CECOM DOTS and DASHES

4 The Decisive Edge

9 Excellence in our Workplace

12 History Highlights

22 Around the Command

APG community bids farewell to former commander of CECOM

By Robert DiMichele, CECOM Public Affairs Officer

Aberdeen Proving Ground, Md.-The Aberdeen Proving Ground community said goodbye to Maj. Gen. (P) Robert S. Ferrell, former commander of the U.S. Army Communications-Electronics Command, Tuesday, Jan. 7, at a dinner event on the installation.

Ferrell received Senate confirmation of his third star and new assignment to the position of Chief Information Officer/G-6, Office of the Secretary of the Army Dec. 20. He relinquished command Dec. 23.

As the Chief Information Officer for the Army, Ferrell is now responsible for delivering world-class enterprise services, enabling network capabilities, and developing information technology policy and architecture to direct information technology activities across the Army. As the G-6, Ferrell represents the operational commanders' interests in ensuring the network enables a smaller, more capable Army. His promotion ceremony to lieutenant general will be Friday, Jan., 24 in the Pentagon.

About 120 command, installation and community leaders turned out to honor the general's accomplishments as the CECOM commander and the senior commander of APG. "Tonight we honor and say farewell to a great leader, teacher and mentor," said Col. Charles Gibson, CECOM's Chief of Staff, who provided the opening remarks.

The mayors of Aberdeen and Havre de Grace expressed their gratitude for Ferrell's emphasis on local community relations and his theme of transparency and engagement. Representatives from the state and federal governments provided proclamations recognizing Ferrell's leadership at CECOM and APG. Ferrell was presented a resolution from the President of the Maryland State Senate, Thomas V. Mike Miller, Jr., "... in recognition of leading a number of initiatives to foster and build the relationships between

cover story continued on page 2

Can you decode what's in this box?

- .... . + -. . - .-- --- .-. -.- + ... + - .... . + .- .-. -- -.-- ... + + -- --- -.. . . -. -. .. --.. .- - .. --- -. + .--. . -. .. --- .-. .. - -.--

To find the answer, go to page 25.

the installation and the local communities." During Ferrell's command tenure, he received recognition as the Military Leader of the Year by the Association of Defense Communities for his community outreach initiatives.

Representatives of Aberdeen's Signal Corps Regimental Association chapter also presented Ferrell with the Silver Order of Mercury Award. The award is the Signal Corps Association's highest and is only presented to those who stand above their peers and have made conspicuous, long-term significant contributions to the U.S. Army Signal Corps.

Col. Patrick Kerr, commander of CECOM's Information Systems Engineering Command at Fort Huachuca, Ariz., reflected on Ferrell's unwavering commitment to others. "... I have probably known Gen. Ferrell the longest in this room, since he was Capt. Ferrell and I was Lt. Kerr. He has always been known to look out and take care of people and that has never wavered. His focus, drive, and follow through have always been the same."

Monique Ferrell, the general's wife, was also recognized for her support of the APG community. Gary P. Martin, deputy to the commanding general of CECOM and now the command's acting director, presented Mrs. Ferrell with the Department of the Army Certificate of Appreciation for Patriotic Civilian Service. Mrs. Ferrell received the award for her "selfless contributions to the Soldiers, civilians, and Families of CECOM and Team APG."

During the farewell event, Ferrell said that "the saddest words I heard were former CECOM commander and former commander of APG." He thanked everyone for their support and attributed his success to that support. "This promotion to lieutenant general is our promotion. Our unconditional relationship allowed us to achieve great things no matter what the obstacle. This would not have been achieved without you."

Ferrell concluded by saying, "You have a good thing going at APG. You have the magic here. Continue that magic. Take care of one another. This will remain a model for the Army- a national treasure."

During his closing remarks, Martin said to Ferrell, "In our first conversation, you talked about focusing on a few priorities: providing support to the warfighter; taking care of people; partnership with the community; and positioning CECOM for an era of declining resources. All of these were achieved."

As acting director, Martin now assumes the senior leadership role for CECOM until a new commander is named. Gibson has assumed the role of acting installation commander of APG.

(Left) Maj. Gen. (P) Robert S. Ferrell receives a duck decoy from the honorable Michael Bennett, Mayor of Aberdeen.

(Right) Martin, presents Monique Ferrell (center) wife of Maj. Gen. (P) Ferrell (left), with a Department of the Army Certificate of Appreciation for Patriotic Civilian Service.

CSM Kennis J. Dent

COMMAND SERGEANT MAJOR'S PERSPECTIVE

The beginning of a new year often symbolizes the notion of a blank slate and presents opportunities to embark on new challenges and accomplish new goals.

By now, I am sure that all of your new year resolutions are in full swing. Whether they include goals of making better financial decisions, enhancing your lifestyle with healthful nutrition and exercise, or finally pursuing that hobby you always meant to start, resolutions are designed to foster improvement and self betterment.

We as a command must also resolve to seek new ways to improve ourselves by becoming more effective and efficient. We must strive to improve our business processes and to become leaner, while consistently maintaining our role as the Critical Link for providing and ensuring the global readiness of networked C4ISR capabilities to the warfighter. In this environment of constrained fiscal resources, we must transform ourselves and utilize innovative solutions to accomplish the mission in the most cost effective manner possible.

"It is not about working harder, but smarter."

One of the key initiatives that CECOM has begun that will help prepare us for the new era of C4ISR-focused capabilities in a constrained fiscal environment, is that of streamlining the command's field support strategy. This restructuring of CECOM's field support reduces the reliance on contractor field support representatives and creates multi-functional government FSRs in a regionalized approach. This reinvestment in our Soldiers focuses on those who are operating and maintaining their own equipment at the unit level as they had been doing prior to the contingency operations in Iraq and Afghanistan. However, this Soldier-centric strategy cannot be accomplished without the tireless support and innovative expertise that the CECOM workforce provides. Therefore, we must reinvest our expertise through various forms of support and training to enhance that Soldier skill set at the unit level.

For example, CECOM is instituting a four-tiered structure for field support that will handle different levels of complexity:

- Tier 0 is simply having Soldiers operate and maintain their own equipment.
- Tier 1 still includes multifunctional support personnel located with the units at installations. This tier is designed to mimic the efficiencies of a call center by using a ticket system. It also provides staff trained on reception, staging, onward movement, and integration.
- Tier 2 support is system-specific and designed to escalate issues or problems beyond the knowledge at the field level. Experts based at regional hubs cover a designated geographic area minimizing response time.
- Tier 3 provides the most involved level of service because issues must be addressed by the original equipment manufacturer in order to be resolved.

