



# CECOM DOTS and DASHES

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## Communications-Electronics Command focuses on Anti-Terrorism awareness

By Victor M. Lowe, Protection Officer

Terrorism remains an enduring, persistent, worldwide threat to our Army and our nation. Our Army must be capable of identifying, deterring, preventing and defending against the full range of terrorist tactics, techniques and procedures. Although larger, more-organized groups still continue to plot terrorist attacks, the trend has shifted more towards attacks from small groups and individuals with various motives who are radicalized to take independent action.

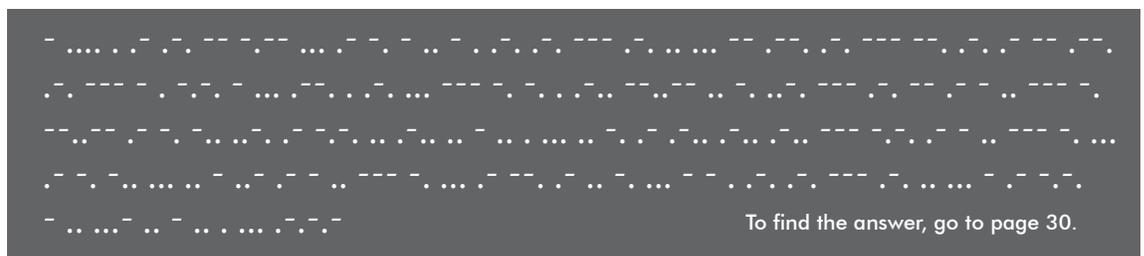
Anti-terrorism (AT) awareness seeks to focus

efforts and instill Army-wide heightened awareness and vigilance to prevent and protect the Army community, the U.S. Army Communications-Electronics Command (CECOM), and our critical resources from acts of terrorism. This year, the Army has designated the month of August as AT Awareness Month. The theme this year is organization and individual protective measures.

In CECOM, AT falls within the auspices of the G-3/5 Directorate, specifically the Protection Operations Branch. Personnel in the branch are absolutely wedded to the idea that the protection of our resources, mission, and personnel is a year-round task and the number one priority for the Protection team. The Department of Defense (DoD) has recently done a paradigm shift on methods used to protect its personnel and resources, creating the Army Protection Program. DoD has identified 12 "Non-Warfighting" functions as part of the protection program: anti-terrorism, physical security, computer network defense, continuity of operations,

.....> cover story continued on page 2

Can you decode what's in this box?



To find the answer, go to page 30.



critical infrastructure risk management, emergency management, fire and emergency services, health protection, high-risk personnel, cyber security, law enforcement and operations security. The enabling functions for those programs are intelligence, counterintelligence and security engineering. Note that anti-terrorism is but one of those programs. These programs or functions are not new, but it is the first time that they have all been used collectively in a closely-integrated framework.

Both DoD and Headquarters, Department of the Army aptly recognize that there are incidents which can occur other than a terrorist incident that could injure personnel, damage or destroy mission critical resources, and hamper or halt the overall mission of CECOM. Examples of those type incidents are a destructive weather event, a cyber attack which knocks out our computer systems, a pandemic disease which spreads and depletes the workforce, a serious work-place violence (active shooter) incident, or some other natural or man-made incident that impacts our organization and its ability to carry out its mission.

Though the job of G-3/5 Protection personnel is to coordinate, integrate and synchronize each of those 12 protection functions, a holistic approach has to be taken so that a proper perspective is made not only to the postulated threat that may exist, but also to the specific threat. Risks have to be taken into account so that the safety and security of the workforce is not treated lightly, but not at the expense of being risk averse. Subsequently, risk management is crucial, and is an important step for leaders. By knowing what the hazards are, leaders can manage and mitigate those deemed most hazardous to the workforce and resources. Threats or hazards which pose less potential impact can be accepted or given less priority of concern.

The protection focus and tasks at a garrison (installation level) is slightly different from the focus of CECOM's personnel. The garrison is concerned with the day-to-day safety and security of the installation and everything within it. CECOM is chiefly focused on the safety and security of its workforce, its world-wide mission and the support that it must be able to provide to the warfighters.



Risk management has become a key consideration for CECOM. We will never be able to protect all resources from every type of hazard; there are simply not enough funds or personnel available to accomplish all of this. However, as we work to understand the potential risk and how it may threaten our personnel or our overall mission, we can prioritize what we believe is important and then apply available resources and the additional measures needed to mitigate or lessen the risk or threat.

### **Anti-terrorism Awareness for the Workforce and Senior Leaders**

DoD intends for all service members, civilian employees and their family members to be kept well-informed on measures needed to protect themselves and others. This continuing education includes AT Level I through Level IV training. AT Level I is designed for all DoD personnel and mandatory completion is required on an annual basis. AT Level II training is intended solely for the certification of organizational security personnel within the command who manage the AT and Force Protection Programs. AT Level III is a pre-command course designed for incoming commanders or directors, usually at battalion or brigade levels. AT Level IV is an executive seminar which is designed for military and civilian senior leaders who are in grades of colonel/ GS-15 and above. The training is intended to be comprehensive and to ensure constant awareness at every level, from new recruits or employees who are just entering the force, to those who are in senior positions.

## Individual Protective Measures

Terrorism is an indiscriminate crime that strikes in varying forms of threats and violence. Terrorists generate fear through intimidation, coercion, and acts of violence such as hijackings, bombings, or kidnappings, which usually occur more frequently in certain parts of the world, making travelers to foreign countries more likely potential victims. As past events have shown, terrorists have reached new levels of organization, sophistication, and violence -- their tactics and techniques are always changing and will continue to be a challenge to neutralize.

Accordingly, everyone must remain diligent in applying the proper protective measures. The recommended protective measures will not ensure immunity from terrorism or acts of violence, but by practicing these techniques and proven security habits, the possibility of becoming a target can be reduced. Defensive awareness and personal security regarding terrorism are responsibilities of everyone assigned to DoD. Every member of the military community is a highly-valuable yet most vulnerable resource so awareness is necessary to reduce the threat of terrorism.

## Active Shooter

An active shooter is defined by the U.S. Department of Homeland Security as "an individual actively engaged in killing or attempting to kill people in a confined space or populated area; in most cases, active shooters use firearm[s] and there is no pattern or method to their selection of victims." Within the last five years, there have been numerous prominent, high-casualty producing active shooter incidents. Most of these cases have occurred in locations where the shooter has been undeterred and unobstructed from carrying out their attack. The incident locations have often been described as "soft targets" with limited active security measures or armed personnel to provide protection for members of the public.

## The Fundamentals of Individual Protection

There are several fundamentals of individual protection. First, maintain situational awareness of your surroundings at all times. Pay particular attention to activity happening around you in order to identify anything unusual. If necessary, leave the area and report suspicious activity or behavior to local authorities. Second, protect

your personal information at all times. Do not reveal details of your personal life such as where you live and work, family members, your association with the U.S. military, email address or phone numbers to anyone you don't know and trust. Do not discuss personal information or military missions in public, on the telephone, or on the internet.

In this digital age, take extra precaution with social media networks such as Facebook, Twitter, and blogs and avoid posting or providing personal information on those sites. Criminals and terrorists are known to use these forums for open source information gathering and for recruitment and these media do not provide "secure" communications.

Also, while at work know the emergency evacuation procedures for the facility in which you work. Know the bomb threat procedures and how to report threats to local law enforcement or security authorities. Understand what to do in an "active shooter" threat scenario. The protection of our facilities and our people requires vigilance on the part of everyone.

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*The bottom-line of force protection is simple... "See Something, Say Something!"*

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## Important Anti-terrorism links:

<http://www.apg.army.mil/InstallationSupport/iWatch>

<https://jkodirect.jten.mil> <<https://jkodirect.jten.mil>>

[HTTPS://WEST.ESPS.DISA.MIL/ARMY/SITES/APP/OPMG/OPS/ANTITERROR/ATEP/DEFAULT.ASPX](https://WEST.ESPS.DISA.MIL/ARMY/SITES/APP/OPMG/OPS/ANTITERROR/ATEP/DEFAULT.ASPX)



## Women's Equality Day

On Women's Equality Day we pause and celebrate the passage of the 19th Amendment to the U.S. Constitution that gave women the right to vote. This was an important step in

our nation's history to live up to our founding values and principles of liberty and justice for all. In 1920, women were finally given their inherent right to partake in the fruits of democracy and have their voice heard on issues, elections and any other activity that would affect the future of the generations that would follow.

