

**Winter 2013
Newsletter**

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Exploring Edgewood

Early in my career, I had the good fortune to work at what was known as Edgewood Arsenal, now called APG South. It is a study in contrasts – sleek laboratories next to crumbling WWII-era shacks. Fresh-faced new hires working beside grizzled ‘seen it all’ veterans. It has supported 95 years of military activity and has grown and changed as each conflict has required.

Edgewood looks very different now than when I started my career. It has especially changed over the last 10 years. During that time, BRAC consolidated chemical and biological defense organizations at Edgewood, co-locating program management and research and engineering capabilities. BRAC 2005 moved to Edgewood the Joint Program Manager for Chemical and Biological Defense, a component of the Defense Threat Reduction Agency, and the medical chemical defense division from Walter Reed Army Hospital. They joined Edgewood Chemical Biological Center, 20th Support Command, Chemical Materials Agency, Medical Research Institute for Chemical Defense, and the Public Health Command. With all

of this capability (both human and infrastructure), there is no question Edgewood is the world’s center of gravity for chemical and biological research and development.

However, I am concerned about maintaining these critical defense capabilities through what is likely to be an austere time ahead. Edgewood is reliant on the Facilities Reduction Program to eliminate its decaying buildings. Also, it needs a strong internship and recruitment program to continue to bring in the best and brightest scientists and engineers. This issue will be pursued by the Army Alliance in the coming years.

In this issue of the Army Alliance newsletter, we discuss the issue of facilities management at Edgewood, and examine the U.S. Army Public Health Command – its leadership and its mandates.



Barney Michel
Army Alliance President

Principal Deputy Assistant Secretary of Defense outlines DoD’s science and technology priorities at Army Alliance Breakfast

Creating disruptive advantage, and avoiding disruptive surprise are the fundamental principles of DoD’s science and technology



Alan Shaffer considers a question from a member of his Army Alliance audience at the recent annual Breakfast.

priorities for 2013-2017, said Mr. Alan Shaffer, Principal Deputy, Assistant Secretary of Defense for Research and Engineering, in his address to Army Alliance sponsors and guests at its Annual Breakfast in November.

Mr. Shaffer, who is responsible for formulating, planning, and reviewing the DoD Research, Development, Test, and Evaluation (RDT&E) program and executing its budget, said that DoD will invest in technologies that give the U.S. the advantage in “the commons:” the oceans, electromagnetic spectrum, space, the cloud – places that no one owns.

Such technologies support electronic warfare/ protection, cybersecurity, and countering weapons of mass destruction. Future technology needs to be force multipliers: technology that turns data into decisions, engineered resilient systems, technology that promotes social and cultural understanding, and autonomous systems.



Army Alliance event attendees enjoy opportunities to network and hear APG and DoD speakers talk about the program, policy, and funding issues that may impact APG.

Continued from page 1

Mr. Shaffer called on small businesses to push innovation in defense technology, and would like to see expansion of Small Business Innovative Research (SBIR) programs and an increase in private sector commercialization of defense technology.

Lastly, Mr. Shaffer called on the acquisition community to recognize that right now the pace of technology and its market availability is exceeding the pace of acquisition in the military. Over the decades, the technology adoption timeline has greatly shrunk, and needs to become even shorter to keep pace with innovation around the world.

Study of Route 22 Corridor Released

Harford County recently investigated transportation and safety improvements to the MD 22 corridor as part of a study recently released and available at http://www.apg-cssc.com/_media/client/pdf/CSSCMD22presentation.pptx. The report contains short, medium, and long-term recommendations for improving the Route 22 corridor from Bel Air to APG gate. Demand management strategies, access management, transit upgrades, bicycle and pedestrian accommodations, and other components are part of the recommendations.



Army issues memo calling for immediate cuts in spending

Federal employees across the government are nervous about the possibility of sequestration, and budget reduction. Army civilians are particularly anxious, as the Pentagon issues guidance to slow spending in anticipation of forced spending cuts of sequestration if Congress does not agree to a budget by March. Unpaid furloughs of civilian employees are on the table as a possible step toward balancing the books, although considered unlikely by some.

