and photos by DAVID VERGUN
 Army News Service

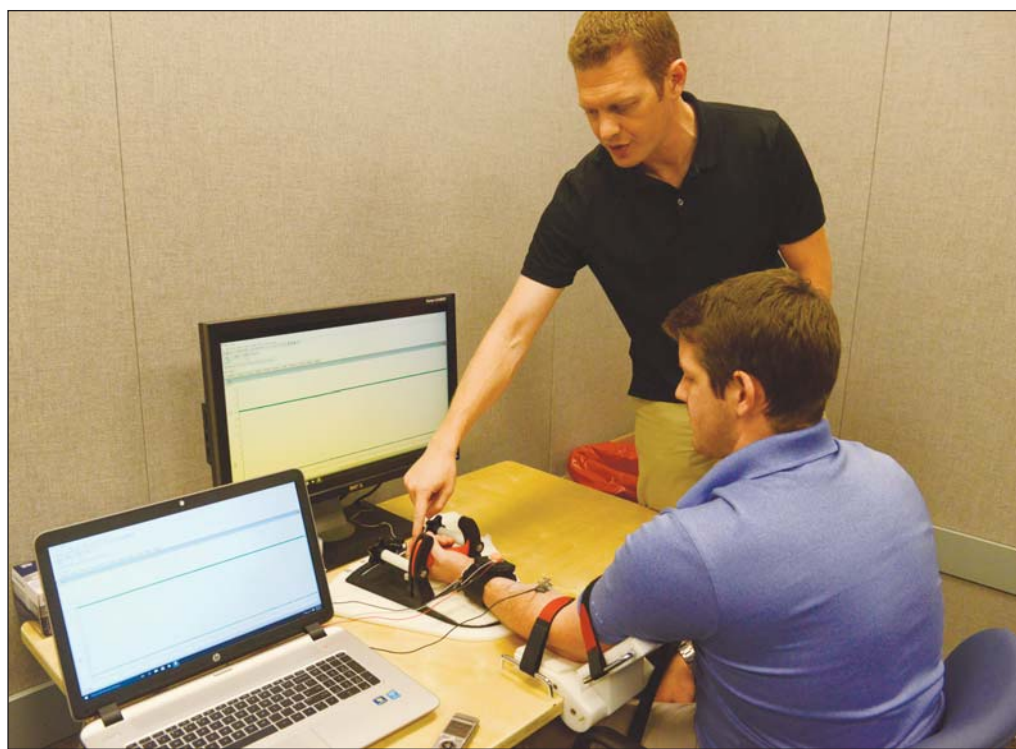
One of a Soldier's most fundamental and valued skills is the ability to shoot a weapon accurately.

In order to do that, several sub-skills are required, including trigger control -- the ability to smoothly squeeze the trigger, causing the weapon to discharge a round.

Trigger control can be learned and improved upon with practice, but there's a component of it that Soldiers don't have complete control of, and that has to do with involuntary muscle twitch that is often imperceptible to the shooter, said Dr. Matt Tenan.

That twitch, which is caused by imper-

See ARTIFICIAL, page B8



Dr. Matt Tenan, a kinesthesiologist with the Army Research Laboratory, points out the trigger pull device, hooked up to ARL physiologist Andrew Tweedel, July 28.

Assistant PEO promoted to general officer

PEO C3T

The Army promoted Col. Karl H. Gingrich to the rank of brigadier general during a ceremony at Top of the Bay on APG North (Aberdeen), Aug. 4.

Brig. Gen. Gingrich recently joined the Program Executive Office Command, Control and Communications-Tactical (PEO C3T) as the new Assistant Program Executive Officer for Operations, Readiness and Fielding.

See NEWLY, page B7



Lt. Gen. John Murray, left, deputy chief of staff, G-8, administers the oath of commissioned officers to newly promoted Brig. Gen. Karl Gingrich, right, during a ceremony at Top of the Bay, on APG North (Aberdeen), Aug. 4. Gingrich is the new Assistant Program Executive Officer for Operations, Readiness and Fielding under the Program Executive Officer for Command, Control and Communications-Tactical.

Photo by Ryan Myers, PEO C3T

DOD deputy secretary views future, current, ARL advanced technologies

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

The Department of Defense's number two official spent time with scientists and engineers at the Army Research Laboratory, or ARL, Tuesday, Aug. 2.

Deputy Secretary of Defense Robert O. Work inspected technologies that align with DOD's vision of the "Third Offset Strategy," advanced projects in areas like robotics, miniaturization, and manufacturing that are meant to ensure the United States can maintain military superiority without matching an adversary plane-for-plane, tank-for-tank or troop-for-troop.

During the visit, Army engineers demonstrated a robot exploring its terrain in real time and teaming with a human operator to provide what may become a situational awareness asset for future Soldiers.

"We see robots as teammates in support of the offset strategy," Dr. Stuart Young, chief of the laboratory's Asset Control and Behavior Branch, told the deputy secretary. "Currently robots are tools, and we want to make them organic team members with our Soldiers."

Work also observed the laboratory's efforts in additive manufacturing, otherwise known as 3-D printing.

"We're working on structural hybridization," explained LJ Holmes, the laboratory's lead for additive manufacturing. "We have a facility with additive manufacturing, or 3-D printing equipment. It's not feasible for us to send that into the field -- at least not right now."

Holmes said they are working on processing multiple materials in one box.



Photos by Jhi Scott, ARL
Deputy Secretary of Defense Robert O. Work, left, learns about the Vertical Load Offset System, a device designed to lighten the load by shifting a helmet's weight to the shoulders from Army materials scientist Dr. Shawn Walsh, right, and Army Research Laboratory technician Mike Thompson, center.

"We have equipment specifically designed to print metals, but through the work we've done here at [ARL], we can process metals, ceramics, polymers and glass on one machine."

The idea is that in the near future these devices will be capable of printing a part for a truck suspension one day, and ceramic body armor the next, whatever is needed on-demand at the point of use, he said.