As we've seen throughout our storied past up to the present day, women have always stepped up to our nation's call with steadfast support and sacrifice at home and abroad. They have proven time and time again that duty, honor and selfless service know no gender. Our Army has also rightly evolved by recognizing the tremendous leadership potential of women by opening several positions previously only filled by men. Our future forces will benefit greatly by their inclusion to every part of the Army team.

It goes without saying that America is what it is because of the many contributions, innovations and tireless support of women. As we reflect on this day, we must not forget the many women who are sacrificing their lives alongside their brothers-in-arms in hostile environments. It is their courage, both past and present that give us continued hope for a peaceful future.

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## Antiterrorism Awareness Month

In August, the Army observes Antiterrorism Awareness Month in an effort to heighten our vigilance and further our combined ability to protect our most precious resource – our people.

If you turn on the news it is obvious to see that terrorists can attack anywhere, anytime. There is no doubt that the threat is real. While our leadership is doing everything it can, it is also important that every community member become knowledgeable about measures to help prevent terrorist acts. As a team, we must become active participants in identifying and reporting information to law enforcement to enhance and extend the Army protection posture.

I encourage every unit in our footprint to provide the best antiterrorism training and education possible. This topic should also be an integral part of leader development. I personally believe that community awareness and involvement is a leading factor to achieve real results in protecting our infrastructures, our workforce, and most importantly, our families. Our national defense motto of, "If you see something, say something," is a constant reminder that we must always look out for one another. Remember, a vulnerability accepted by one, is a vulnerability accepted by all. I look forward to a continued dialogue and how we can improve our efforts to keep our team safe and secure.

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### Army Strong!

**Bruce T. Crawford**  
Major General, USA  
Commanding



**Command Sgt. Maj. Kennis J. Dent**

Terrorism continually threatens our nation's security, economy and critical infrastructure. Terrorist attacks seemingly occur without warning, in varying degrees of threats and violence. Incidents happen anytime, anywhere—even on American soil. These range from chemical, biological, radiological, nuclear and explosive devices to cyber strikes. The terrorists themselves can be either foreign or domestic adversaries. As evidenced through recent tragic events, terrorists continually evolve their operations and strategies in order to achieve their goals of fear and intimidation on a massive scale. The U.S. Army community and all associated personnel are considered potential targets and remain vulnerable to attacks.

The Department of the Army has designated the month of August as Anti-Terrorism (AT) Awareness Month. The objective of AT is to instill heightened understanding and vigilance Army-wide against potential acts of terrorism.

Here at the U.S. Army Communications-Electronics Command (CECOM), AT planning and coordination is located under the Protection Operations Branch within the G3/5 directorate. The number one priority for the Protection team is the "world-wide" protection of CECOM personnel, followed by the protection of our command resources and the

# COMMAND SERGEANT MAJOR'S PERSPECTIVE

enablers that help to ensure that we can carry out our mission. CECOM is following the Army lead and has now integrated antiterrorism with other non-warfighting functions which make up the protection program.

Each and every Army team member—from Soldiers, to civilians, to contractors to family members—must take responsibility and assume an active role in the fight against terrorism. According to an Al Qaeda training manual, 80 percent of intelligence can be collected from legal sources, including websites, blogs, newspapers, and online forums. Part of maintaining our readiness and resiliency as members of the Army team, is acquiring the AT knowledge base and understanding of how our actions can impact operational security.

- Be proactive and get informed! Aside from our yearly AT mandatory training, there are numerous educational resources available online, including the Army One Source website at: <http://www.myarmyonesource.com/familyprogramsandservices/iwatchprogram/default.aspx>
- Utilize the Public Release Approval System (PRAS) for the release of information to the public domain. While we have a public obligation to be transparent about our mission, we also have a requirement to provide the right level of operational security. So, before you present that technical briefing to a conference, send it thru the web-based PRAS review process: <https://medinah.sed.apg.army.mil/PRAS/default.asp>
- Maintain effective situational awareness and be highly cognizant of your surroundings, regardless of being inside or outside the workplace. Recognize

the indicators of potential terrorist activities and report suspicious behavior to military police, local law enforcement, or your organization's force protection specialists.

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*We must posture ourselves to remain vigilant and defensive of our people, information, and critical resources lest they become mechanisms exploited in the execution of terrorist activities.*  
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You, a valued member of our Army team, are our most precious resource, our greatest weapon, and our first line of defense against terrorism. Your diligence and awareness can mean the difference between life and death. Remember, if you see something, say something.

## **Ever vigilant and Army Strong!**

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**For more information on how to combat terrorism, please visit the following websites:**

Department of Homeland Security Antiterrorism website  
<http://www.dhs.gov/preventing-terrorism>

National Counterterrorism Center  
<http://www.nctc.gov/overview.html>

Federal Bureau of Investigation  
<http://www.fbi.gov/about-us/investigate/terrorism>

# THE DECISIVE EDGE

## CECOM's ESSC links technical experts, supported units

by Summer Barkley, 3-401st Army Field Support Battalion



**Spc. Steven R. Murphy, 2nd Battalion, 44th Air Defense Artillery Regiment, (far left) who is working with Robert Stephens, ESSC generator maintenance shop lead, (far right) to improve his generator maintenance and repair skills look at a generator that is in the generator maintenance shop for work. Looking on are Peter McGinnis, environmental control unit shop lead and Spc. Mark A. Ocampo also from the 2-44 ADA. Ocampo is working with McGinnis to add a new skill set to his knowledge base. (Photo by Summer Barkley)**

BAGRAM AIRFIELD, Afghanistan -- Optics, sensors, scanners, helium trailers, generators and radios are very different types of equipment fielded to deployed troops that are supported by Communications-Electronics Command (CECOM) personnel at the Electronic Sustainment Support Center/Regional Support Center (ESSC/RSC), located in a corner of the 3-401st Army Field Support Battalion footprint, where units can access C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance) maintenance, training and troubleshooting support.

The ESSC and RSC house technicians who provide maintenance support in communications, electronics, networking, fiber optics, software, HVAC/ECU, power generation and program manager support for a veritable laundry list of highly specialized technical equipment used by U.S. and coalition forces. Some of the equipment is non-standard and commercial off-the-shelf equipment and some is U.S. Army system or

program of record equipment that requires specialized tools or skills to maintain. In the case of Army equipment, it is either more cost or time effective to have CECOM technicians complete the repairs.

"It's an umbrella organization," said Robert L. Martin, ESSC manager. "The ESSC houses support capabilities and provides facilities and infrastructure to support various program manager programs."

Martin said he had a sign placed on the front of the building listing 15 capabilities housed in the regional support center so units can become familiar with the one-stop support provided there. The list which includes radar, radios, customs and biometrics is not all-inclusive.

Martin listed at least 20 separate supported systems but noted that each system can have a number of variants and workers must be trained

on each variant. Levels of support available vary but range from full maintenance and fly-away support to direct exchange to packing, wrapping and shipping. Many technicians are located at forward-deployed locations or are available to fly out on short notice to supply parts and expertise.

Support for Program Manager programs and equipment varies and is determined by the program manager. Support for Program Manager Ground Sensors vehicle optics sensor systems, for example, include new equipment and refresher training for operators and maintainers; de-installing old or faulty equipment and installing new equipment; full maintenance; fly-away support, and technicians located at 10 locations in theater. Martin said his technicians will also pack, wrap and ship between operating, storage and maintenance locations. Support for Persistent Threat Detection Systems, the un-blinking eye in the sky, includes pack, wrap and ship only.

Martin said the contractors working in the RSC are 'multi-skilled' and that helps reduce personnel numbers and costs. April Picart, an electronics technician who works on Harris and Thales radios, formerly supported only one system, but now supports multiple systems. She said her work is important because vehicles must have radio

capability to be considered mission ready.

While training is not a primary mission for the ESSC/RSC, contractors in the generator maintenance and environmental control unit shops have Soldiers working with them to increase their skills and knowledge base.

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*"I've learned a lot in the last four to six months," said Spc. Steven R. Murphy, 2nd Battalion, 44th Air Defense Artillery Regiment, and a native of Knoxville, Tenn. "I'm learning valuable tools to take back to Fort Campbell."*

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"The more they can learn the better," said Robert Stephens, ESSC generator maintenance shop lead.

Spc. Mark A. Ocampo, a Pohnpei, Micronesia native, also with the 2-44th ADA, is working with Peter 'Pete' McGinnis, ECU lead. He said he's a wheel vehicle mechanic, but working with McGinnis is giving him skills in other areas.

"I've learned a lot and can now troubleshoot generators," he said. "I'll be good in three fields."

Andrew L. Thompson, CECOM senior command representative to the 401st Army Field Support Brigade, observed that everyone who works in the ESSC/RSC is very committed to supporting the Warfighter.