In a memo from Army Secretary John McHugh dated 16 January, he calls for the Army to “act now to reduce our expenditure rate and mitigate budget execution risks in order to avoid even ore serious future fiscal shortfalls.” Actions ordered in the memo that will impact APG include:

- Implement a hiring freeze and terminate temporary employees
- Reduce base operating funding to achieve a 30% reduction of FY13 Base Operations Support, which may impact community and recreational activities, reduction in contracts, and reduction in utilities consumption
- Curtail professional training not mission-critical, including visits, seminars, conferences not related to maintaining readiness for Operation Enduring Freedom
- Cancel ongoing or scheduled studies that are not congressionally directed or mission-critical
- Limit administrative and supply purchases to FY13 consumption only
- Cease minor purchases, such as furniture, technology refresh, and unit equipment
- Cease facilities sustainment activities like restoration and modernization projects, and facilities reduction program projects
- Cancel 3rd and 4th quarter depot maintenance and reset orders not related to unit deployment



Further, the memo requires that all research, development, test, and evaluation contracts that exceed \$500 million be submitted to the Under Secretary of Defense for approval. And organizations submitting requests must provide extensive documentation and explanation of the contract, its dollar value, and an assessment of why it cannot be delayed.

The Army Alliance is very concerned about the impact of budget cuts on the APG community. We have capabilities and expertise that we cannot afford to lose. We will continue to monitor this issue and pass along information to our sponsors as appropriate.

Q&A with John Resta, Deputy to the Commander, U.S. Army Public Health Command



John J. Resta is dual-hatted as the Deputy to the Commander for Public Health and Director, Army Institute of Public Health, at Aberdeen Proving Ground. His responsibilities extend from the USAPHC Headquarters through the Institute to Army Public Health Regions, Districts, Branches and Sections around the world, focused on ensuring mission priorities are funded and executed, providing reach-back scientific and technical support, and ensuring standardization and quality of services.

He has served at the USAPHC and its predecessor organizations for 32 years, in positions of increasing responsibility. He was named to his current positions in October 2010.

He holds a Bachelor of Science degree in Environmental Engineering from the Pennsylvania State University, a Master of Civil Engineering degree from the University of Delaware, and a Master of Science degree in National Resource Strategy from the National Defense University. He is a registered Professional Engineer in Maryland.

A resident of Bel Air, Mr. Resta is active in numerous community service efforts in the Bel Air Receptions Committee's youth athletics program, serving as a volunteer coach, program chairperson and member of the board of directors. He has been a Boy Scouts of America den leader, assistant scoutmaster and leader of high-adventure trips to the Florida Keys, southwest Virginia, and Philmont, New Mexico. He is USAPHC's Science, Technology, Engineering and Mathematics champion, leading the organization's partnership with APG commands, regional businesses and schools to develop student interest and knowledge in STEM disciplines.

His awards include the Meritorious Civilian Service Award, Commander's

Award for Civilian Service, Army Achievement Medal, Order of Military Medical Merit, National Society of Professional Engineers' Federal Engineer of the Year—U.S. Army Medical Command award, and the U.S. Army Center for Health Promotion and Preventive Medicine's Joseph Lovell Award for Professional Excellence.

What public health issue concerns you the most?

It's an exciting time for Army public health, in that Army Medicine is moving from a healthcare system focused on clinical and rehabilitative care to a "system for health." This means that public health services and disciplines that contribute to building and sustaining good health are in demand and of interest at the Army's highest levels. It also means that we at Public Health Command must find innovative and cost-effective ways to address issues such as obesity, inactivity, and tobacco and alcohol use—those lifestyle choices that lead to chronic disease and disability. If we can do that, we can help improve individual quality of life and unit readiness while reducing medical costs. At the same time, though, we have to sustain other key public health missions—surveillance, analysis, mitigation and prevention of disease, behavioral and social health issues, and injuries. Also we conduct environmental monitoring for conditions that could impact health, and mitigating or preventing those. Food safety, health hazard assessment, industrial hygiene, vision and hearing conservation, and other preventive missions related to human, animal and environmental health are all part of our portfolio.