CECOM is also expanding the role of the Signal Universities that train Soldiers on equipment that the U.S. Army Signal Center and School can't provide during initial entry training. We currently have 10 of these unit funded schools, eight in CONUS and two overseas. Whether it has been the Thunderbird University at Fort Huachuca, Ariz., or Eagle University at Fort Campbell, Ky., our capabilities are making Soldiers trained and ready.

So now, more than ever, your knowledge, skills, and abilities will be necessary to ensure that our Soldiers have the skills they need to achieve the level of readiness their unit must attain. We are and will continue to be the critical link that drives C4ISR solutions and readiness for our Joint Forces.

I wish each and every one of you a healthy and happy new year!

Army Strong!

Soldiers from the 51st Signal Battalion inventory equipment at Balad, Iraq. (Photo by U.S. Army Staff)

The mission of the LRC Drawdown Special Projects Office

By Cheryl Collins, Daniel Baum, and Rosemary Hayes, CECOM DD-SPO

In the spring of 2009, Team C4ISR created a Special Projects Office (SPO) to manage the drawdown of C4ISR operations and equipment in Operation New Dawn (OND) to meet Army Force Generation standards. CECOM was the lead and designated the Logistics and Readiness Center (LRC) to drive the SPO effort. The effort was named the CECOM Drawdown Special Projects Office (DD-SPO). Initially, the DD-SPO was primarily a contractor-managed effort.

The mission of the DD-SPO was to receive, process, package and ship equipment from units, supply support activities and Defense Reutilization and Marketing Operations prior to their departure from OND and Operation Enduring Freedom (OEF) and direct those items to appropriate CONUS sources for RESET or repair.

From March of 2009 through January of 2013, the DD-SPO provided logistical

support and dedication to the Army Field Support Brigades (AFSBs) throughout South West Asia for all C4ISR equipment in support of OND, Operation Iraqi Freedom (OIF), and OEF.

In early 2010, the DD-SPO began searching for ways to flex its manning levels throughout Iraq, Kuwait, and Afghanistan. Due to the requirements of specific workforce increases at multiple locations and the need to move personnel with relatively short notice, the LRC and Tobyhanna Army Depot collaborated during the major troop and equipment drawdown out of Iraq and Afghanistan

The DD SPO stood up two teams in Kuwait at Camps Arifjan and Buerhing; seven teams in Iraq at Al Asad, Baghdad, Balad, Kalsu, Mosul, Speicher, Taji, and Tallil; and nine teams in Afghanistan at Bagram, Jalalabad, Kandahar, Leatherneck, Marmal, Salerno, Shank, Sharana, and Shindand during three operations. The DD-SPO deployed approximately 191 contractors as well as over 280 Department of the Army civilians (DACs) from Tobyhanna, Red River Army Depot, and the LRC.

DD-SPO personnel were some of the first people and some of the last that the warfighter saw in theater. The DD-SPO briefed units during their in-processing to theater, and redeployment period on the RESET process for CECOM managed items. The DD-SPO, as part of the AFSB Redistribution Property Accountability Team (RPAT), worked closely with the units to identify RESET equipment, ensure that Army Reset Management Tool plans were executed, and disposition was provided within the prescribed timelines. Once a unit received its redeployment date, DD-SPO coordinated with the AFSB and the unit to determine when and where that unit would turn in its RESET equipment. Turn in locations depended on a number of factors including the size of the unit, scope of the turn in, and their current location. The unit may have had to travel to an established RPAT, the mobile RPAT may have traveled to the unit, or both entities may have traveled to a forward operating base that could accommodate the reception and onward movement of the unit and equipment. Once the equipment turn-in began, the DD-SPO team stood side by side with the Soldier and executed the mission. The unit cleaned the equipment prior to an inventory which then relieved them of accountability. DD-SPO missions ranged from 30 minutes to over 30 days in length, with each mission presenting its own unique set of challenges. The team's job was not finished until the equipment arrived back at the CONUS source of repair facility.

After 4 ½ years, the DD-SPO team of 472 LRC and TYAD DACs and contractors processed over 240 thousand CL II and VII items and 440,000 depot level repairables at a value of $2.3 billion. Not only were RESET times met, but 100 percent accountability and in transit visibility were achieved. The success of this effort can be attributed to one common denominator-the desire and drive of the DD-SPO to support the warfighter when and where they were needed.

CECOM-The Critical Link Driving C4ISR Readiness Worldwide.

PROVIDING THE

CRITICAL LINK

Information Systems Engineering Command (ISEC)

Support for the Global Broadcast System (GBS) - ISEC is supporting the Defense Information Systems Agency by installing a new satellite interface for the upgrade of equipment supporting the GBS at the Teleport office located in Wahiawa, Hawaii. This will significantly improve communications by facilitating an increased capacity for data and voice traffic. Wahiawa is the primary downlink point for the U.S. Pacific Command Area of Responsibility.

Fielding support for the Global Reaction Intelligence Terminal (GRIT) - ISEC recently provided fielding support to the Research, Development and Engineering Command for the fielding of the XVIII Airborne Corp's GRIT system. This system is significant because it will provide a rapid-deployable, jumpable SIPRNET/Joint Worldwide Intelligence Communications System capability for airborne units. ISEC successfully completed training, troubleshooting techniques, and terminal capabilities to users and senior leadership.

Software Engineering Center (SEC)

Cyber security software support - SEC is working in conjunction with Program Executive Office for Command, Control and Communications-Tactical to provide units in Korea the critical link for cyber security by supporting Host Based Security System (HBSS) implementation, protecting critical Korea-based intelligence and command and control systems from potential cyber attack. HBSS is a software tool that provides the ability to greatly increase the security posture of information systems connected to a network. CYBERCOM and ARCYBER directed the HBSS software loads to counter the increase in cyber threats along with the inevitability that they will eventually affect systems on classified networks, protecting Korea-based intelligence systems from potential threats. SEC is supporting HBSS implementation on 8th Army, 2nd Infantry Division, and 19th Expeditionary Support Command Army Battle Command Systems and Command, Control, Communications, Computers, Intelligence, Surveillance, & Reconnaissance systems, providing technical assistance during installation and implementation and on call assistance/support post implementation.