Army scientist Dr. Jean Vettel and her

team demonstrated how the lab is capturing data straight from the brain and enhancing machine learning.

"Whenever we want humans and machines to work well together as a team, one of the challenges is how to get more knowledge about the human," Vettel said. "Our goal is to find out how we can do neuroscience where we can start quantifying individuals and then design individualized technologies."

Army engineers also showed the Joint Tactical Aerial Resupply Vehicle, or JTARV, a rectangular-shaped quadcopter that can carry up to 300 pounds of cargo within a 10-mile range.

"In a firefight, when a Soldier is running low on ammunition, resupply is critical," said Sgt. 1st Class Daniel Guenther, an enlisted advisor at the laboratory. "I've had situations where speedballs were dropped off to me by helicopters."

In military jargon, a "speedball" refers to a bag of supplies, usually ammunition, dropped from a plane or helicopter to Soldiers in the field.

"What are the implications of that?" asked Army researcher Tim Vong. "We're working with users in the joint community to look at this concept."

ARL transferred the Joint Tactical Aerial Resupply Vehicle program to the Armament Research, Development and Engineering Center at Picatinny, New Jersey, but the lab researchers still serve as experts on matters like aeromechanics, propulsion, intelligence and controls. The Marine Corps recently joined the program.

During the half-day visit, several other scientists and engineers showcased additional technologies, such as innovative advances in active armor protection and materials sciences.

"Our mission is to organize, train and equip a joint force that is ready for war and that is operated forward to preserve the peace," Work said.

Work has likened his role to the chief operating officer of one of the biggest corporations on the planet with the responsibility to build the defense portfolio.

Finding a safe balance for vehicle improvements

By **BRIAN S. HILL**
Aberdeen Test Center

Because military personnel need continually improved equipment, testing at the Army Test and Evaluation Command's Aberdeen Test Center, or ATC, takes vehicles to the point of no return...and back.

ATC test professionals are often asked why they still test Humvees, Abrams tanks and other systems that have been used in the field for decades. Why do they need to climb the slopes again? Why do we keep doing brake stops?

Most people do not realize that these systems are constantly updated, improved or reengineered to improve their reliability and usefulness. Each modification changes the vehicles, sometimes drastically, with up-armor kits, stronger engines, larger payload capacities and so on. If the vehicle will be used in a risky tactical or combat situation, its performance must be fully understood before it is sent to the troops.

A truck driven in a convoy at 70 mph in theater, for example, must be able to stop quickly, swerve at a moment's notice and not overheat while climbing mountains.

The Automotive Instrumentation Division specializes in testing these systems, and the most aggressive exercises performed may be steering and handling maneuvers. These tests use state-of-the-art instrumentation packages to measure parameters, and the vehicles are fitted with outriggers for safety. The outriggers are designed in-house with the Instrumentation Development Division and then fabricated by the Experimental Fabrication Division. Each set is custom built and scalable, with movable weight sets to



An MTRV with outriggers undergoes a sine-with-dwell test at Phillips Army Airfield.

Aberdeen Test Center photos

mimic any payload the vehicle might be required to handle in the field.

Sine-with-dwell maneuver testing has been performed on all commercial vehicles sold after September 2011. The test involves accelerating the vehicle to approximately 50 mph with no steering or braking, coasting in the highest gear and robotically applying a steering control to create a dramatic steering maneuver. The roll angle of the vehicle is measured to determine whether it passed or failed the test. Currently, each new commercial vehicle is equipped with an electronic stability control, or ESC, system.

In military vehicle testing, outriggers are needed to perform aggressive auto-

motive tests that push a vehicle past its design limits while mitigating risk to the operator and vehicle. During high-speed steering maneuvers, any vehicle will eventually reach a point of instability. If this condition is not corrected quickly, the vehicle will roll over. Outriggers prevent that catastrophe from damaging man or machine. Before an outrigger-equipped vehicle arrives at the ATC test course, the outriggers are stringently tested to determine if they can withstand the planned test loads. Also, extensive engineering analysis is done to determine the centers of gravity for each test condition, and the vehicle is tested on ATC's Tilt Table to determine its threshold for static rollover.

After a vehicle is tested in various configurations, the pertinent data is forwarded to evaluators and program managers to facilitate decisions on vehicle safety and fielding. Frequently, the test results will lead to changes in how vehicles are tactically deployed in the real world. Speed limitations, payload alterations, and safe and effective following distances are some of the areas in which our test data makes a difference.

The end result: safer and more robust and reliable vehicles that help Soldiers fulfill their missions.

Editor Note: Brian S. Hill is the chief, Automotive Instrumentation Division, Automotive Directorate

WORD OF THE WEEK

Mitigate

Pronounced: MIT-i-geyt

Part of Speech: Verb

Definition:

- Verb (used with object), mitigated, mitigating.
1. To lessen in force or intensity, as wrath, grief, harshness, or pain; moderate.
 2. To make less severe: to mitigate a punishment.
 3. To make (a person, one's state of mind, disposition, etc.) milder or more gentle; mollify; appease.
- Verb (used without object), mitigated, mitigating.
1. To become milder; lessen in severity.

Use:

- Drainage schemes have helped to mitigate the problem of overflowing sewage in water treatment facilities.
- He would have faced a prison sentence but for mitigating circumstances.
- Thousands of Americans use hearing dogs to mitigate deafness.

By **YVONNE JOHNSON**, APG News

Source(s): <http://www.oxforddictionaries.com>; <http://dictionary.reference.com>

ACRONYM OF THE WEEK

JMAC

Joint Mortuary Affairs Center

The JMAC and its personnel are tasked with the retrieval, identification, transportation, and burial of deceased American and American-allied military personnel. The JMAC trains, educates, and develops adaptive Mortuary Affairs professionals. Until 1991, it was known as the Graves Registration Service which was created several months after the United States entered World War I.

The current Army Military Occupational Specialty, or MOS, for the career field is 90A (a general code for officers across the Quartermaster Corps) and 92M for enlisted personnel.

A component of the U.S. Army Quartermaster Corps, the JMAC headquarters and school is located at Fort Lee, Virginia.