How is PHC addressing lifestyle behaviors?

We have numerous programs that address lifestyle behaviors that lead to health. We are working to standardize our programs and extend their

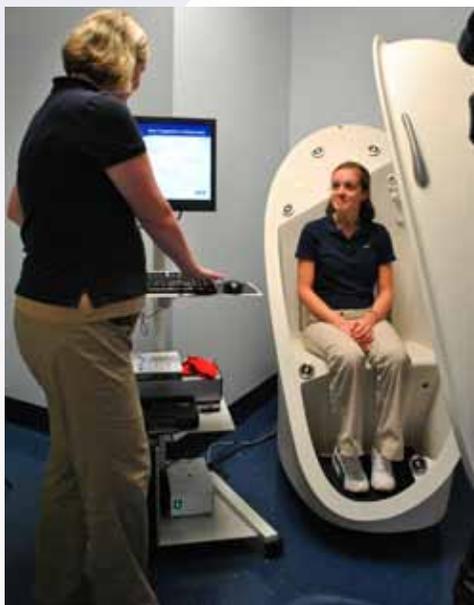
availability. Many of them are delivered to Army beneficiaries and civilians through Army Wellness Centers like the one we are establishing here at APG. Increasingly here in the U.S. and in Europe, our installation Health Promotion Officers ensure service delivery and coordination among garrison, medical and mission programs and assets. This synchronization of health promotion, risk reduction, and suicide prevention programs ensures holistic treatment in garrison. We're adding brigade health promotion team coordination, so that units can provide similar services when deployed and can link back to their home stations.

"The 'one health' approach that we take to our mission means that people don't exist in isolation, and that we understand them to be part of a larger 'system of systems' that also includes their workplaces and their communities' environment (air, water, soil), along with their animals."

What does PHC need in order to meet the public health needs of the future?

I'm sure anyone would respond to this question first by saying "resources," and I'm no exception. Besides that, we're working to build partnerships across the Army, with the other services, government organizations, professional groups and academia. The public health issues we face aren't just Army or military issues; the U.S. population and its public health providers also struggle with lifestyle issues, chronic disease and disability, and increasingly constrained resources.

Profile: U.S. Army Public Health Command



Sarah Fewell and Sarah Guin, health educators, explain how the Bod Pod® is used to determine body density and the ratio of lean muscle mass to fat mass. The accuracy of the device is within ± 1 percent of hydrostatic weighing (the gold standard for body composition analysis). Instead of dipping people repeatedly in a tank of water, they sit in a sealed chamber where the pressure-volume is measured. The assessment takes five minutes to complete versus more than 45 minutes for hydrostatic weighing. (Photo by Jane Gervasoni, USAPHC).

Public health is the science and art of preventing disease, prolonging life, and promoting physical health through organized, population-based efforts. The U.S. Army Public Health Command has broadened that definition in its mission statement, “to promote health and prevent disease, injury and disability in Soldiers and retirees, their family members, and Army civilians, and to assure effective execution of full-spectrum veterinary services for the Army and Department of Defense.”

In executing its public health mission, USAPHC provides consulting services to senior military leaders, commanders both deployed and in garrison, and military medical and health professionals.

Structure

Headquartered at Aberdeen Proving Ground, USAPHC has six subordinate elements, the Army Institute of Public Health (AIPH) and five Public Health Command Regions.

The AIPH, also located at Aberdeen Proving Ground, standardizes and promulgates practices and procedures used throughout the USAPHC, administers and funds public health

mission execution, provides one-of-a-kind and reach-back technical capabilities, and oversees quality assurance.

The five Public Health Command Regions execute public health missions. They are supported by 14 Public Health Command Districts that will bring public health services even closer to the Army installations and deployed units who are their customers.

Organization

USAPHC is a subordinate command of U.S. Army Medical Command, but it is unique among MEDCOM organizations in these ways:

Its “patients” are populations, that is groups of people—military units, their families or Army civilian employees, for example—rather than individuals.

It emphasizes prevention of disease, injury and disability, rather than healing those who have already experienced these conditions. It is proactive, optimizing health by educating members of the Army population about healthy behaviors, empowering them to build and sustain their own good health.