Force protection for Army aviators - SEC is providing the critical link to force protection for aviators deployed across the globe by supporting the U.S. Relational Electromagnetic Systems (USRELMS) with radar system development, quality control, and acceptance review; SEC is increasing mission effectiveness and situational awareness while preventing fratricide. Providing force protection for our warfighters in the Middle East region, SEC developed and released Mission Data Set ME 1004 to ensure force protection for AH-64D Apache Longbow aviators, crews, and aircraft by detecting and identifying the latest radar threats in the Middle East region. As the Executive Agent for Army Electronic Warfare Software Reprogramming, SEC's continuing Aircraft Survivability Equipment rapid reprogramming post production software support ensures aircraft and aviator protection against new and emergent threats across the globe.

Aviation Soldiers with Company C, 2-159th Attack Reconnaissance Battalion, Task Force Wings, 25th Infantry Division, collaborate to launch an AH-64D Apache Longbow helicopter prior to mission at Contingency Operating Location Sykes, near Tal Afar, Iraq. (Photo by Staff Sgt. Mike Alberts, 25th Combat Aviation Brigade Public Affairs)

Biometric tracking - SEC is providing critical support to Project Manager Biometrics, helping ensure the U.S. military maintains their ability to effectively establish the identity of people they encounter during military operations by enabling them to identify enemies and denying them the anonymity they need to hide and strike at will. SEC is coordinating the Certification and Accreditation effort for PM Biometrics' Automated Biometrics Identification System necessary since the current Authorization To Operate will expire in May of 2014, to ensure our Soldiers have uninterrupted biometric tracking capabilities to support ongoing operations.

Staff Sgt. Matthew Valek, uses a biometric camera to store data for a worker on Forward Operating Base War Eagle in northern Baghdad, Sept. 16. (Photo by Sgt. Zachary Mott)

Staff Sgt. Rick Ensley, 1844th Transportation Company based in Quincy, Ill., discusses an extraction plan with Illinois State Trooper Brandon Douglas, on Interstate 72, near Pittsfield. The Illinois National Guard worked with troopers to assist stranded motorists after Gov. Pat Quinn called approximately 500 Guard members to state active duty for a winter weather emergency. (Photo by Spc. Dan LoGrasso, 139th Mobile Public Affairs Detachment)

Homeland Security communications network integration - SEC is supporting Homeland Security by providing civil authorities and first responders with communications network integration. SEC's Joint On-demand Interoperability Network (JOIN) team met with the Chicago Police Headquarters Communication Network Operations Center, NORTHCOM Argonne National Laboratory, Ill., Emergency Management Agency and the National Guard Headquarters in Springfield, Ill., to discuss capabilities and gaps in their communication systems and to find solutions and improvements. The JOIN team is preparing for the Joint Users Interoperability Communication Exercise 2014, with the key objective of closing current communication gaps and lack of interoperability between federal and state controlled forces as well as lateral connectivity between state National Guard forces and first responders. SEC's continuing efforts to identify and close interoperability gaps is providing Homeland Security forces at all levels the critical communications required to coordinate effective operations in support of domestic emergencies.

New ULTRA facility opens on C4ISR campus

By Argie Sarantinos-Perrin, PEO C3T

Aberdeen Proving Ground, Md.– Three U.S. Army organizations have united to form the new Unified Lab for Tactical Radios (Army ULTRA), combining research, development, sustainment, and acquisition efforts for the Army's radio portfolio in a single location.

The new facility combines personnel and resources from the Communications-Electronics Command, Program Executive Office Command, Control, Communications-Tactical (PEO C3T), and Communications-Electronics Research, Development, and Engineering Center in order to provide economies of scale and better coordination of radio technologies throughout their lifecycle.

A ribbon cutting ceremony for the ULTRA facility, which is located on the C4ISR campus at APG, was held Jan. 7. The ULTRA facility will support the full lifecycle of Army radios, from research and development, to procurement and management, to sustainment. Radios represented in the lab include a variety of current program of record and commercial products managed by PEO C3T's Project Manager Tactical Radios, as well as legacy and future systems.

"The synergies that can exist on this campus are amazing for the Army," said Brig. Gen. Daniel P. Hughes, program executive officer for PEO C3T.

"This lab will enable a future for Army communications for our radio procurements and for the expansion and enhancement of the technology that we have in the field today."

The C4ISR campus is also home to other network laboratories and integration facilities, including the C4ISR Systems Integration Laboratory and the Tactical Systems Integration Facility. The facilities' interoperability, connectivity and close proximity will enable the information gathered in ULTRA to feed other activities and vice versa, eliminating duplicative efforts and redundancies.

"The idea of being able to share on the capital investments for laboratories, minimizing the investments from each of the organizations and then growing a workforce collectively that can work across the lifecycle will benefit us all," said Gary Martin, acting director, CECOM.

(L-R) Gary Martin, acting director, Communications-Electronics Command; Brig. Gen. Daniel P. Hughes, program executive officer for Command, Control and Communications-Tactical; and Dr. Paul Zablocky, director, Space and Terrestrial Communications Directorate, Communications-Electronics Research, Development and Engineering Center, cut the ribbon on the Unified Laboratory for Tactical Radios-Army Jan. 7, 2014. The new lab will combine research and development, sustainment and acquisition efforts for the Army's radio portfolio in a single location. (Photo by Chad Padgett, PEOC3T)

Excellence IN OUR WORKPLACE

CECOM Awards Program

The CECOM Awards program recognizes outstanding achievements by the workforce. The latest Awards Board met on Friday, December 13 2013 and approved the following awards:

Superior Civilian Service Award:

Cynthia A. Jackson
CECOM Legal Office
Aberdeen Proving Ground

Tommie G. Lindsey
ISEC
Fort Huachuca

Commander's Award for Civilian Service:

John L. Contevita
ISEC
Fort Huachuca

Achievement Award for Civilian Service:

Richard Albietz
Office of the G8
Aberdeen Proving Ground

Amber L. Kingery
CECOM Legal Office
Fort Huachuca

Antoinette S. Lopez
Office of the G8
Aberdeen Proving Ground

Janet Penaherrera
Office of the G8
Aberdeen Proving Ground

Tony D. Rose
Office of the G1
Aberdeen Proving Ground

Congratulations to our awardees!