By **YVONNE JOHNSON**, APG News

Source(s): www.quartermaster.army.mil; www.wikipedia.org



Cyber Blitz, Cyber Quest drive toward stronger tactical cyber electromagnetic operations

By **KRISTEN KUSHIYAMA**
CERDEC

Anyone who attended the Armed Forces Communications and Electronics Association's TechNet Augusta 2016, inevitably heard the U.S. Army and industry partners emphasize Army Warfighting Challenge 7, the need for the Army to conduct space and cyber electromagnetic, or CEMA, operations and maintain communications.

The Army Warfighting Challenge 7 drove the focus of the Army's Cyber Blitz and Cyber Quest led by the U.S. Army Communications-Electronics Research, Development and Engineering Center, or CERDEC, and the Army's Cyber Center of Excellence respectively, according to organization representatives at AFCEA TechNet Augusta 2016 in Augusta, Georgia Aug. 2.

"Data at the edge is ever increasing. The need to synthesize that data into information and decision support is also ever expanding. The reality of pulling all of that data back to the core across limited tactical networks is not feasible," said Maj. Steve Roberts, Cyber Branch chief at the Cyber Center of Excellence Cyber Battle Lab. "The real challenge is to push data analysis to the edge and then harvesting useful and timely decision support output from it to the echelons above."

"We dealt with some of those challenges and lessons learned during Cyber Quest and Cyber Blitz," Roberts said.

Roberts and Dr. Michael Brownfield, CERDEC Space and Terrestrial Communications Directorate, addressed how the organizations' inaugural events looked to enhance Cyber in a Combined Arms Fight, which was also the theme for TechNet.

This year's events, which used operational forces to help shape and inform the events and findings, fed into one another and future events will look to transform the Army cyber and electronic warfare communities, according to the two panelists.

"These are complimentary events. We see CERDEC [Cyber Blitz] going after the lower TRL [technology readiness level] capabilities, Cyber Quest going after TRL 6 and 7, basically taking those concepts from the TCMs, defining experimentation so we can go after and refine these requirements and do a DOTMLPF



Photo by Spc. Kiara V. Flowers

Cyber Quest, led by the Cyber Center of Excellence, collected TRADOC DOTMLPF-P requirements and insights, employed cyber and EW functional prototypes, leveraged emerging government and industry technologies, and identified potential candidates for programs of record at Fort Gordon, Georgia during its July 2016 event.

Analysis" Roberts said.

As part of the U.S. Army Materiel Command, or AMC, CERDEC focuses on research and development of communications and electronics, while the Cyber Center of Excellence falls under the Training and Doctrine Command, or TRADOC, and writes Army requirements documents focusing on doctrine, organization, training, materiel, leadership, personnel, facilities and policy, or DOTMLPF-P.

"If you come out to Cyber Quest, what you get is America's engineers- all of them have operational experience whether they are wearing a green uniform or not, or they just took it off, they are very operationally oriented," Brownfield said. "If you come up to Aberdeen [Proving Ground where many of CERDEC's facilities are located], you have our bench of engineers and subject matter experts

that know the entire system and how to employ the entire system. It is deeper from an engineering perspective, but much shallower when it comes to understanding the operational environments."

The varying breadth of knowledge from each center allows them to pair up closely to better understand both technology possibilities and to fill in capability gaps.

Cyber Blitz

Cyber Blitz, led by CERDEC S&TCD, is a series of Army events looking at staff processes and operations concepts to inform research and development. Additionally, Cyber Blitz focuses on future acquisition and materiel development.

Cyber Blitz I: Converged Brigade Combat Team Main Command Post took place April 2016 at CERDEC Ground Activity at Joint Base McGuire-Dix-Lakehurst, New Jersey. It focused on how the Army could potentially converge

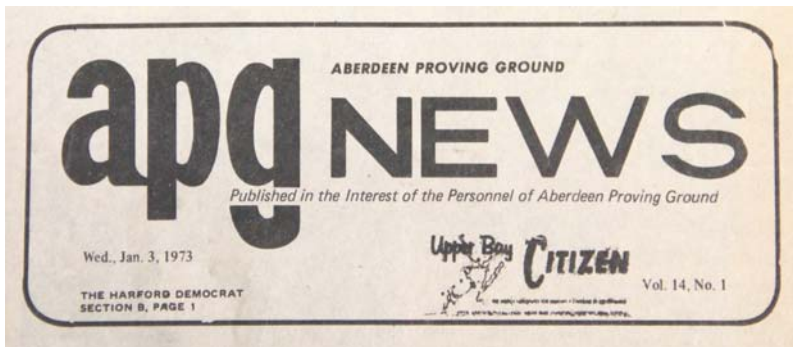
a BCT Main Command Post by demonstrating command, communications, computers, intelligence, surveillance, reconnaissance and targeting capabilities through various scenarios Soldiers could encounter, Brownfield said.

Findings from Cyber Blitz I will help inform and shape Cyber Blitz II, which will begin this fall with mini preparatory events dedicated to offensive and defensive cyber operations and the Department of Defense Information Network, or DODIN. A full execution of Cyber Blitz II will take place in April 2017.

Cyber Blitz II aims to address CEMA convergence across multiple warfighting functions within current operations to inform and synchronize S&T, acquisition, DOTMLPF-P, and Operational Forces will demonstrate assured electromagnetic ops while denying the same to regional-peer adversaries, Brownfield said.

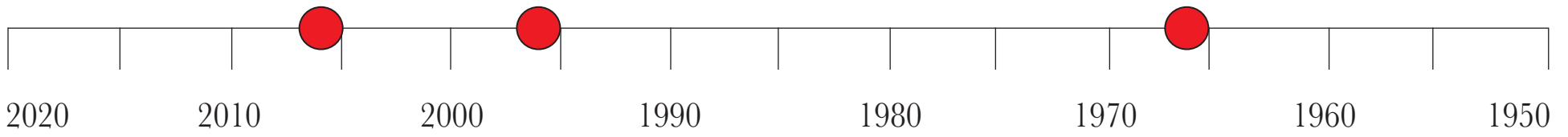
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THIS WEEK IN APG HISTORY



Take a look back in time as the APG News explores what made the headlines around APG during this week 10, 25 and 50 years ago. This week's APG News masthead is from 1973.