"Treat every system and piece of equipment as if your child has to use it" he said. "Once a Soldier, Sailor, Airmen, and Marine go outside the perimeter they don't get a chance to re-do their situation, the services and systems we provide has to be 100 percent...all the time...everytime."



**A sign on the Communications-Electronics Command Electronic Sustainment Support Center/Regional Support Center (ESSC/RSC) at Bagram lets customers know some of the skill sets and services resident in the facility. The ESSC/RSC provides maintenance support in communications, electronics, networking, fiber optics, software, HVAC/ECU, power generation and program manager support for a number of highly specialized technical equipment used by U.S. and coalition forces. (Photo by Summer Barkley)**

# Strategy Team holds virtual event briefing

by Andrew Phelps, Software Engineering Center

The Office of the Army Chief Information Officer (CIO)/G-6, together with the Software Engineering Center (SEC) Army Net-Centric Data Strategy (ANCDS) Center of Excellence hosted a virtual event briefing on the Common Operating Environment (COE) and Army Data Management Program (ADMP). Held on June 25, 2014, the event included an overview of the COE and Army Information Architecture (AIA). Speakers also provided a discussion on the relationships between COE, AIA and ADMP. Eighty attendees from across the Army, Air Force, Marine Corps, Navy and Department of Defense (DoD) participated in the event.

## Common Operating Environment

CIO/G-6 signed the COE Architecture in October 2010. Since then, the Assistant Secretary of the Army for Acquisition, Logistics and Technology (ASA (ALT)), has taken the lead on its implementation. ASA (ALT) has assigned Program Executive Offices (PEO) to address the implementation of individual COE computing environments (CE), as each requires different expertise. Further, CIO/G-6 and ASA (ALT) are working together to develop an IT Standards process that enables the acquisition community to operate with a better defined and more defined set of standards.

The COE is an approved set of computing technologies and standards that will enable secure and interoperable applications to be developed rapidly and executed across a variety of CEs. COE CEs include: Mobile/Handheld CE, Mounted CE, Command Post CE, Data Center/Cloud/Generating Force CE, Sensor CE and Real Time/Safety Critical/Embedded CE. The COE enables agility, reduced life cycle cost of development and sustainment, a secure foundation, network simplicity and the promotion of open architecture that is standards-based and leverages industry best practices. The COE provides a common technology platform to be used in solutions, and serves as a technology basis assumed by both AIA and ADMP.

## Army Information Architecture

CIO/G-6 has established guidance, governance, policies, and best practices for achieving Army Data Strategy goals. As a cornerstone of the Army Data Strategy, the AIA is a reference architecture for enterprise system interoperability that complements the COE Architecture. It is rules-based, and extends the COE by providing guidance specific to information sharing and data exchange. The AIA provides project managers a roadmap to achieve

DoD net-centric goals and has several long term benefits, including simplified and more effective system interoperability.

## Army Data Management Program

The Army Data Management Program integrates Army Data Management practices into a unified, consistent and comprehensive body of data management guidance. It establishes a Data Management governance structure that enables repeatable and consistent execution of Data Management practices across the Army, and integrates AIA guidance within a comprehensive, industry-based view of enterprise data management functions (Data Management Association [DAMA] Knowledge Wheel in the Data Management Body of Knowledge [DMBOK]). The governance structure enables bodies like the Army Data Board to identify and correct redundancies, conflicts and gaps in Army Data Management practices.

## COE and ADMP Virtual Event

The event detailed the relationship among COE, AIA and ADMP described above. The virtual forum allowed attendees to interact with the speakers to ask questions and get immediate answers. Because there were many questions, speakers provided contact information to enable feedback and further questions from attendees after the event. This event is part of a series of Army Data Strategy virtual events hosted by the HQDA CIO/G-6 and the ANCDS Center of Excellence. The forum has become a preferred method of information sharing by Department of the Army (DA) G-6 in lieu of more traditional and costly conference and delivery tactics.

The SEC ANCDS Center of Excellence hosted several other events since May 2013 on the following topics: AIA Applications and Benefits, AIA Management Perspective, AIA Compliance Assessment, Army Data Framework, National Information Exchange Model (NIEM) MilOps Domain, Information Exchange Specifications (IES) and ADMP and Authoritative Data Sources (ADS).

The ANCDS Center of Excellence team is dedicated to supporting the Army during the implementation of AIA and ADMP. The next event will occur in September 2014 and will cover Country Code (GNEC) Standards and Registries. If you would like more information, please contact Andrew Phelps at [andrew.k.phelps.civ@mail.mil](mailto:andrew.k.phelps.civ@mail.mil) or 443-861-8487; or Peter Cloutier at [peter.j.cloutier.civ@mail.mil](mailto:peter.j.cloutier.civ@mail.mil) or 703-704-2979.

# LOG-IT LAR helps Soldiers keep computers talking

by Summer Barkley, 3-401st Army Field Support Battalion



**Michael A. Madden, U.S. Army Communications-Electronics Command logistics information technology logistics assistance representative, talks with Soldiers from the 514th Support Maintenance Company, 10th Sustainment Brigade, while Spc. Sean M. Koski, 419th CSSB sustainment automation support management officer, works on a computer used to generate 514th unit reports on equipment status. (Photo by Summer Barkley.)**

BAGRAM AIRFIELD, Afghanistan--Every day, in locations around the world, U.S. Army Communications-Electronics Command (CECOM) logistics assistance representatives and senior master technicians work toward one goal -- to improve Soldier skills and knowledge on communications and electronics equipment that is vital to mission accomplishment.

CECOM's mission is to develop, provide, integrate and sustain the logistics and readiness of C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance) systems and mission command capabilities for joint, interagency and multinational forces worldwide. To execute the mission, CECOM provides software and hardware engineers, logisticians and maintenance personnel to the field supporting units. The 'Face to the Field' includes Logistics Assistance Representatives (LAR), Field Service Representatives (FSR) and Field

Service Engineers (FSE) under the management of CECOM's Senior Command Representatives.

CECOM LARs supporting Operation Enduring Freedom are usually assigned to a logistics support element nested in one of the battalions of the 401st Army Field Support Brigade. The LARs are a critical link between the deployed Soldier and the solutions to battlefield problems that could delay or stop mission accomplishment. The CECOM LARs are subject matter experts who train and mentor Soldiers to increase their knowledge and ability to work on and with C4ISR systems.

One of the CECOM LAR skill sets is LOG-IT, short for Logistics Information Technology, and the men and women who are LOG-IT LARs are out working with supported units to train, advise and assist Soldiers in keeping their black boxes (computers) talking.

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**Michael A. Madden, U.S. Army Communications-Electronics Command logistics information technology logistics assistance representative, provides 'over-the-shoulder' training to Spc. Sean M. Koski, 419th CSSB sustainment automation support management officer, who is working with Soldiers from 514th Support Maintenance Company, 10th Sustainment Brigade. (Photo by Summer Barkley.)**

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Michael A. Madden, LOG-IT LAR, recently worked with a Soldier from the 419th Combat Sustainment Support Battalion who was charged with ensuring approximately 35 companies were able to update data on equipment availability and readiness for use in planning missions.

"He [Madden] taught me just about everything I know so far," said Spc. Sean M. Koski, 419th CSSB sustainment automation support management officer.

Koski said the knowledge he's gained from Madden enables him to keep the computer systems for his supported companies functional for the unit.

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*"Anytime we have any issues, he [Madden] is here to give us the big picture," said 1st Lt. Sylvia L. McDonald, 514th Support Maintenance Company, 10th Sustainment Brigade maintenance control officer. "Our brigade SASMO [sustainment automation support management officer] referred us to Mike."*

"We rely on our SAMS boxes for daily reports," said Sgt. 1st Class Jamie Cox, 514th SMC maintenance control sergeant.

Madden said his job is to train, advise and assist Soldiers on how things are supposed to work.

"I provide information and over-the-shoulder training and mentoring," Madden said.

He said he acts as an 'honest broker' and focuses solely on training Soldiers. He explained that he does not work for the Soldier's unit or command and also has no affiliation with the product. Madden also said working so closely with Soldiers in a deployed environment enables him and other LARs take a lot of information back to the program managers who field equipment. He believes LAR feedback can help identify potential problems, trends and solutions.

Madden was nearing the end of his seventh deployment as a civilian and scheduled to return to his home station at Fort Hood, Texas where he is a LOG-IT LAR in the 407th Army Field Support Brigade's Logistics Support Element.