Excellence IN OUR WORKPLACE

CECOM logistician named AMC LAR of the Year

By Marissa Anderson, CECOM Public Affairs

(R-L) AMC Deputy Chief of Staff G3/G4, James Dwyer, presents Garduno with the 2012 U.S. Army Materiel Command's Robertson J. Short Logistics Assistance Representative of the Year Award, Jan. 7, for his outstanding achievement, dedication, and performance as a LAR at Fort Hood, Texas.

Garduno, CECOM sensor and AMC LAR of the Year recipient, conducts training of Lightweight Counter Mortar Radar to Soldiers from 42nd CAB, of the New York National Guard and 3-82 FA, 2nd BCT, 1st CAV DIV, October 2013 at Fort Hood, Texas.

Fort Hood, Texas- Gregory J. Garduno was presented the 2012 U.S. Army Materiel Command's Robertson J. Short Logistics Assistance Representative of the Year Award, Jan. 7, for his outstanding achievement, dedication, and performance as a LAR.

A former Army radar repairer, Garduno has been serving as a CECOM Sensor LAR supporting Intelligence Electronic Warfare and Radar Systems for the 4th Brigade Combat Team of the 1st Calvary Division at Fort Hood, Texas, since 2010. "I am very honored to receive this distinguished award," said Garduno upon receiving the commendation. "I strive to support the warfighter because they are the real heroes."

The award recognizes an individual for outstanding achievement and support in the Logistics Assistance Program. LAR technicians embed with deployed units to provide guidance on weapons systems, equipment, and logistics problems.

Lloyd D. Hayslip, regional technical assistance manager for CECOM at Fort Hood, spoke highly of Garduno as an employee. "Garduno is an exceptional LAR who goes above and beyond the call [of duty] every day, supporting Soldiers and keeping supported equipment at near 100 percent readiness," said Hayslip. "He is extremely dedicated, possesses a solid work ethic, and has earned the highest levels of respect from his supervisors and peers. Garduno is a model team player who totally supports all aspects of the Logistics Assistance Program."

Garduno deployed to Kuwait in support of Operation Spartan Shield. During his deployment, he provided technical expertise in support of radar systems for the Kuwait area of operations, as well as assisting the Jordanian Armed Forces through an Acquisition and Cross-Servicing Agreement to repair their radars. "These radars were non-mission capable for nearly 10 years and through Greg's expertise they are now able to acquire live artillery fire," said Hayslip. He has also been deployed to Kandahar, Afghanistan and Baghdad, Iraq, during his service at CECOM.

continued on page 11

"After working with a LAR during a deployment, I realized this is the job for me. I enjoy my job and get a sense of accomplishment every time I can help a Soldier accomplish the mission," said Garduno.

Hayslip went on to discuss Garduno's commitment to the warfighter. "Mr. Garduno continuously provides superb logistical and technical support to the Soldiers who maintain the complex systems under his skill set. His knowledge of employing radars was sought out by commanders and his technical skills at training Soldiers to repair them were sought out by technical warrant officers. Mr. Garduno was very successful at supporting his units at all times resulting in no time loss to missions and exercises."

AMC initiated this award in 1985 to recognize and reward LAR excellence in the field. In 1988, AMC named the award in honor of former Army Missile Command LAR Robertson J. Short, for his meritorious contributions to the LAP. Short embodied the characteristics of dedication, commitment, selfless service, and honor.

Criteria for being eligible to receive the award includes outstanding logistics and technical support with favorably impacted Army readiness; successfully contributing improvements to Army operations such as cost avoidance and savings initiatives; support during contingencies and training exercises; and participation in self-improvement activities.

Software Engineering Center

Save the Date

Topic	National Information Exchange Model (NIEM) Military Operations (MilOps) Domain Overview
Date	12 February 2014
Time	1100-1200
Location	Virtual *Defense Connect Online*

The Office of the Army Chief Information Officer (CIO)/G-6, together with the Army Net-Centric Data Strategy (ANCDS) Center of Excellence, invites you to attend a briefing on the National Information Exchange Model (NIEM) Military Operations (MilOps) Domain.

NIEM is a standardized framework for the development of XML-based information exchanges for effective and efficient information sharing. It is an international, federal, state, local, tribal, and private initiative used to increase information sharing between organizations including the Department of Defense (DoD) and the Army.

This briefing will provide an overview of NIEM and the NIEM MilOps Domain. CIO/G-6 and the ANCDS Center of Excellence will be joined by DoD CIO for this presentation.

To register for this event, please visit https://www.surveymonkey.com/s/NIEM12Feb.

For questions on NIEM or this session, please contact Andrew Phelps at (443) 861-8487 or andrew.k.phelps.civ@mail.mil.

CSLA's Supply Discrepancy Report team awarded C4ISR Team of the Quarter

By Ray Husson, CECOM CSLA

(L-R) Members of the CSLA SDR Team: Melvin "Craig" Heinrich, Lora Otero, Nancy Calderon, and Jonathan "Shane" Christian (Photo by Doug Smith)

The C4ISR Team of the Quarter award for the 4th quarter of fiscal year 2013 was awarded to the Logistics and Readiness Center Communications Security Logistics Activity (CSLA) Supply Discrepancy Report (SDR) Team at Fort Huachuca.

The team was recognized for reducing an escalated backlog in SDRs that resulted from a post war surge. The backlog was reduced by over 50 percent from 450 to 214 records with a continuing downward trend.

During the same period, the team averted a potential Foreign Military Sales international incident, identified and corrected a mislabeled Logistics Modernization Program plant, and resolved a Fort Bragg shipping trend that allowed closure of multiple CSLA and other Army SDRs while averting future SDRs for similar shipping issues.

The award recipients will each receive the Army Achievement Medal for Civilian Service.

Coin for excellence

(L-R) Maj. Gen. John Wharton, commanding general, Army Sustainment Command presents a coin of excellence to James Redline, information technology systems analyst, Tobyhanna Army Depot, during a recognition ceremony held on Dec. 13, at the 402nd Army Field Support Brigade, Camp Arifjan, Kuwait. (Photo by Sgt. 1st Class Annett Simon, 402nd AFSB Public Affairs)

ISEC Awards Ceremony

Gary Martin, acting CECOM director, recently travelled to Fort Huachuca to visit the Information Systems Engineering Command (ISEC). He participated in an awards ceremony recognizing employees from ISEC and the Logistics and Readiness Center Communications Security Logistics Activity (CSLA). (Photos by Sonja Beatty)

John L. Contevita receives the Commander's Award for Civilian Service recognizing his leadership, technical expertise, and training skill set that enhanced the readiness of numerous units within the Army. (L-R) Col. Patrick Kerr, John Contevita, Gary Martin.)