By **YVONNE JOHNSON**, APG News



10 Years Ago

Aug. 17, 2006

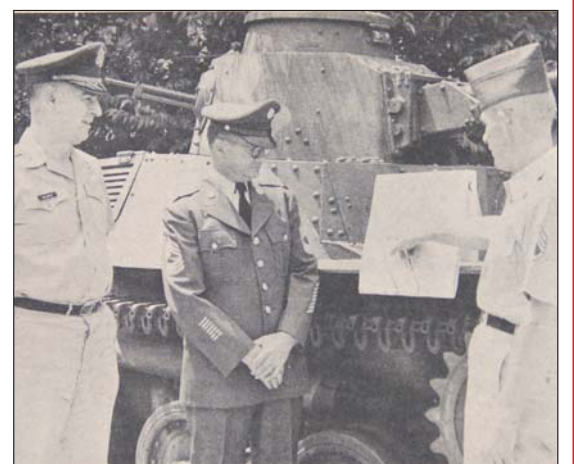
Col. David Craft, left, incoming commander of the 9th Area Medical Laboratory, passes the unit guidon to Sgt. Maj. Eric Smith during the unit change of command ceremony at McBride Parade Field.



25 Years Ago

Aug. 14, 1991

Joyce Watlington, a technical information specialist with the Human Engineering Laboratory, retrieves information in the organization's technical laboratory.



50 Years Ago

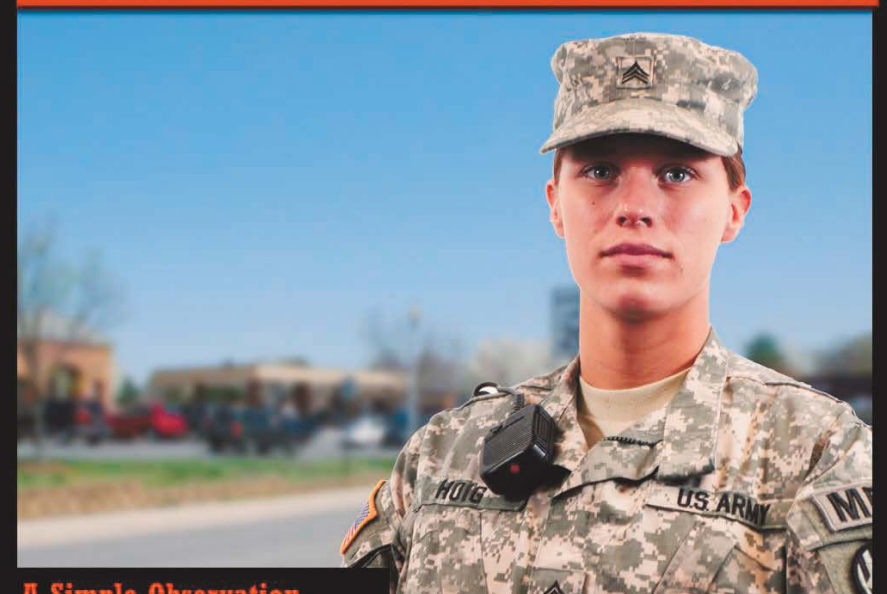
Aug. 11, 1966

Twenty-one years after the Japanese surrender, from left, Lt. Col. Robert Blank, Master Sgt. James Langley and Staff Sgt. John Perry recall their Pacific Theater experiences near a Japanese light tank on display at the Ordnance Center and School museum.

Send newspaper submissions to the APG News

Community members are asked to send all submissions for the APG News to usarmy.apg.imcom.mbx.apg-pao@mail.mil, and CC amanda.r.rominiecki.civ@mail.mil. Type APG NEWS SUBMISSION in the Subject Line. You should receive a response within three business days letting you know that the submission has been received. If you do not receive a response, please call 410-278-7274 to inquire.

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Visiting professor talks materials nanotech

U.S. Army Research Laboratory

A visiting professor discussed material nanotechnology and how defects can rule the properties of a crystal during a July 29 seminar for U.S. Army Research Laboratory, or ARL, scientists.

Dr. YuHuang Wang, associate professor of chemistry at the University of Maryland, told Army scientists and researchers at the Rodman Materials Research Laboratory how on the nanoscale, electrons, excitons, phonons and spin may strongly couple at defect sites.

“It is possible to block oxidation of carbon nanomaterials by protecting only those defect sites,” Wang said. “The ongoing collaboration with ARL allows us to demonstrate high-power thin-film thermoacoustics.”

Wang’s group at UMD and an ARL group led by Dr. Bryan Glaz in the Vehicles Technology Directorate have been engaged in developing a carbon-nanotube based thermoacoustic approach to directly interact with small scale features in turbulent flows.

“Our research addresses active control and interaction of turbulence through nonlinear dynamics,” Glaz said. “In a recent publication in the journal *Advanced Materials*, we demonstrated that carbon nanotube thermoacoustics can withstand a much higher power input when defects at the CNT walls are protected by atomically thin layer of aluminum oxide, without adding a weight penalty. This advancement was critical to enabling high amplitude excitation of small scale turbulence frequencies corresponding to high ultrasound.

Their work was highlighted on the cover of an *Advanced Materials* issue.

Associate Professor of chemistry YuHuang Wang, University of Maryland, tells Army scientists and researchers at the Rodman Materials Research Laboratory how on the nanoscale, electrons, excitons, phonons and spin may strongly couple at defect sites.

Photo by David McNally



As part of the ARL Open Campus initiative, the university and the laboratory collaborate in many areas leading to knowledge-building and research breakthroughs.