# Tobyhanna proves radar component for Marine Corps

by Anthony Ricchiuzzi, Tobyhanna Army Depot

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Technicians from Tobyhanna Army Depot, Pa., have successfully completed operational testing for the Defense Department AIMS platform certification on the AN/TPS-63B Radar System. AIMS stands for Air Traffic Control Radar Beacon System/Identification Friend or Foe/Mark XII-XIIA System.

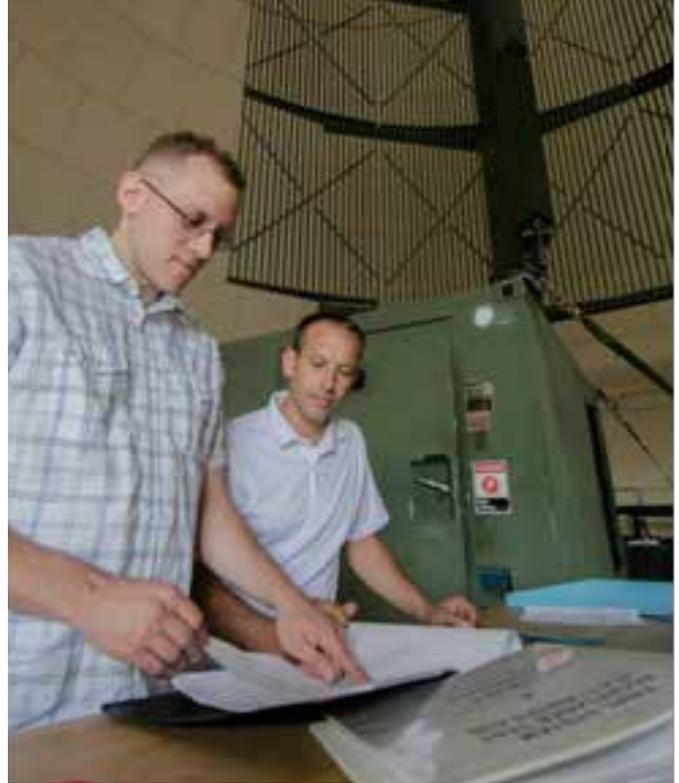
This testing involved the verification of interoperability between the AN/UPX-37 interrogator system, and the radar. In addition, the testing will also validate an engineering change proposal developed by Tobyhanna to increase reliability and decrease obsolescence.

The TPS-63B radars are used by the Marines for air surveillance. Tobyhanna personnel have repaired and tested these since receiving the workload in 2011.

“This is a special, one time requirement directed by the Marine Corps, Program Office” said Greg Lee, principal field service engineer. “We’re certifying that the radar system is compatible with the UPX-37.”

Lee works in the Surveillance Systems Division, Intelligence Surveillance and Reconnaissance Directorate.

“The Marines chose Tobyhanna for this based on our extensive radar expertise, state of the art



**AN/TPS-63 radar technicians Greg Lee, left, and Shawn Kuntz review final preparations for the AIMS (Air Traffic Control Radar Beacon System, Identify Friend or Foe, Mark XII/XIIA System) testing for the TPS-63 radar. The TPS-63 is a Marine Corps Air Surveillance radar. (Photo by Steve Grzedzinski, Tobyhanna Army Depot)**

facilities and logistics support capabilities,” said John Borosky, chief of the Tactical Air Defense Systems Branch. “The successful completion of this test event will provide certification of the Identify Friend or Foe (IFF) subsystem of the interrogator for use with the AN/TPS-63 in accordance with AIMS Standards.”

“Tobyhanna showed a strong willingness to support the effort,” said Kenneth Van Zandt, Team Lead, Long Range Radar, Marine Corps System Command. “Equally important, we had a high confidence that the radar and IFF Suite would operate reliably and correctly. And, if it suffered a failure, Tobyhanna personnel could execute the repair quickly (technically proficient). In short, we assessed Tobyhanna to be a very low risk - the equipment and personnel would be prepared to execute the test plan.”

Tobyhanna conducted the test in conjunction with the Marine Corps Systems Command, General Dynamics Information Technology and the AIMS Program Office.

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Photo by Steve Grzedzinski, Tobyhanna Army Depot



Photo by Steve Grzedzinski, Tobyhanna Army Depot

“The Marine Corps contracted two Learjets through Flights International, and coordinated through the FAA New York Center and Cleveland Center for flight clearance.” said Shawn Kuntz, electronic integrated systems mechanic. “The jets flew up from Newport News (Va.) and performed various flight patterns at numerous ranges and altitudes from Tobyhanna. The tests were performed on weekends from midnight to 8 a.m. to minimize impact on local and regional air traffic. Tobyhanna is actually a busy air traffic corridor.”

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*“I believe the greatest challenge was working through the scheduling because of the multiple agencies involved,” Van Zandt said.*

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He explained that the radar is normally configured as a test bed within the service bay and it was moved and fully assembled to support this test.

“One of our goals was not to disrupt Tobyhanna’s normal operations,” he said. “It was difficult to make the call on when to move it because of all the churn over dates and varying test requirements. Tobyhanna leadership has shown exceptional flexibility in this regard.”

The aircraft contained specialized sensors and data recording equipment for collecting the necessary data to verify the IFF (AN/UPX-37) performance as part of the TPS-63B radar.

Once the testing and flight data is verified with the AIMS program office, the TPS-63B radar will have a valid platform certification for use with the UPX-37 interrogator.

“The AIMS Platform Certification test is very important to the Corps,” Van Zandt said. “The TPS-63 program must pass the air test phase of AIMS Program Office’s assessment to maintain its ability to operate. As I mentioned, Tobyhanna was chosen because we believed it offered the best opportunity for success; that is a reflection of our confidence in Tobyhanna’s abilities.”

# Tobyhanna SINCGARS team helps Reservists fine tune skills

by Justin Eimers, Tobyhanna Army Depot

Eight U.S. Army reservists spent two weeks at Tobyhanna Army Depot (TYAD), Pa., working hands-on with depot employees to conduct field and sustainment maintenance operations training.

Nicholas Lipcavage, electronics mechanic in the Communications Systems Directorate's SINCGARS (Single Channel Ground and Airborne Radio System) Branch, said the Soldiers honed their skills in radio testing, troubleshooting and repair. "With assistance from depot personnel, these Soldiers received valuable training that would otherwise be inaccessible to the unit," he said. They are members of the Communication and Electronics Repair Section of the 322nd Support Maintenance Company (SMC), Arden Hills, Minn.

"The 94Es [Radio and Communications Security Repairers] that came with us have not been able to conduct maintenance on SINCGARS (Single Channel Ground and Airborne Radio System) because of the lack of resources in our unit's shop," said Staff Sgt. Scott Benson. "Tobyhanna's SINCGARS team fully incorporated our personnel in daily operations, giving us the experience and tools necessary to establish our SINCGARS repair shop."

One mission of the 322nd SMC focuses on providing direct support maintenance and repairs on communications equipment across a wide range of military occupational specialties, many of which can be accommodated for depot training.

"Ninety percent of our unit's military occupational specialties are supported at Tobyhanna," said Sgt. Kurt Erickson. "Coming here gives our unit training opportunities we might not get anywhere else."



**Pfc. Taylor Steffen repairs a Single Channel Ground and Airborne Radio System (SINCGARS) Radio Transmitter (RT). (Photo by Steve Grzedzinski, Tobyhanna Army Depot)**

Two years ago, Benson visited the depot for several weeks of training at the High Tech Regional Training Site. Following recent reorganization, the unit moved into a new shop and was looking to learn additional skills. Benson requested to bring the unit back to TYAD for additional communications electronics training and highlighted several benefits of coming to the depot.

"The training provided at Tobyhanna gives these Soldiers the opportunity to work in the labs and maintenance facilities of a premier depot," he said. "They also get the chance to learn from technicians that have years of experience and observe the routine processes and shop operations used by the depot that they may be able to transplant into their own operations."

"Thanks to the wide range of training offered here and the great support of depot personnel, we will be able to immediately apply our new skills to our duties back home."



**From left, Sgt. Mike Burrell verifies electrical test data sheets with Stacy Klemke, Spc. Daniel Steinbruckner inspects SINCGARS RTs, Darlene Navarra shows Spc. Zachary Dehn how to apply dust covers to RTs, and Pamela Eisenhauer inspects an RT prior to final testing. Klemke and Navarra are electronics mechanics in the Communications Systems Directorate's SINCGARS Branch. Eisenhauer is an electronics mechanic in the Command, Control and Computers/Avionics Directorate's Airborne Communications Instrument Branch. (Photo by Steve Grzedzinski, Tobyhanna Army Depot)**

# Hobby drives volunteer to help veterans

by Jacqueline Boucher, Tobyhanna Army Depot

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“Veterans Helping Veterans” are words to live by according to one Tobyhanna Army Depot, Pa., employee.