Virgilio (Billy) Bohulano is recognized as the Fort Huachuca Civilian of the Month for December 2013 for his technical expertise, property management skills, and dedication to ISEC's mission. (L-R) Col. Patrick Kerr, Robert Lorentsen, Martin, Virgilio Bohulano, Command. Sgt, Maj. Brenda Kadet.

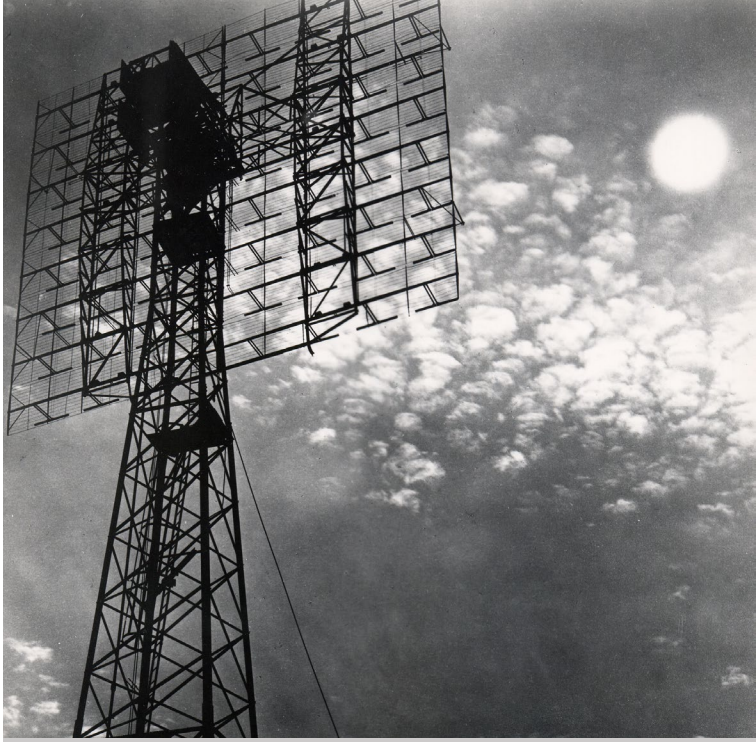
Personnel from ISEC and CSLA receive the CECOM Certificate of Achievement for outstanding performance of duty while serving as members of the CECOM G8, ensuring the command's financial assets were strategically positioned and effectively executed. (L-R) Col. Patrick Kerr, Mitchel Manning, Pamela Hegedus, James Canida, Joann Lawson, Cynthia Lotero, Marcene Moyle, Loretta Russell, Martin, Command. Sgt, Maj. Brenda Kadet

Caption: (L-R) Ariel Nieves (L) and James Canida (R) were recognized for 40 Years of Service with presentations by Gary Martin and Command Sgt. Maj. Brenda Kadet.

History Highlights

Project Diana ushers in the space age!

By: Chrissie Reilly, CECOM History Office



Named for the Roman goddess of the moon, Project Diana ushered in the space race.

In January 1946, the U.S. Army Signal Corps bounced a satellite signal off the moon with Project Diana.

This event marked the first time humankind contacted our 'natural' satellite, and it happened at Camp Evans Laboratories, in Wall, N.J. The project is named for the Greek goddess of the moon, Diana.

Radar was a top secret project leading up to World War II and allowed the military to detect aircraft from beyond the visual range. Radar effectively provided an advantage that allowed the United States and Allied forces to achieve victory in WWII. This technology worked across miles, but after the war, the U.S. Army wanted to research if the radar could work over ultra-long distances.

The signal emanating from the earth-based radar would have to be strong enough to leave the atmosphere, be positioned in such a way to hit the moon, and be directed appropriately so that the signal that bounced back could be verified by those on the ground. None of the radars used during WWII could generate a radar pulse that would traverse that distance without adjustments. At the time, scientists and researchers were unsure if these types of waves were capable of piercing through the atmospheric layers surrounding the earth, specifically the ionosphere.

Director of the Evans' Laboratories since 1943, John H. DeWitt, Jr., and his colleagues decided to generate a much longer radar pulse that lasted about a quarter of a second. This pulse was easier to detect than a shorter one. In order to extend the reach of radar to the moon, modifications had to be made to existing radar equipment. One of the few existing high-power radar sets capable of generating such a long pulse had been designed by Maj. Edwin H. Armstrong, inventor and developer of FM broadcasting. A crystal-controlled radar transmitter and receiver designed by Armstrong were selected since they met the requirements of power and bandwidth, even though their initial design was for another purpose.

In order to contact the moon, the experiment was able to utilize well-established radar techniques, but with radically different constants throughout the system. The experiment consisted of transmitting quarter-second pulses of radio-

continued on page 15

frequency energy at 111.5 MHz every four seconds in the direction of the moon. The first detected echo signals returned approximately 2.5 seconds after transmission at moonrise on Jan. 10, 1946. Project Diana members could both hear the return 'beep' and see the signals displayed on a monitor. This proved the feasibility of extraterrestrial radio communications.

Scientists and Signalmen knew this had to be the moon, because the technical characteristics of the system would not allow the radar echo to return from anything except an object such as the moon, and at a distance of about 240,000 miles or so from the earth.

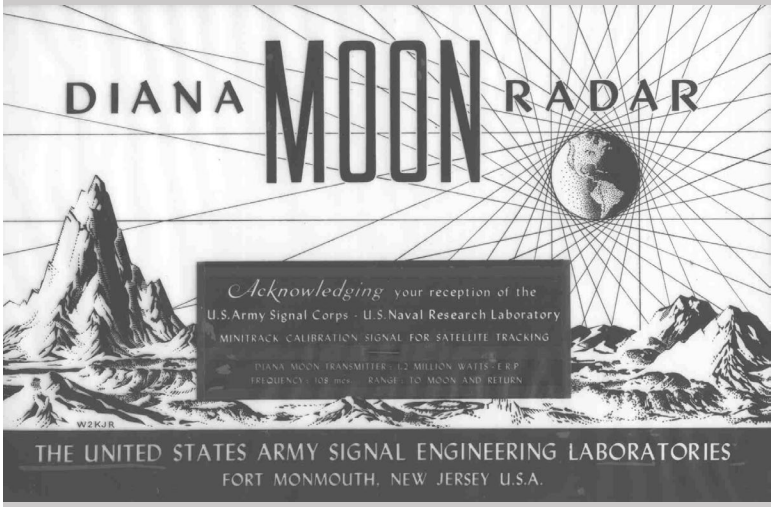
While DeWitt received the credit at the time, the individual responsible for the theoretical math and physics to make this contact happen was Dr. Walter McAfee. Herbert Kaupfman wrote in a May 1946 article, A DX Record: To the Moon and Back, that "calculations made in the laboratory by McAfee and his Mathematical Analysis Section" allowed this contact with the moon to happen." Kaupfman was one of the technicians present during the initial Project Diana transmission.