ARL fellow and senior research scientist Dr. Shashi Karna introduced Wang

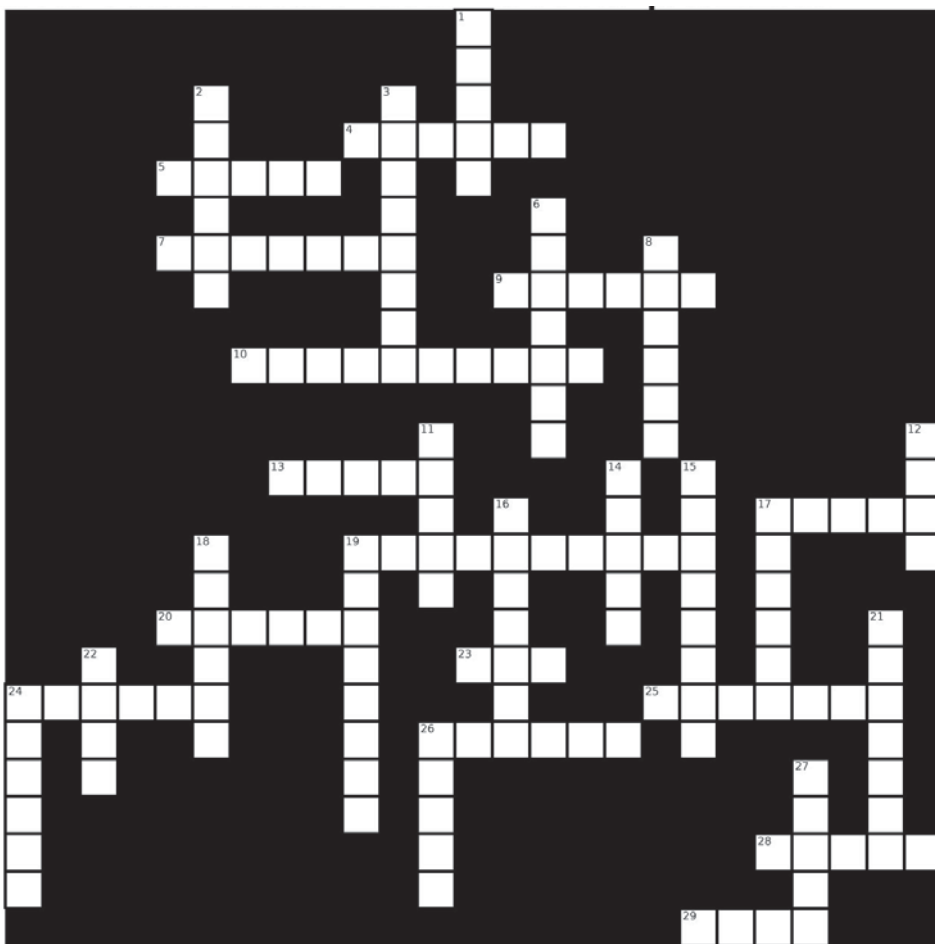
as a friend and respected colleague.

“I’ve been privileged to know YuHuang since two years before he finished his graduate degree,” Karna said. “He was a frequent visitor and became a friend.”

Karna said one of the reasons for

inviting Wang to speak is because of the many opportunities for collaboration.

“The University of Maryland at College Park is next door,” he said. “We have an Open Campus relationship and there are opportunities to work with this group.”



The APG Crossword

Love me tender, love me true

August 16 marks the 39th anniversary of Elvis Presley’s death. Celebrate the life and legacy of the King of Rock and Roll with this trivia puzzle.

By **RACHEL PONDER**, APG News

Across

- Presley was born on Jan. 8, 1935, in this Mississippi town.
- Before becoming famous, Presley drove a delivery truck for _____ Electric Company in Memphis.
- On Aug. 27, 1965, this famous rock group visited Presley in Bel-Air, California for an informal jam session.
- Presley’s fourth motion picture, “King _____,” released in 1958, was critically acclaimed.
- “_____ Hotel.” was

released as a single Jan. 27, 1956. It became Presley’s first #1 hit in the United States.

13. Number of pink Cadillacs Presley owned.

17. On June 3, 1953 Presley graduated from _____ High School in Memphis, Tennessee.

19. “_____ Minds” was first written and recorded by American songwriter Mark James before Presley recorded it in 1969.

20. This U.S. president issued a

statement that credited Presley with having “permanently changed the face of American popular culture.”

23. Number of years Presley was married.

24. Presley starred in _____-one movies during his lifetime.

25. Presley’s 1961 hit “Can’t Help Falling in Love” is based on the melody of an 18th century French love song, “_____d’amour.”

26. The 1956 movie, “Love Me _____,” was Presley’s first movie.

28. On Dec. 21, 1970, the King of Rock and Roll met this U.S. president.

29. On March 28, 1958, Presley arrived at Fort _____ Texas, for basic training.

Down

- Finish the song title recorded by Presley in 1956, “Don’t be _____.”
- For over 20 years, from 1955 to 1977 he was Presley’s manager.
- Presley wore many versions of this costume on stage.
- Presley met his future wife, Priscilla Beaulieu at a party in this country while serving in the U.S. Army.
- Age Presley received his first guitar.
- First name of Presley’s identical twin brother, who was delivered stillborn 35 minutes before him.
- The “_____ Marie” was the name of Presley’s Convair 880 jet.
- “_____ Blue” was the name of Presley’s final studio album, released by RCA the month before his death.
- As a child, Presley attended the _____ of God church.
- It is estimated that more than one _____ Elvis Presley records have been sold worldwide, more than anyone in record industry history.
- “Blue _____,” a 1961 musical comedy starring Presley, is about a young man who wants to spend his time surfing, but his family wants him to work in the family pineapple business.
- First name of Presley’s mother.
- On March 5, 1960, Presley was honorably discharged from the U.S. Army with the rank of _____.
- Presley only performed in three cities outside of the U.S.: Ottawa, Vancouver and _____, Canada.
- In the 1964 musical “_____

Las Vegas,” Presley co-starred with Ann-Margret.