Electronics Equipment Specialist Jonathan McBride helped raise more than \$59,000 last year by volunteering to support more than 30 fundraisers. He is the commander of Chapter 15-1, Combat Veterans Motorcycle Association near Fort Bragg, N.C. The association is made up of combat veterans from all branches of the United States Armed Forces who ride motorcycles as a hobby.

McBride is assigned to the East/Europe Division, Field Logistics Support Directorate’s Air Defense and Airspace Management (ADAM) Cell, Fort Bragg. He provides logistics support for units located in the East Region and European Theater.

*“The association’s mission is to support and defend those who have defended our country and our freedoms,” McBride said. “We help veteran care facilities provide a warm meal, clothing, shelter and guidance. A simple thank you or welcome home goes a long way,” he said.*

The association participates in or sponsors motorcycle-related events each year.

“I fully believe in the mission of our organization,” he said. “This organization is a way for me to give back to those veterans who have sacrificed so much.”



**Jonathan McBride, electronics equipment specialist, puts a network switch in a transit case after replacing a faulty power supply. McBride helped raise more than \$59,000 last year by volunteering to support more than 30 fundraisers. (Photo by Lewis Perkins, Fort Bragg)**

McBride is also a member of the Cumberland County Veterans Association, the Disabled American Veterans, Patriot Guard and American Legion.

Members of the motorcycle association also provide escort for funerals, and participate in public awareness campaigns, parades and ceremonies. So far this year, the volunteers are booked to attend 19 events.

McBride said the organization has also helped fund moving costs for some veterans. The veteran volunteer said most communities post opportunities to volunteer.

“Each person is different; take the time to do the research and pick something that interests you,” he suggests to someone just getting started. “There are several organizations that need a helping hand.”

# PROVIDING THE CRITICAL LINK



**A CV-22 Osprey prepares to launch on the flight deck of the multipurpose amphibious assault ship USS Iwo Jima (LHD 7) during flight operations. (U.S. Navy photo by Mass Communication Specialist Seaman Jesse Monford)**

## **Central Technical Support Facility (CTSF)**

### **Training support**

CTSF's Coalition Interoperability Assurance and Validation team has started execution of a validation and verification for Virtual Battle Space version 3 (VBS3), which is a flexible simulation solution for scenario training and mission rehearsal. VBS3 expands on its predecessor by improving the open architecture, providing faster performance for multicast systems and introducing a new, more intuitive user interface. VBS3 was selected by the U.S. Army as the flagship product for its Games for Training program and has become an industry standard in game-based military simulation.

## **Logistics and Readiness Center (LRC)**

### **Providing night vision devices**

The LRC Security Assistance Management Directorate responded to a short fuse tasker to respond to a Letter of Request from Pakistan for the procurement of Night Vision Devices (NVDs). The NVDs will increase Pakistan military capability to protect against a rising threat against their military bases that house U.S. personnel. The case was tasked on June 20. The Defense Science and Technology Agency waiver, which approves actual movement of material, was received on July 10. CECOM was informed the next day that NVDs had to be in queue at Joint Base Charleston on July 17 to be manifested for delivery to Pakistan on July 23. The NVDs arrived with just hours to spare.

## **Information Systems Engineering Command (ISEC)**

### **Base upgrades**

The CECOM Information Systems Engineering Command, in support of Program Executive Office Enterprise Information Systems, is supporting the systems engineering, installation, test and training for upgrades of the Vandenberg Air Force Base Interconnect Facility. The upgrade includes a

fiber optic interconnect that provides Internet Protocol circuit connections from Vandenberg to the satellite earth terminal for transmission over the Wideband Global Satellite System. This will provide greater capabilities for users, quicker data transmissions, and more reliable communications for users.

### **Satellite terminal facility completion**

The CECOM Information Systems Engineering Command completed all testing, training, and circuit activations at the Fort Belvoir, Va., satellite terminal facility, and the facility has achieved Initial Operational Capability. This terminal is the first of its kind to be completed under the Project Manager Defense Communications and Army Transmission Systems Modernization of Enterprise Terminals program. Fort Belvoir's new system will provide significant bandwidth to wideband users by simultaneously operating over multiple frequency bands.

## **Software Engineering Center (SEC)**

### **ManTech Awarded \$89 Million Task Order**

The U.S. Army Contracting Command-Aberdeen Proving Ground has awarded ManTech International Corporation a task order to provide command, control, and communications system field software engineering support to the Army's Software Engineering Center. The cost-plus-fixed-fee task order was awarded under the Software and Systems Engineering Services contract and has a 12-month base period of performance and one 12-month option period, with a potential total value to ManTech of \$89.4 million.

Under the contract, ManTech will continue to provide worldwide garrison, exercise, and combat

operations support to the users of strategic and tactical command, control, and communications systems. ManTech will also provide field support for logistics management systems and training support for overseas mission command training centers.

### **Soldier personnel and pay**

SEC, in support of Program Executive Office Enterprise Information Systems conducted a software code and quality assurance review of the Integrated Personnel and Pay System – Army (IPPS-A) in preparation for security accreditation and release approval. IPPS-A is the Army's web-based Human Resources record system, which will standardize, streamline, and integrate Soldier personnel and pay processes and data by giving Soldiers access to their own personal information via a self-service portal. IPPS-A is being deployed to the Army National Guard, with deployment to the Regular Army and U.S. Army Reserve to follow.

### **SEC and PM Air Warrior are providing Support to U.S. Navy CV-22 pilots**

SEC supported PM Air Warrior's Aviation Night Vision Imaging System Heads Up Display (AHUD) simulation for U.S. Navy CV-22 pilots, familiarizing them with the increased capacities to provide them increased survivability and mission success in low visibility situations. SEC's AHUD team traveled to Philadelphia, PA, to support a

simulation of the V-22 Osprey AHUD software update using the Boeing V-22 simulator. The US Navy CV-22 pilots flew the software while SEC witnessed and collected feedback to ensure the pilots were comfortable with using the software update on the V-2 aircraft. SEC is the lead developer of the new HUD v1.2 software update, which provides pilots with increased flight data and capability for increased survivability and mission success in low visibility situations.

### **Support to Australian Army**

CMWS is the Army's missile warning system fielded on rotary and fixed wing aircraft, also used by many countries through the Foreign Military Sales program. It detects infrared based missiles and dispenses countermeasures (flares/chaffs) to defeat it. SEC provides PPSS to sustain the CMWS and since Australia is currently acquiring CH-47F Chinook aircraft, they want to establish their own sustainment capability. In addition to supporting Australia for CMWS SEC is providing an In-Country Reprogramming Capability allowing the Australians to develop their own Mission Data Sets for the AN/APR-39A(V)4 Radar Warning Receivers installed on the same CH-47F aircraft. The AN/APR-39A (V)4 provides the pilot an audio and visual warning of radio frequency threats.

### **Tobyhanna Army Depot (TYAD)**

#### **Air Force support**

TYAD has been named the Depot Source of Repair (DSOR) for the Air Force's Fixed Site Satellite Communications (SATCOM) Terminal (FSST) for their Predator and Reaper programs. Tobyhanna representatives are working with the Air Force to develop repair capability for the FSST components in anticipation of a FY16 depot stand-up.

#### **Training Multimedia Language Laboratory installations**

TYAD will install a 20-position Training Multimedia Language Laboratory (TMLL) at the Mexican Army Headquarters, and a 10-position TMLL at the Transmissions School, in Mexico City. At the conclusion of these installations, Tobyhanna will have installed a total of 446 TMLLs in 71 countries. The TMLL program aids foreign friendly military with funding through the State Department for the install through the International Military Education and Training Program.



**CECOM SEC and Australian Defense Forces members discuss on-going efforts for the AN/APR-39A(V)4 Radar Warning Receiver and CMWS capability requirements. (Photo by Joanie Snyder, Software Engineering Center)**



# Two CECOM civilians receive prestigious Louis Dellamonica Award

by Kristopher Joseph, CECOM Public Affairs



**From left to right: Donna A. Albietz, inventory management specialist, Communications-Electronics Command (CECOM) Logistics and Readiness Center and Coreen R. Mueller, logistics management specialist, CECOM Communications Security Logistics Activity, were recipients of the Army Materiel Command's Louis Dellamonica Award for Outstanding Personnel of the Year.**

Two Communications – Electronics Command (CECOM) employees were recipients of the U.S. Army Materiel Command's (AMC) Louis Dellamonica Award for Outstanding Personnel of the Year, awarded in honor of the oldest and longest serving Department of Defense employee, who retired at age 94.