McAfee was African American and due to racial prejudice during the time, received only a passing mention at the time of the original radar "moon bounce." McAfee faced barriers and struggles as an African-American scientist in the days before racial integration in the Armed Forces. He dedicated himself not only to the mission of the Army, but also to the improvement of opportunities for everyone. He mentored many people in his departments and was an early advocate of internal training for the scientists and other civilians in the Army.

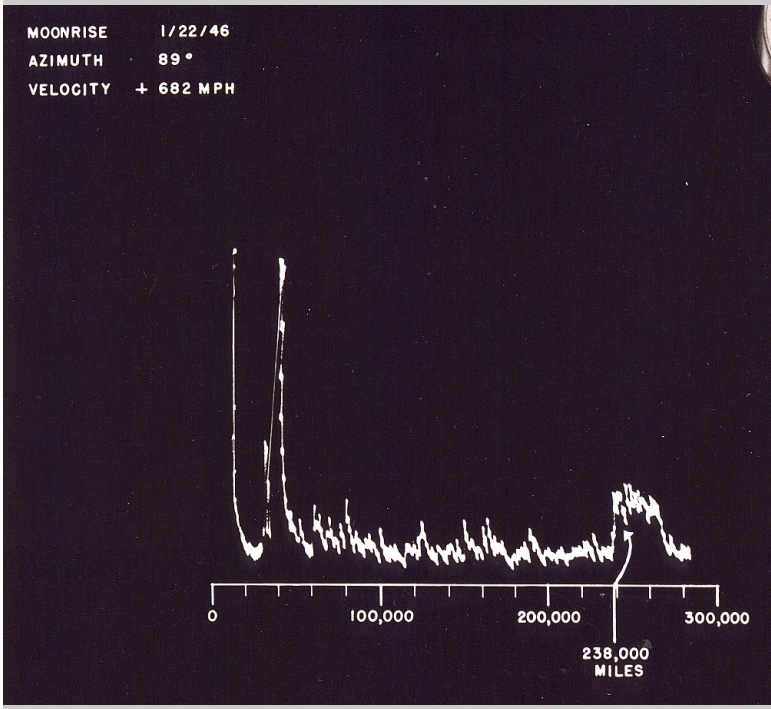
To find out more about Project Diana, as well as view dozens of scanned in images and documents, please visit the U.S. Army CECOM history blog:

http://cecomhistorian.armylive.dodlive.mil

In January 1946, the US Army Signal Corps bounced a signal off the moon with Project Diana from Camp Evans, New Jersey.



Amateur and professional astronomers and radio enthusiasts were able to receive these certificates.



A beam of high frequency energy, traveling at the speed of light (186,000 miles per second), was directed at the moon and 2.5 seconds later was recorded on the radar screen.

HAIL & *farewell*

After years of dedicated federal service, some of our beloved CECOM family members are heading into the wonderful world of retirement. Let us all wish the following employees a happy retirement!

Francesca Bilski
LRC, Aberdeen Proving Ground
3 January 2014

Thomas A. Delorge
SEC, Fort Lee
31 January 2014

Fred L. Fisher
LRC, Aberdeen Proving Ground
3 January 2014

Phyllis P. Marsh
SEC, Fort Lee
31 January 2014

Billy S. Medley
LRC, Aberdeen Proving Ground
10 January 2014

John H. Smith Jr.
SEC, Fort Lee
31 January 2014

Thrift Savings Plan catch-up contributions

Federal employees who participate in the Thrift Savings Plan and who will turn age 50 during this year are eligible to make TSP catch-up contributions. Catch up contributions are supplemental tax-deferred contributions that employees age 50 or older (or turning age 50 during the calendar year) can make to the TSP beyond the maximum amount they can contribute through regular contributions.

To be eligible to make catch up contributions, you must be:

- Age 50 or older anytime during the calendar year in which the catch-up contributions are being made (even if you become age 50 by Dec. 31, of this year);

- Currently employed and in pay status;

- Making regular contributions to a civilian or uniformed services TSP account (or both), and/or an equivalent employer plan (such as 401(k), 403(b), or 408 plan, that will equal the maximum allowed by the Internal Revenue Service; See http://www.tsp.gov/ for the current year's limit.

You are not eligible to make catch up contributions (or regular contributions) within 6 months of making a financial hardship withdrawal from the TSP, nor while in a "non-pay" status.

Catch-up contributions are separate from regular TSP contributions and require that you complete a separate enrollment each year. A chart to assist in planning contributions and information about the enrollment process are located on the Army Benefits Center website at https://www.abc.army.mil/TSP/WhatisTSPCatch-Up.htm

Additional information is available from the TSP website http://www.tsp.gov/, including a "Catch-Up Contributions" fact sheet.

ON THE HORIZON

Did you know?

Early outs of up to 12 months have been authorized for thousands of regular Army enlisted Soldiers assigned to units scheduled for deployment or deactivation. The Army plans to trim its active duty headcount from 570,000 Soldiers to 420,000 by 2019.

CHAPLAIN'S CORNER

"Arise and shine!"

CH (MAJ) Young D. Kim,
CECOM Command Chaplain

Someone said, "What the new year brings us will depend a great deal on what we bring to the new year." Prophet Isaiah talks about a new dawn rising in Isaiah 40:1-4. "Arise, shine, for your light has come, and the glory of the Lord rises upon you. See, darkness covers the earth and thick darkness is over the peoples, but the Lord rises upon you and His glory appears over you. Nations will come to your light, and kings to the brightness of your dawn. Lift up your eyes and look about you; All assemble and come to you; your sons come from afar, and your daughters are carried on the arm."