24. Presley bought the Graceland mansion when he was _____-two for \$102,500.

26. Presley received _____ Grammy awards for Gospel recordings.

27. During his _____ appearance on “The Ed Sullivan Show,” Presley was filmed from the waist up.

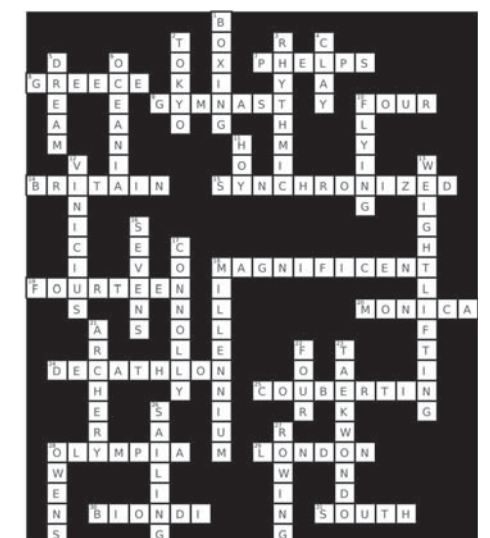


Courtesy photo

Presley in a publicity photograph for the 1957 film *Jailhouse Rock*

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

Solution to the August 4 puzzle



5 out of 5 doctors prescribe a weekly dose of the APG News

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www.TeamAPG.com



RDECOM honors outgoing commander's contributions

Continued from Page B1

tor, Force Development, Office of the Deputy Chief of Staff, G-8, since July 2015. The Army promoted him to major general in August 2014.

"Our challenge going forward is to demonstrate how we as a team continue to deliver the best technology today while maintaining technological superiority of the future force," Wins said. "Technology driven, warfighter focused. Army Strong!"

Gen. Dennis L. Via, the 18th commanding general of the U.S. Army Materiel Command, cited the many challenging positions that Wins has held during his 31 years of service. Wins' experience has prepared him well to lead RDECOM, Via said.

"Major General Wins knows about complex global organizations, and he knows how to lead them. The men and women of RDECOM are fortunate to have him take the reins of the command today," Via said. "Under your leadership, I am confident you will build upon RDECOM's successes and continue to ensure the command remains postured to provide the technological edge to the joint warfighter."

Wins holds a bachelor's degree in economics from Virginia Military Institute, a master's degree in management from the Florida Institute of Technology, and master's degree in national security and strategic studies from the National War College. For his official photo and biography, go to: <https://www.army.mil/article/172955>.

Wins becomes the eighth leader of RDECOM since its inception in 2004. Six major generals and Dale A. Ormond, a civilian Senior Executive Service member, have served in the leadership role.

Wharton bids farewell

Via recognized Wharton's contributions to reorganize and operationalize the command. Wharton enhanced integration and facilitated the delivery of future Army capabilities, Via said.

"John's leadership and strategic vision were instrumental in the development of science and technology strategies for Department of the Army initiatives in



Gen. Dennis L. Via, commander of the U.S. Army Materiel Command, left, shares words of wisdom with outgoing RDECOM Commander Maj. Gen. John F. Wharton after the change of command ceremony at the Myer Auditorium Aug. 9.

cyber, the human dimension and autonomy. It was during his tenure that RDECOM delivered the Multi-Mission Launcher and made significant progress in the areas of future vertical lift, degraded visual environments and autonomous vehicles," Via said.

Wharton, who was commissioned following his graduation from the U.S. Military Academy at West Point in 1981, had served as RDECOM commanding general since Sept. 22, 2014.

RDECOM was the second major subordinate command under AMC that Wharton led. The Army has not announced his next assignment.

"I want to recognize this most capable and unique organization known as RDECOM. I want to direct my com-

ments to the absolutely fabulous preeminent Soldiers, civilians and contractors that comprise RDECOM. Without you, we wouldn't have decisive overmatch for our armed forces," Wharton said. "I've tried to foster a culture of innovation and collaboration to make sure we could support the Army, joint warfighter and nation.

"It's been a distinct honor and privilege to command this organization. RDECOM is an unparalleled organization. My only metric is whether we're providing the decisive edge to the Army. We're giving our Soldiers the best equipment to fight the next fight. RDECOM will be critical to the future of the Army, and it's based on the power of the people in this organization."

RDECOM is composed of seven research centers and laboratories in the United States. The command extends across 11 countries in 132 locations with more than 13,000 military and civilian employees. RDECOM has more than 1,000 cooperative research agreements with industry, 1,500 R&D agreements with academia, and 500 R&D partnership agreements with Department of Defense laboratories.

The U.S. Army Research, Development and Engineering Command has the mission to ensure decisive overmatch for unified land operations to empower the Army, the joint warfighter and our nation. RDECOM is a major subordinate command of the U.S. Army Materiel Command.

Newly promoted Gingrich previously served in IMCOM G8

Continued from Page B1

Prior to PEO C3T, Gingrich served as the Director of Resource Management, G8, for Installation Management Command, or IMCOM. Other previous assignments include Army Staff Division Chief; Senior Fellow at the Brookings Institute; Deputy CJ-5 NATO Training Mission Afghanistan; Operations Research Analyst, Army G8; Chief, Iraqi Army Force Management, Multi-National Security Transition Command—Iraq (MNSTC-I);

Operations Research Analyst, Joint Staff, J-8; and Small Group Instructor, Armor Officer Advanced Course (AOAC). He also served as Company Commander in 4-64 Armor, 3d Infantry Division at Fort Stewart, Ga. and Platoon Leader/Company Executive Officer in 1st Squadron, 11th Armored Cavalry Regiment in Germany.

Gingrich, who is from Philadelphia, Pennsylvania, is a graduate of Temple University with a Bachelor of Sci-

ence degree in Civil Engineering. He also holds a Master of Science degree in Industrial Engineering from the University of Louisville and a Master of Science from the Eisenhower School (then the Industrial College of the Armed Forces). His military education includes the Armor Officer Basic and Advanced Courses, United States Air Force Command and Staff College and the Industrial College of the Armed Forces.