The annual award recognizes outstanding achievements that significantly contribute to AMC's mission and objectives. Every year AMC selects employees, military and civilian, below the rank of general officer and senior executive service, who meet the established guidelines and embody the attributes of integrity, leadership, teamwork, innovation, and professionalism, exemplified by Dellamonica during his 65-year

career as an AMC general engineer.

The awardees were Donna A. Albietz, an inventory management specialist in CECOM's Logistics Readiness Center (LRC) at Aberdeen Proving Ground, Md., and Coreen R. Mueller, a logistics management specialist at CECOM's Communications Security Logistics Activity (CSLA) at Fort Huachuca, Ariz.

As the CECOM Accountable Property Officer, Albietz is responsible for providing oversight and management of the Command's Wholesale Property Account valued in excess of \$6 billion.

.....> story continued on next page



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Her span of control and level of responsibility is perhaps unmatched by any of her peers. During the inclusive dates of this award, Albietz worked tirelessly to ensure accurate accountability of worldwide CECOM assets, according to her supervisor Abel Salgado, supervisory inventory management specialist, CECOM LRC.

“Without question, Donna’s performance has not only motivated her teammates, but inspired them to improve processes and strive to exceed established accountability standards,” said Salgado. “She has undoubtedly served the Department of Defense and the Army with distinction and a professionalism that is second to none. Her performance demonstrates a track record of significant accomplishments with Army-wide impact.”

“I am honored to be chosen for this award,” said Albietz. “To even be selected is humbling, and winning would not be possible without the help of my fellow co-workers.”

When asked what she likes about working for the Army, Albietz replied, “I like my job, because the work that I do helps the Army run more efficiently. I like working for the Army because of its camaraderie that forms a cohesive unit.”

Mueller’s logistics expertise actively supports special projects requiring coordination with other military services and government agencies pertaining to the planning, design, implementation, and evaluation of policy and process supporting Communications Security (COMSEC) equipment and related systems, according to her supervisor Christopher Ward,

National Maintenance Point, Information Assurance Division, CECOM CSLA.

“Coreen’s attention to detail, dedication, and commitment to excellence in day-to-day performance has resulted in savings of over \$37 thousand in maintenance screening costs,” said Ward. “She is held in high regard by both peers and supervisors because of her professionalism in accomplishing each and every assigned and implied task. She continually strives to improve her technical and professional skill set by taking on extra assignments. Coreen demonstrates her commitment to integrity by always doing the right thing and she can be counted on to go the extra mile.”

“It is definitely an honor to be recognized at this level, but no one gets an award like this without the support of their coworkers and leadership,” Mueller said.

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*When asked to describe her impacts in the work place, Mueller stated that being recognized by your peers does not happen overnight. “It is built on a foundation of trust and mutual respect. It takes hard work, a good attitude, and the willingness to ask questions and learn what you don’t know.”*

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# CITE designation promotes maximum efficiencies, defines areas of expertise

by Tracy Kraftchisin, Tobyhanna Army Depot

To become CITE designated, a depot-level activity must have a recognized core competency that does not exist anywhere else in the Army.

Tobyhanna Army Depot's joint missions are exemplified by its designation as the Army's Center of Industrial and Technical Excellence (CITE) for C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance) and electronics, avionics and missile guidance and control. The Secretary of the Army is required to designate each Army depot as a CITE in one or more specific technical competencies required for core capabilities, according to Title 10, United States Code, Section 2474.

The program promotes maximum efficiencies by creating and defining areas of expertise within the organic industrial base. Other benefits include experiencing maximum use of property, plant and equipment, and fostering cooperation between the armed forces and private industry.

When new systems are developed, an organic source of repair is determined based on the CITE designations of the depots. CITE designations enhance direct support to the joint warfighters. The goal is to increase synergy between the organic and private enterprise, thereby producing benefits for the warfighter on a Defense Department-wide scale.

Army officials understand a CITE designation can open doors for depots to engage in public-private partnerships, which may reduce costs and maximize the use of Tobyhanna's skills and capabilities. Partnerships reduce ownership costs of an organization as well as the cost of products. Being able to partner with private industry helps Tobyhanna reduce its cost by sharing some of the expenses of operations with its partners.

Tobyhanna joins nine existing CITE facilities across the country that specialize in different core competencies.

- Anniston Army Depot, Ala., is the CITE for combat vehicles (wheeled and track, except Bradley) including assault bridging, artillery and small caliber weapons.
- Corpus Christi Army Depot, Texas, is the CITE for aviation structural airframes and blades, advanced composite technologies, flight controls and control surfaces, aviation engines, transmissions and hydraulic systems including sub-system accessory components, armament, electronics and support equipment.
- Letterkenny Army Depot, Pa., is the CITE for air defense and tactical missile ground support equipment (except missile guidance and control) and mobile electric power generation equipment.
- Red River Army Depot, Texas, is the CITE for tactical wheeled vehicles, small emplacement excavator, Bradley fighting vehicle series, multiple launch rocket system chassis, Patriot missile re-certifications and for rubber products necessary for sustainment and support to the United States and allied forces and agencies.
- Sierra Army Depot, Calif., is CITE for reverse osmosis water purification units.
- Sierra Army Depot, Calif., is CITE for petroleum and water storage and distribution systems.
- Tooele Army Depot, Utah, is the CITE for ammunition peculiar equipment.
- Watervliet Arsenal, N.Y., is the CITE for cannons and mortars.
- Pine Bluff Arsenal, Ark., is the CITE for chemical and biological defense equipment.
- Rock Island Arsenal-Joint Manufacturing and Technology Center, Ill., is the CITE for mobile maintenance systems

# Awards ★★



Taking positive action to support workforce wellness.

The Software Engineering Center's Tactical Logistics Directorate Wellness team is striving to educate the workforce to make smarter financial, heart health, nutrition, diet and exercise choices. The team publish posters for the workplace promoting exercise, water intake, nutrition choices and proper sleep. They coordinate with experts in Fort Lee, Va., to conduct wellness training on health, ergonomics, emotional, spiritual and physical needs. In addition, the team circulates emails and provides community awareness by posting relevant information on the wellness bulletin board.

June Milligan (3rd from right), Safety and Occupational Health specialist from the Installation Safety Office at Fort Lee, Va., presented gifts to (l to r) Margaret Bumbry, Ray Brown, Lonnie Hobbs, Sophia Akrea, Thomas Groves and Ronald Sykes, of the Communications-Electronics Command Software Engineering Center's Tactical Logistics Directorate (TLD) on July 28, 2014. They were recognized for their outstanding support and commitment to TLD's pro-active safety program and for spearheading the wellness program. (Photo by Mike Dunbar )



Fort Huachuca, Ariz. – IT2 (SW) Daniel Colon of Naval Communications Security Material System (NCMS) Detachment Fort Huachuca was recently selected as the NCMS Junior Sailor of the Quarter (JSOQ) for 3rd Quarter 2014. The JSOQ board is highly competitive and Petty Officer Colon's selection is a testament to his dedication to duty and impeccable military bearing. IT2 Colon's outstanding performance as a Central Office of Records Manager for CECOM Logistics Readiness Center's Communications Security Logistics Activity, resulted in his selection for this coveted award.

Colon's initiative, perseverance, and total devotion to duty are in keeping with the highest traditions of the United States Military Service and reflect great credit upon him and this organization. (Official U.S. Army photo)



Fort Bragg, N.C. – Maj. Gen. Bruce T. Crawford, Commanding General, Communications-Electronics Command, presents Logistics Assistance Representative Richard "Rick" Tavares, power generation master technician, with the "Eagle Award" for forty years of service at Fort Bragg, N.C. on July 18, 2014. This relatively new award was created to highlight excellence and is presented to those who inspire innovation and challenge the status quo. (Official U.S. Army photo)

# HAIL & Farewell

The Communications-Electronics Command (CECOM) welcomes its new military servicemembers:

*Col. Charles Harris*  
CECOM Headquarters

*Col. Federica King*  
Central Technical Support Facility

*Sgt. 1st Class Jermaine Allen*  
Logistics and Readiness Center (LRC)

*Lt. Col. Eric Vandeweg*  
Information Systems Engineering  
Command (ISEC)

*Staff Sgt. Nicole Tamangided*  
Communications Security Logistics Activity

*Capt. Marvin Phillips*  
CECOM Headquarters



CECOM congratulates the following employees on their departure:

*Stephan A. Arrington*  
Office of the G8  
July 3, 2014

*Ariel Nieves*  
Software Engineering  
Center (SEC)  
Aug. 29, 2014

*Freddie Merced*  
LRC, Aberdeen Proving  
Ground (APG), Md.  
Aug. 31, 2014

*George Frederic Molesa*  
LRC-CFE West  
Joint Base Lewis-McChord,  
Wash.  
Aug. 31, 2014

*Eugene H. Vogt*  
ISEC, Ft. Huachuca, Ariz.  
July 18, 2014

*Cheryl L. Jackson-Ashe*  
LRC, Ft. Belvoir, Va.  
Aug. 30, 2014

*Nelson O. McMicken*  
ISEC, Ft. Belvoir, Va.  
Aug. 2, 2014

*Churon Ringgold*  
Secretary to the  
Commanding General  
Sept. 6, 2014

*Sgt. 1st Class Sheldon  
Whitefield*  
LRC, APG  
Oct. 31, 2014



# God's Will

Maj. (P) Young D. Kim, CECOM Command Chaplain

Today, I'd like to talk about God's Will according to the Book of Acts 23. Acts 23 said that forty Jews decided not to eat or drink until they had killed Apostle Paul. One of Paul's nephews heard of this plot, and told him. One of the centurions hears this from Paul and plans to move him to Governor Felix and prepares 470 soldiers to move him safely.