The new year is an occasion for reflection. How do we define ourselves? Do our pursuits reflect God's purposes? The Lord encourages His people to "arise and shine" not because they are inherently radiant, but because the Lord's glory rests upon them. The revelation of God's majesty and might is what differentiates God's people from the nations. They received the covenants and the law because of divine grace and mercy. They were witnesses to the mighty acts of deliverance. Otherwise, they would be covered with the same shroud of darkness and gloom that covers the earth. The plight of sin and judgment confronts all of humanity. God disperses the darkness of our ignorance and rebellion. Moreover, it is His intention to draw "nations and kings" to this light of salvation. Glory is not inherent to God's people, and it should never be hoarded.

May the glory of God rest upon you and your family. May the grace and mercy of the Lord be upon you and your family. Therefore, may you and your family have an abundant and successful year 2014 in the Lord! **Happy new year!**

CECOM
Wellness

Setting realistic goals for the new year

The new year is a great time to set new goals for a healthier life. Too often, people set unrealistic goals for themselves and give up when they have difficulty meeting unattainable standards.

The key to meeting your new year's resolutions is to set reasonable goals and to recognize the differences between long and short-term goals. Many times we set long-term goals but expect ourselves to meet them in the short-term. Setting goals that are attainable will keep you motivated to keep setting higher, and higher expectations for yourself. This new year, challenge yourself to stay dedicated to your realistic goals and once they are accomplished, set more with higher expectations. Never stop pushing yourself to achieve greatness!

Here are a few key steps: The first step is setting goals that you feel are measureable to achieve. Choose something you would like to work toward, realize, or create. The second step is to create a clear idea or picture of what these attainable goals would be. The last step is to give your goals positive energy. Keeping a positive outlook on your goals will increase your chances of success. Remove all negative feelings to assure yourself that your goals are achievable. Once you reached your goal, make a big deal out of it. You earned it!

SMART goals are:

- **Specific:** Make your goal clear. One way to do this is to ask yourself the five "W" questions. Who needs to be involved? What do I want to accomplish? Where will this take place? When will I do it? Why am I setting this goal?
- **Measurable:** Make sure you can measure your progress as you work toward your goal. You also want to know when you have reached your goal. A measurable goal will answer "How" questions: How far? How much? How many?
- **Achievable:** Make your goal realistic and attainable. Ask yourself "How": How can I (realistically) achieve this goal?
- **Relevant:** Make sure your goal is important to you. Ask yourself "Why" questions: Why this particular goal? Why is it worthwhile to me? Why is this the right time?
- **Time-bound:** Make sure you set a time limit for achieving your goal. In any case, ask yourself "when": When do I want to accomplish this goal?

VIGILANCE

A guide on how to make your voice heard

By James Lint, CECOM G2

Edward Snowden has been in the news for giving both China and Russia classified information. Most people would claim that what he did is wrong or even treasonous, but Snowden sees his actions very differently. In speaking to "The Guardian", he explained his reasons for disclosing the National Security Agency's secret eavesdropping on Americans' phone conversations: he wanted to "inform the public as to that which is done in their name and that which is done against them," in hopes they would use the information to debate the issue.

Snowden seems to have a disagreement with the current laws and his interpretation of his former employer's compliance with the law. What is not known is if he knew the correct way to have a disagreement and the legal way to try to correct the NSA's actions. There are always right and wrong ways to everything.

DoD hotline

In the Department of Defense, there is a correct way to report sensitive or classified problems. The DoD hotline provides a confidential avenue for individuals to report allegations of wrongdoing pertaining to programs, personnel, and operations that fall under the purview of the DoD, pursuant to the Inspector General Act of 1978.

Anyone, including members of the public and DoD employees (military members, civilian employees, and DoD contractor employees) may file a complaint with the DoD hotline.

Fraud, Waste and Abuse
DoD HOTLINE
1.800.424.9098 • www.dodig.mil/hotline

There are three types of complaints:

- Fraud, waste or abuse: report fraud, waste, abuse, and mismanagement regarding programs and personnel under the purview of the DoD
- Whistleblower reprisal: report adverse personnel actions taken against an individual, because that individual made or was thought to have made a protected communication.
- Classified information: report violations of wrongdoing involving classified information.

There are also separate defined processes for submitting complaints involving secret and top secret information.

ICWPA established by Congress

The Intelligence Community Whistleblower Protection Act of 1998 provides a secure means for employees to report to Congress allegations regarding classified information.

ICWPA is a statute that provides a process by which employees or contractor employees of the Defense Intelligence Agency, National Geospatial-Intelligence Agency, National Reconnaissance Office, and the National Security Agency can report matters of urgent concern to the intelligence committees of Congress.

This statute does not grant special statutory protection for intelligence community employees from reprisal for whistleblowing. All federal employees are afforded protections against reprisal for engaging in certain protected activities, via other applicable federal antidiscrimination or whistleblower protection laws.

Correct reporting helps national security

Without a doubt, registering complaints to fix problems from federal fraud, waste, and abuse is important. Reporting violations of wrong doing involving classified information is critical to the protection of sensitive operations. However, it is important to understand the options for reporting and the correct ways to do it that will not adversely impact national security, your career, or your life.

The number to call to report issues is the DoD hotline, 1-800-424-9098.The staff there can handle questions or concerns involving this process. Federal special security offices and intelligence and security offices are prepared to help individuals determine the proper process.

SAFETY FIRST

The safety shoe tie-in

By Bob McNabb, CECOM Safety

You probably do not think about your feet very much, unless they are hurting. As long as they are free of injury, you just take it for granted your feet will get you where you want to go. What you should not take for granted, is safety footwear. The right protective boots or shoes can save you from a painful and disabling injury.

Here are some of the common kinds of foot injuries at work:

- Impact injuries from a falling object. Even a lightweight object can cause a painful injury to a foot.
- Run over by moving equipment such as a handcart or pallet jack.
- Stepping on a sharp object. Nails sticking out of boards and broken glass are common examples.
- Lacerations by a tool such as a power saw.