Gingrich's distinguished career

includes being awarded the Legion of Merit, Bronze Star Medal, Defense Meritorious Service Medal, Meritorious Service Medal, Joint Service Commendation Medal, Army Commendation Medal, Joint Achievement Medal and Army Achievement Medal.

Lt. Gen. John M. Murray, Deputy Chief of Staff, G-8, hosted the ceremony, which was well attended by Gingrich's family, as well many Army leaders and officers.



DID YOU KNOW ?

In September 1918, the U.S. Coast Guard cutter Tampa, while assigned as an ocean escort, was sunk by a German U boat during its Gibraltar to the United Kingdom run.

The cutter Tampa distinguished itself during the war. Under the command of Cap. Charles Satterlee, she sailed from New York Sept. 16, 1917 for service in European waters. The Tampa proceeded to Gibraltar via the Azores Islands and was assigned to a division of escorts convoying between Gibraltar and England. On Sept. 5, 1918, Rear Adm. Albert P. Niblack, commanding the U.S. naval forces based at Gibraltar addressed a special letter of commendation to Captain Satterlee for successfully escorting 18 convoys between Gibraltar and the United Kingdom without incident.

On the evening of Sept. 26, 1918, the Tampa, having completed an escort duty, was headed toward the Milford Haven, Wales when at 8:45 p.m. a loud explosion was heard by the convoy. Tampa failed to arrive at its destination. When U.S. destroyers and British patrol craft searched the area they found only a small amount of wreckage belonging to the Tampa and two unidentified bodies in naval uniforms. It is believed that Tampa was sunk by UB-91 which reported sinking an American warship fitting Tampa's description. Of the 114 personnel lost, 111 were Coast Guard personnel. It was the largest loss of a Coast Guard unit during the war. An additional 81 Coast Guardsmen lost their lives in World War I due to accident or illness. In the end 8,835 men served in the Coast Guard during World War I.

By **YVONNE JOHNSON**, APG News
Source(s): <http://www.uscg.mil/history/>



Courtesy photo
It is believed that Tampa was sunk by UB-91 which reported sinking an American warship fitting Tampa's description in September 1918.

5 ways to reuse your copy of the APG News

1. Protect fragile items before storing them or sending them in the mail.
2. Line pet cages or litter boxes to keep them tidy.
3. Save the counter from a gluey, glittery mess during your next craft project.
4. Clean glass or windows for a streak-free shine.
5. Make a weed barrier in a flower bed or garden before laying new topsoil.



CERDEC hosts NJ educators to share Army's STEM-related career opportunities

Story and photos by
KIRSTEN KUSHIYAMA
CERDEC

More than 60 school officials and teachers from the New Jersey School Boards Association, or NJSBA, participated in a professional development day hosted by the U.S. Army July 15.

The event hosted at the Army Materiel Command's Communications-Electronics Research Development and Engineering Center, or CERDEC, Ground Activity allowed educators and school board members to see how the Army relies on research, development and engineering.

"Our educators need to know that the Army has a Research, Development and Engineering Command, a two-star command, that they utilize STEM [science, technology, engineering and math] to apply the scientific method to solve problems and think critically to give back to the force whether it's Army, Navy, Air Force. A lot of the technology here goes out to the greater world," said Capt. Carl Hartman, company commander, U.S. Army Central Jersey Recruiting Company, Mid-Atlantic Recruiting Battalion.

"Many of the engineers out here today got their start in the military," Hartman said. "A lot of people for various reasons over the last 15-16 years – I feel they think the Army is predominately about combat arms – infantry, armor, artillery, maybe combat engineering, when in fact that is only about 20 percent of Army careers, while the other 80 percent of jobs in the military have everything to do with science, technology, engineering, arts and math."

In addition to careers in the military, there are career tracks students could consider as part the Army's civilian workforce.

"Ideally what we would like is at some point to have students be interested in the work we do here, and they might be interested in pursuing technical or engineering school to make doing this type of work a career for themselves," said Joseph Ryan, CERDEC Ground Activity, acting trail boss.

The event came as a result of a year-and-a-half long pilot program by the NJSBA in which the Army allowed a sergeant first class to imbed with the association in order to advise and inform New Jersey school boards about the Army's science, technology, engineering, arts and mathematics, or STEAM, capabilities.

The Army and NJSBA relationship allows the schools to leverage Army resources such as STEAM and STEM programming, while the Army can demonstrate its non-combat arms expertise.

"This is a unique pilot program with having the sergeant in our organization, and what we've learned in particular is that the message is getting out to our community that the Army is the



(Above) New Jersey educators and school board members attended a New Jersey School Boards Association Professional Development Day at Joint Base McGuire-Dix-Lakehurst, New Jersey, July 15. (Right) The NJSBA, the Central NJ Recruiting Company and the CERDEC Ground Activity teamed up to expose New Jersey educators and school board members to the research and development side of the Army.

STEM in focus

STEM in focus is a recurring series in APG News highlighting Science, Technology Engineering and Math (STEM) on APG. From countless student educational outreach programs to an array of scientific, technological and engineering personnel contributing to diverse missions, STEM is abound on the installation and APG News aims to bring it all into focus. To suggest topics for the STEM in focus series, email amanda.r.rominiecki.civ@mail.mil.

number one technology company," said Vincent DeLucia, NJSBA educator-in-residence and director of professional development.

This Army-NJSBA relationship is considered to be the first of its kind in the country, DeLucia said.

The professional development day at the CERDEC Ground Activity, which is part of CERDEC's Space and Terrestrial Communications Directorate, served a variety of purposes to include providing school officials and teachers an opportunity to see the practical, real-world application of STEAM; demonstrating the increasingly high-tech nature of the Army; and learning more about both military and civilian career paths available to students interested in STEAM, according to Sgt. 1st Class George Johnson, U.S. Army iSTEAM fellow who is imbedded with the NJSBA.

There was a heavy focus on potential STEAM-related career opportunities on the military and civilian side for educators and school decision makers to pass along to their students for consideration, Johnson said.