Jerusalem was the seat of Jewish government, but Caesarea was the Roman headquarters of the area during the 1st Century. God works in amazing ways. He could have used any number of ways to get Paul to Caesarea, but he chose to use Roman Soldiers to deliver Paul from his enemies and escort him to Caesarea, where he was to have an audience with some top Roman officials. Although men planned for evil, God thwarted and turned it into something good. Proverbs 16:9 says, "In his heart a man plans his course, but the Lord determines his steps." He was orchestrating everything behind the scenes.

*God's ways are not our ways. Our ways are limited; His are not. Don't limit God by asking Him to respond your way. When God intervenes, anything can happen, so much more and so much better than you could ever anticipate. Don't get anxious; don't lose your patience. Don't try to force something to happen that wasn't in His plans. He will make a way for you. Proverbs 16:3 says, "Commit to the Lord whatever you do, and your plans will succeed."*

**Blessings!**

# LRC Soldier provides Master Resilience Training to ISEC



Sgt. 1st Class Elizabeth Gonzalez, from the Logistics Readiness Center's Communications Security Logistics Agency, presented an overview of the Army's Master Resilience Training (MRT) program during Information Systems Engineering Command's quarterly Town Hall briefing on July 29, 2014. Gonzalez provided training to over 300 ISEC employees on the Army's intent with MRT. The scope of the brief consisted of the Army's mission of the Comprehensive Soldier and Family Fitness Program. One of the Army's top priorities is to develop a holistic fitness program for Soldiers, Family members and Civilians in order to enhance performance and build resilience.

Gonzalez spoke about how resilience training offers strength-based positive psychology tools to aid Soldiers, Leaders, and Families in their ability to grow and thrive in the face of challenges and bounce back from adversity. Gonzalez also illustrated the significance of the MRT core competencies. The overall brief provided exceptional and informative situational awareness on how personal and Army "resiliency" can always be enhanced. As a token of appreciation and a job well done, Col. Patrick Kerr, ISEC commander, presented Gonzalez with an ISEC Commander's coin for excellence.

# Safety is not by accident; plan to survive!

by Robert McNabb, CECOM Safety Office

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Preparing for an emergency requires a bit of effort, but it's time well spent. What if an explosion, a landslide, or a flash flood forced an evacuation of your neighborhood before you got home from work? Would you know where to find your family? Do you know the emergency plans for your children's school? At work, do you know your role in your company's emergency response plan? Emergency preparedness is considering what can go wrong and what to do if it does. This does not mean you must be in a constant state of worry. It does mean you should pay attention to your environment and continue planning how you can stay safe. It also means you develop survival skills and keep survival tools accessible.

## Here are some examples of emergency-ready habits:

- When you are in any building — a home, plant, office, hotel, shopping center— know where you are in relation to at least two exits.
- Figure out how to get to the stairs in case you cannot use the elevator.
- Notice the location of fire alarms, firefighting equipment, emergency phones, and first aid kits. Read the instructions so you will know how to operate them.
- On public transport, read the emergency instructions. Locate exits and read how to open windows on trains or buses. Know how to find the break-glass hammers and window latches in the dark. Learn how to use oxygen masks on aircraft. Pay attention to the emergency instructions review presented by the on-board attendant.

# SAFETY FIRST

- Dress for the weather outdoors not the weather inside a vehicle when you travel. Many kinds of mishaps can leave you stranded outside an automobile or aircraft in a cold and hostile environment. Carry warm clothing and shoes you can use outdoors.
- Pack basic repair tools and replacement parts such as extra fan belts in your automobile. Keep the spare tire inflated.
- When you go to sleep at home or away, be ready for an emergency. Place your shoes under the bed and your clothes nearby. Put eyeglasses and flashlight in a protective spot where you can reach them easily. If you are awakened by fire, you may not have time to search for these items. If an earthquake strikes, the power may go out and you may have to walk through debris.
- Pack an emergency kit with survival supplies to maintain your family for at least two days. Keep it ready to take with you in case of a disaster.
- Carry a flashlight when you travel. It can light your way to safety from a burning hotel or a crashed transit vehicle.
- Protect yourself from violence by remaining aware of the people around you. Look into an elevator or hallway before entering. Look through the window before entering a late night convenience store or liquor store so you don't stumble into a robbery.
- Learn first aid and CPR (cardiopulmonary resuscitation). Learn how to use an AED (automated external defibrillator).

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*Wherever you are, be prepared to protect yourself if things go wrong. Emergency preparedness means planning to survive.*

# Work on thumb screws easier with new device

by Jacqueline Boucher, Tobyhanna Army Depot

It didn't take long for a Tobyhanna Army Depot, Pa., employee to realize that manually removing and installing thousands of thumb screws every month would eventually take a toll on his wrists and hands.

After only a few weeks on the job, Electronics Mechanic Helper John LaCapra came up with an idea that would prevent injury and improve efficiency. A socket adapter that attaches to a power screwdriver makes quick work of the 44 turns it takes to unscrew one of four thumb screws found on the AN/VRC-92F Vehicular Radio Set mounting base.

LaCapra explained that the screws are removed or installed at each phase of the four-step process, totaling nearly 100,000 turns per order of 550 bases.

As an added benefit, employees clocked the adapter at 3.3 seconds per screw, while it took 18.1 seconds by hand. LaCapra works in the Communications Systems Directorate's Tactical Communications Division.

"With this tool we can produce a quality product while keeping safety as a priority," said LaCapra. "The increased speed allows us to meet the customers schedule on time, every time."

According to Industrial Engineer Mike Sudimak, thumb screws are designed to be operated by hand to eliminate the need for tools. Just grip the flat surface between thumb and finger and turn, he said.

"That's convenient when you only need to loosen a few, but if you have a hundred a day, it can be tiring," said Sudimak, who works in the Productivity, Improvement and Innovation Directorate.

LaCapra and his coworkers tested several types of adapters before coming up with the final design. This device also helps center the wing nut automatically and makes it easier to recognize when a wing nut is bent.

"We've created enough adapters to share with other organizations," LaCapra said. "For instance, there's a SINCGARS (Single Channel Ground and Airborne Radio Systems) mission that pushes out 750 kits a month and there are five thumb screws on each unit."

Electronics Mechanic Billy Smith has been working on systems removing and installing thumb screws for about 10 years. This is the third time he's worked on a job of this magnitude.

"This is a great tool," Smith said. "It saves so much time and I really wish I had thought of it first."

These screws are used on a number of military systems, according to Steve Janiga, Microwave Radio Branch chief.

"This is quite an accomplishment for John," he said. "We'll be able to share this device with several other shops on the depot."