Follow these suggestions for avoiding foot injury:

- Wear the correct footwear. Boots with toecaps and puncture proof soles are required in many industrial work settings. Other jobs may call for non-slip soles, chemical-resistant materials, insulation and other protective qualities. Talk to your supervisor about what kind you should be wearing, and make sure the shoes meet the required national safety standards.
- Practice good jobsite housekeeping. Keep the area free of clutter that can cause falls and foot injuries. Store tools and materials safely so they will not fall off work surfaces or shelves. Clean up any spills promptly.
- Pay attention to what you are doing. Accidents causing foot injuries tend to happen when the worker is distracted or in a hurry.
- Handle chemicals with care to avoid accidental contact.
- Keep your feet, socks, and safety shoes clean and dry.
- Take care of your feet off the job too. Use safety footwear when working in the yard or shop.

Things to know about safety footwear:

Proper protective footwear is an essential tool in preventing serious foot injuries.

Special footwear types include:

- Puncture resistant soles and mid-foot protection are needed for work in construction sites and warehouses.
- Shoes made of chemical-resistant material such as rubber or synthetics provide protection from chemical hazards. The type of chemical involved dictates what material the shoes should be.
- Steel-toed shoes provide extra protection to your toes from falling or rolling objects.
- Traction footwear is used to prevent slips. Chains, studs, bolts, spike or gritty soles are incorporated into these types of safety boots or shoes.

Keeping your feet free from injuries requires paying attention to your work, following safe work practices, and keeping your work area clean and orderly.

AROUND *the* COMMAND

SEC HOLIDAY PARTY

Vera Waathan (center) leads others through the "Electric Slide" at SEC-Lee's holiday party. (Photo by SEC-Lee staff)

Jeff Garcia opens his "Secret Santa" gift during festivities at SEC Fort Sill's holiday party. (Photo by SEC Fort Sill staff)

SEC APG personnel showcase their seasonal apparel at their holiday party. (Photo by Richard Shaw, SEC APG)

SEC-Lee personnel participate in the "make a snowman" challenge. (Photo by SEC-Lee staff)

HEADQUARTERS STAFF HOLIDAY PARTY

Directors and deputies participated in a "dress a snowman" competition during the CECOM headquarters holiday party. (L-R back row) James Lint, G2; Karen Quinn-Doggett (hidden from view), Corporate Communications; Col. David, Dalition Staff Judge Advocate; Charles "Skip" Glaser,G1; Patti O'Connor,G6; Dominic D'Orazio, Internal Review; Eugene Coddington,G4; (L-R front row) Craig Russomano,G8; Col. Charles Gibson,Chief of Staff, and Sue Nappi,G3/5. (Photo by Marissa Anderson, CECOM Public Affairs)

UNIT MINISTRY TEAM VISIT TO TOBYHANNA ARMY DEPOT

CECOM leadership portray their support of Maj. Gen. (P) Ferrell during his farewell.

(L-R back row:) Col. Gerhard Schroter, TYAD and Col. Charles Gibson, CoS.

(L-R front row:) Col. Anthony Wizner, CTSF; Maj. Gen. (P) Ferrell, and Col. Patrick Kerr, ISEC.

Chaplain Kim with Army Community Service staff. (L-R) Patrick Lawrence,- SARC Coordinator; Lt. Col. Alyson Fellner, chief, Social Work Service; Joanne Storee, Counselor; Chaplain (Maj.) Young Kim.

Caption: (L-R) Chaplain (Maj.) Kim and Gary Scott, chief, Counterfire Components Branch.

TEAM APG DR. MARTIN LUTHER KING JR. CELEBRATION

Photos by Marissa Anderson, CECOM Public Affairs

Team APG honored Dr. Martin Luther King Jr., at an event at the installation. The event was attended by the APG workforce and local area school children

(R-L) Acting CECOM Director, Gary Martin, presents Rev. Dr. John G. Moore Sr., with a framed token of appreciation.

Moore serves as guest speaker and recited excerpts from King's speeches and presented a photo montage highlighting King's life.

CECOM Chief of Staff, Col. Charles Gibson, provides welcoming remarks.

CHECK IT OUT

By Renee Ullman, Corporate Communications

The check-in/check-out feature of SharePoint is a useful tool to use when collaborating with others on a file located in a library. This function prevents conflicts from occurring when multiple people might want to edit the same piece of content. It prevents others from making changes to a file while you are working on it.

The check-in/check-out function basically works this way (using a Word document as an example):

When you check out a document, you block others from making revisions to it during the time it's checked out to you.

The document is still visible in SharePoint and available to those with access as a read only file, but they cannot make changes until you check-in the file. A checked-out file is identified by a green downward pointing arrow overlaying the file icon.

You may save the document in your SharePoint drafts folder and work on it off-line, or you can work on it in SharePoint.

If you want others to see your updates while continuing to work on the document, you have the ability to check-in the current version, but still keep the document checked-out for your continued editing.

If you decide not to make or keep your changes, you can discard your checkout.

One or multiple documents can be checked out at one time.

You must have "contribute rights" to the document to be able to use the check-in/check-out function. Your SharePoint administrator can assist with permission level questions and actions needed to ensure that the check-in/check-out functionality is available.

Step by step instructions for using this feature can be found here:

- Microsoft Help: http://office.microsoft.com/en-us/sharepoint-server-help/check-out-check-in-or-discard-changes-to-files-in-a-site-library-HA101849698.aspx
- MilU: https://www.milsuite.mil/learn/capability/sharepoint/

Send questions and comments to Renee A. Ullman, Corporate Communications @ renee.a.ullman.civ@mail.mil.

CECOM DOTS and DASHES

- .... . + -. . - .-- --- .-. -.- + ... + - .... . + .- .-. -- -.-- ... + + -- --- -.. . .-. -. .. --.. .- - .. --- -. + .--. .-. .. --- .-. .. - -.--

The answer to "What's in the box?" is:

Morse code for - The Network is the Army's #1 modernization priority.

DISCLAIMER: Dots and Dashes is an authorized CECOM publication for the CECOM workforce. This publication focuses on awards, achievements, people and events internal to CECOM as well as topical and policy updates from staff. Contents of Dots and Dashes are not necessarily the official views of, or endorsed by, the U.S. Government, the Department of the Army, or CECOM. The content of the publication is the responsibility of the U.S. Army CECOM Chief of Public Affairs, Robert DiMichele. The newsletter is published monthly and distributed electronically via email. It is posted to the CECOM SharePoint site at: **https://sp4.kc.army.mil/cecom/home**

Send questions, comments to:
marissa.l.anderson.civ@mail.mil, 443-861-6714 (DSN 848-6714) or
renee.a.ullman.civ@mail.mil, 443-861-6622 (DSN 848-6622)