Participants learned through lectures, demonstrations and hands-on experiences how the CERDEC Ground Activity uses field-based risk reduction, a process of field experimentation used to mature and validate emerging technologies to better transition a technology to an operational capability for use by the Army and its partners.

The day was set-up to accommodate different learning styles of those present and those unfamiliar with the Army and Army research, development and engineering requirements, said Susan Sodon, CERDEC Ground Activity.

"We wanted to give them an expe-



rience where they could see and touch it all and not just be lectured," Sodon said.

Moving forward, the Army and the NJSBA will look to refine the professional development day.

"If we claim to care about kids, if we claim to care about the future of young people, it is incumbent upon us to make sure that they have the information and the opportunity to make decisions about their future," said Dr. Lawrence Feinsod, NJSBA executive director.

"The days of shunning the military or saying you can go in the back door has got to come to an end. The new Army, the new military offers incredible opportunities for young people, and we must share that information about the new Army and the new military with our parents, and with our students and with our staff," Feinsod said.

Artificial trigger reduces impact of muscle twitch

Continued from Page B1

fect signals transmitted from the brain via neurons down to the finger muscle, can instruct the muscle to contract and thus cause the Soldier to pull the trigger, explained Tenan, a kinesthesiologist with the Army Research Laboratory, or ARL, who spoke Thursday, July 28, during a media day event.

After a full day's rucksack march in brutal heat, a Soldier's ability to smoothly pull the trigger and accurately hit a target has been shown to decline as the signal from the brain weakens due to fatigue, he said.

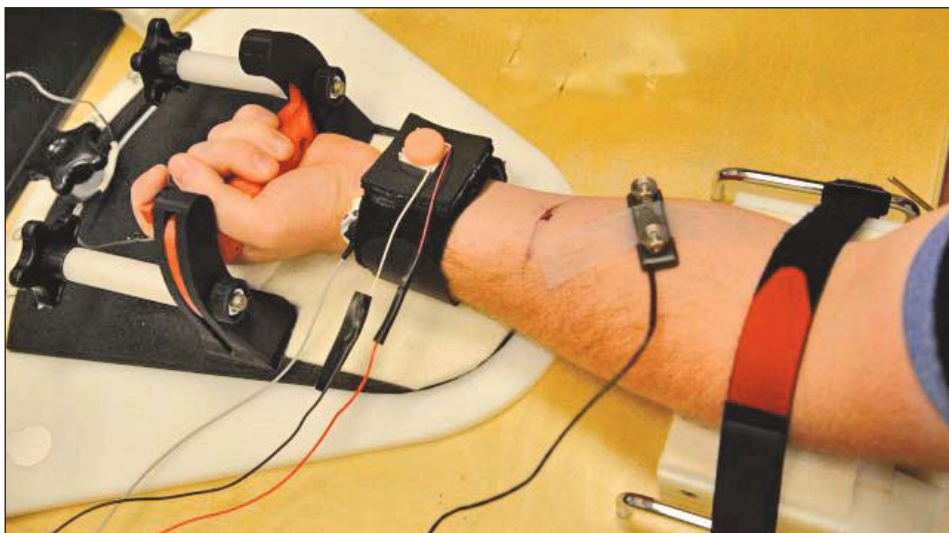
Tenan has been working to attenuate muscle twitch to allow a smoother trigger pull, sometimes referred to as trigger squeeze, even as fatigue sets in. The research involves using an electrical device to optimize how the brain controls muscles.

About the device

The device Tenan is working on doesn't have a name yet. But it uses an artificial trigger containing a force transducer, which measures the amount of a person's trigger pull.

That's just one of four components that make up the device. The second is a piezoelectric vibrator hooked up to the person's wrist. The third is a wire -- twice the thickness of an acupuncture wire -- that is stuck into the person's muscle, without causing pain or blood.

The wire is in turn connected to the fourth component, an ultrasound device that detects muscle activity and



The Army Research Laboratory at Aberdeen Proving Ground has invented the trigger pull device, hooked up to ARL physiologist Andrew Tweedel, July 28. At his fingers is an artificial trigger. On his wrist is the vibrator. To the right of the vibrator is a very tiny wire monitoring muscle movement and to the right of that is the ultrasound transmitting device. To the right of that is a strap to hold the arm steady.

outputs that activity in the form of sine waves on a computer screen.

Smoothly curved sine waves indicate smooth trigger squeeze and chopped or jerky sine waves indicate erratic trigger squeeze.

Key stimuli

The key component of the device is the vibrator, Tenan said. When the vibrator is turned on, it recruits more muscle cells to contract. That signal is strengthened because the neurons connecting the muscle to the brain are out-

putting a greater chemical discharge to the muscle fibers.

The vibration, he said, is set at a sub-sensory level, meaning the person the device is hooked up to cannot detect it.

"We've known the basics of how human movement has been controlled for 20 to 30 years," he said. "But here, we're trying to optimize it in a specific muscle," that being the trigger finger.

That vibration smooths trigger pull is known because of research at ARL, but according to Tenan no one under-

stands why it occurs.

"We just know it happens," he said.

Vibration is just one of several kinds of stimuli that can smooth a trigger squeeze. Researchers have found that electrical stimulation and noise stimulation have similar effects when tested separately.

Researchers at ARL are honing in on the vibration stimuli, Tenan said, because it's simpler to use a battery and an oscillator to produce the vibration in battlefield conditions.

Future possibilities

Tenan said it's not the job of his lab to produce a working device for Soldiers. Instead, researchers conduct the basic research that could someday be used to meet Army requirements, if such a requirement is ever expressed.

"Something like this might be built into the handgrip of a weapon that may apply stimulation to the human that they can't feel, but is increasing the steadiness and probability of hitting a target," he said.

Some have compared Tenan's device to the Da Vinci Surgical System used by surgeons to operate in a more smooth and controlled fashion.

While the goals of the Da Vinci and the trigger-pulling device are the same, the techniques are different, he explained. With Da Vinci, a robot controls the movement. The trigger pull device, on the other hand, actually modulates the human nervous system to control movement.