**John LaCapra, electronics mechanic helper, Tobyhanna Army Depot, Pa., removes thousands of thumb screws every month using a new device he designed that prevents injury and improves efficiency. (Photo by Steve Grzedzinski)**

# AROUND *the* COMMAND



Aberdeen Proving Ground (APG), Md. – (Center) Maj. Gen. Bruce T. Crawford, APG Senior Mission Commander and Commanding General, U.S. Army Communications-Electronics Command, was pinned by his sons, (left) 1st Lt. Bruce Crawford, Jr., and (right) Corey Crawford, during his promotion ceremony held at the C4ISR campus at APG on Monday, July 21. Gen. Dennis L. Via, Commanding General, U.S. Army Materiel Command presided over the event. (Photo by Sean Kief, Aberdeen Proving Ground Garrison photographer)



Tobyhanna Army Depot, Pa. – Hoang, electronics mechanic, inspects humidity indicators on the SMART-T feed horn assembly for moisture. Members of the Tactical Satellite Equipment Branch rebuild, repair, overhaul, align, modify, test, install, and provide technical assistance and orientation training on the extremely high frequency, and advanced extremely high frequency, Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T). Employees ensure that the SMART-T is mechanically repaired and adjusted to meet original manufacturer specifications for fit, form and function. Terminals are then operationally tested in a secure area by sending and receiving data. (Photo by Steve Grzedzinski, Tobyhanna Army Depot)



Aberdeen Proving Ground, Md. – The Hon. Michael A. Battle, Sr., senior advisor to the U.S. State Department's African Bureau, was the keynote speaker during the APG community prayer luncheon hosted by the Research Development and Engineering Command on Wednesday, July 16, at the Top of the Bay. (Photos by Conrad Johnson, RDECOM photographer)

# PRIME readies to deploy

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The Performance Review Interface for Managers and Employees (PRIME) is being implemented throughout the Communications-Electronics Command over the next few months. The CECOM Software Engineering Center developed PRIME as an automated solution designed to facilitate the Performance Management business process. PRIME currently supports the Total Army Performance Evaluation System (TAPES) and the Science and Technology Demonstration Project. It turns a labor-intensive manual process into an online workflow that seamlessly guides users at all levels through the Performance Management process.

CECOM will deploy the PRIME system to its TAPES employees and supervisors. PRIME will automate the key processes of TAPES and provide a complete central workflow for performance evaluation. It will provide email notifications to alert process stakeholders of pending actions, and ensure timely execution of all phases of the performance evaluation process. Furthermore, it will serve as a central data repository to ensure that all users are seeing the latest information.

The PRIME Deployment team and the CECOM PRIME Deployment Workgroup will develop a detailed training plan for all affected personnel across the command. The PRIME Deployment team will hold training sessions geared towards three distinct audiences:

- HR Managers
- Supervisors
- Employees

DCO training sessions will be provided for users located at remote locations.

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The implementation for PRIME is tentatively scheduled as follows:

**Aug. 11, 2014**

Roll out for Grades 1-8

**Sept. 8, 2014**

Roll out for Grades 13 & above

**Nov. 3, 2014**

Roll out for Grades 9-12



## Training:

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Friendly reminder that all fiscal year 14 training needs to be completed by **September 30!**

**“Solar-Able to Solar-Baker” – Sunlight striking the giant solar battery “dish” in background provides enough electricity to make coast-to-coast radio contact. 1960.**



## History Highlights

# Signaling the sun

by Susan Thompson, CECOM Command Historian

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*August brings the hot days of summer to an often stifling crescendo, but is the perfect month to reflect on the historic efforts of the Signal Corps to capture the power of the sun for our own uses.*

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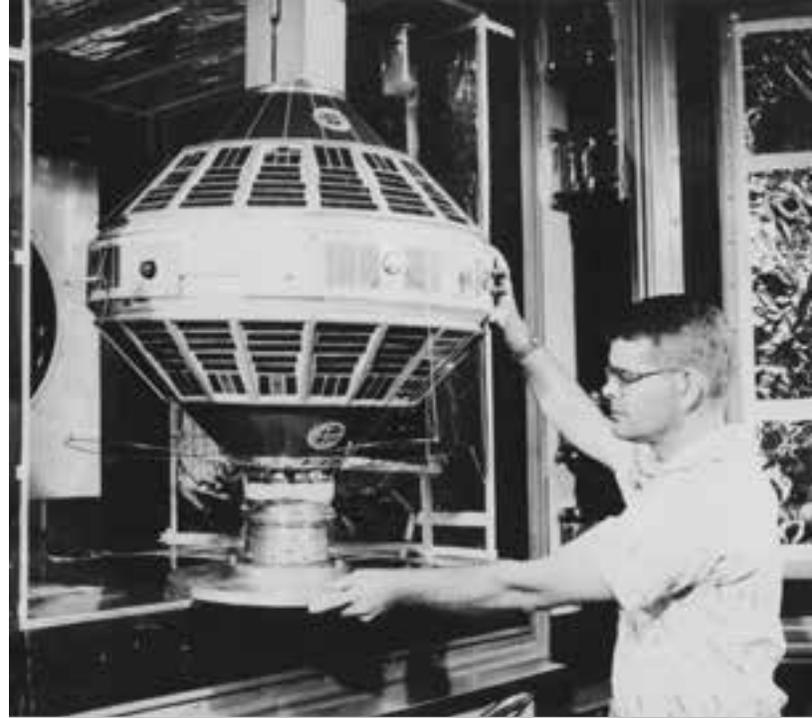
The U.S. Army Signal Corps began experimenting with the heliograph, a method of visual signaling using reflections of sunlight bounced off of mirrors, around 1873, according to historian Rebecca Raines in her

book “Getting the Message Through: A Branch History of the U.S. Army Signal Corps.” It was a method ideally suited to the hot, sunny climate of the American Southwest, and was used extensively in the Army’s campaigns against the Apache Indians in 1886. The heliograph remained a viable means of visual signaling, and continued to be taught during Signal training through the 1920s, though it served as more of a back-up system used during periods of emergency, than as a primary system of communication.

The scientists of the Signal Research and Development Laboratory (SRDL) began testing the application of solar cells for satellites beginning in 1955, and in 1958 the Vanguard I was launched with solar cells which allowed the transmitter to operate for more than six years. Solar power quickly became standard equipment on satellites and space probes based on the success of the solar cells used on Vanguard I. When Explorer VI was launched on Aug. 7, 1959, the satellite carried a permanent electrical power source of 2,886 solar cells packed into two huge rings. The solar rings



**Soldiers at Camp Little Silver, August 1920, training on heliograph. The U.S. Army Signal Corps adopted the use of square mirrors in 1888, because they provided more reflecting surface for the same packing space as circular mirrors. Messages were conveyed over 183 miles using this equipment.**



**Explore VI Satellite in production, showing solar rings. 1958.**

were designed and built by the SRDL. The establishment of the National Aeronautical and Space Agency (NASA) on Oct. 1, 1958, limited the military's future role in space exploration, though the Signal Corps continued to work with NASA on the development of electronic and communications systems.

In 1960, in celebration of the 100th Anniversary of the U.S. Army Signal Corps, the SRDL achieved the first two-way, coast-to-coast radio conversation powered exclusively with solar energy. A station at Fort Monmouth, N.J., and one in Los Angeles, Calif., were equipped with 20-square-foot panels of solar batteries, which were the most powerful solar arrays ever assembled for ground applications. Until this point, solar batteries had been used mainly in satellites and space vehicles.

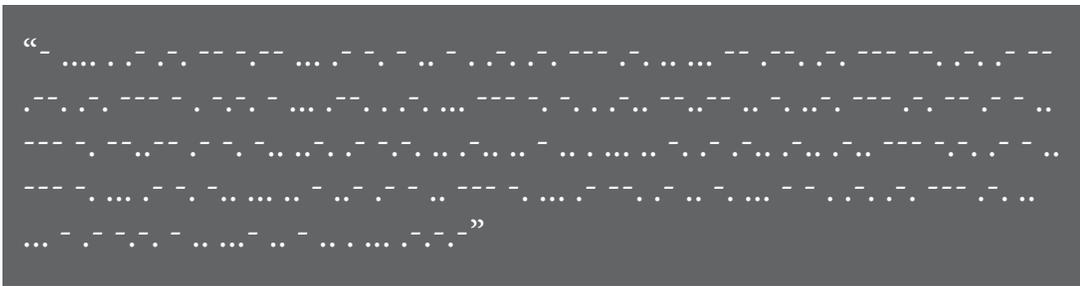
Research on solar cells continued at the SRDL throughout the 1960s, with efforts focused on determining the most efficient type of cell, the best types of materials to use for solar cells, design parameters, including the use of filters and coatings to increase performance. One of the major discoveries made at SRDL was an "inverse" solar cell that could withstand high levels of radiation in space. In the 1970s, experiments were done with solar-reflecting and solar-absorbing paints to manage heat-load in electronic equipment under development.

As increased efficiency and wide-spread use of solar cells continues to be developed and the technology perfected, the summer sun is a reminder of the potential of solar energy, and the Signal Corps' place in the ongoing story of harnessing the power of the sun.





# CECOM DOTS and DASHES



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

**Morse code for - "The Army's Antiterrorism Program protects personnel, information, and facilities in all locations and situations against terrorist activities."**

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