Influence

USAPHC’s public health responsibilities are extremely far-reaching. They extend beyond humans to include animals and the environment, where some of the causes of disease, injury and disability in people originate. Avian flu, unsafe drinking water, food that has spoiled or has not been safely processed or prepared, ineffective sanitation measures in the aftermath of natural disaster, exposure to industrial chemicals, mold in the workplace—these are just a few examples of the health threats stemming from animals or the environment that Army public health professionals address.

Through its unique mission and capabilities, USAPHC is helping Army Medicine transform to a prevention-focused system for health. Preventing



Lt. Col. Shannon Wallace, a USAPHC veterinary pathologist, identifies disease specimens. (Ben Bunger, USAPHC Visual Information Division)



Spc. David Castillo, a preventive medicine specialist, prepares a deployment environmental surveillance backpack for use. (USAPHC photo)

conditions that threaten Soldier, civilian, family member and animal health is operationally sound, cost effective and better for individual well-being. Though care of the ill and injured will always be necessary, the demands for such care will be reduced through prevention and health promotion. Army Medicine is on the pathway to realizing this proactive, preventive vision.

How USAPHC executes its public health mission

Prevention

- Manages the system that Army medical treatment facilities use to report diseases diagnosed in medical visits. Identifies emerging epidemics, spikes in medical conditions, and longer-term disease trends. This helps medical providers stop the spread of disease, prioritize resources, and identify community-specific health issues.
- Conducts surveillance of behavioral health issues such as suicide, post-traumatic stress disorder, depression and violent behaviors, and correlates factors that are contributors. Results are reported to Army leaders who determine how contributors to negative behaviors and suicide are addressed.
- Identifies the causes of injuries

through multiple studies that contribute to new physical fitness training programs that optimize fitness while minimizing injuries and resultant lost-duty days.

- Supports Army acquisition by evaluating potential health effects from operating military equipment and weapons, clothing and training devices. Its experts worked on the Stryker vehicles, Terminal High Altitude Area Defense Missile system, and enhanced combat helmet.

Environmental monitoring

- Monitors food retail, production and Soldier eating establishments on posts, installation water supplies, and food and bottled water procurement sources off-installation and overseas. Conducts food and water vulnerability assessments to identify potential hazards before they pose a risk.
- Assesses and documents the nature of risks to Soldiers engaged in operations in Central Command posed by dust, fires and industry.
- In addition to sampling, assessment, reporting, and archiving of air, water and soil in garrison and deployed environments, USAPHC develops chemical and biological military exposure guidelines to help identify, evaluate, and manage these occupational and environmental risks.
- Assists installations in identifying, assessing and controlling occupational hazards in installation workplaces and operational settings.

Health promotion & wellness

- Assists installations in establishing Community Health Promotion Councils to enhance the health of Soldiers and retirees, their families and Army civilians.
- Sets up and/or standardizes installation Army Wellness Centers, which offer fitness and wellness testing, nutrition counseling, stress management, tobacco education and other services depending on the community in which they are located.

- Develops program and products for healthcare providers and health promotion personnel in the areas of suicide prevention, sexually transmitted disease, post-partum fitness and parenting, nutrition, tobacco, obesity and female Soldier health.

Visit the USAPHC Web site at <http://phc.amedd.army.mil> for preventive health and wellness information for Soldiers and retirees, families and Army civilians.



USAPHC veterinary food inspectors perform receipt inspection of products delivered to military facilities to ensure safety and quality. (USAPHC photo)



USAPHC preventive medicine Soldiers monitoring insect vectors. (USAPHC photo)

Edgewood Infrastructure: The Good, The Bad,

Several years ago, an APG leader gave a briefing on Edgewood facilities to Congressional staffers entitled, “The Good, The Bad, and The Ugly.” This title, referencing the 1966 spaghetti western film of the same name, summed up the challenge of managing Edgewood’s infrastructure, which consists of over 200 structures ranging from sparkling state-of-the-art research facilities to crumbling WWI-era buildings.

Edgewood is home to advanced research, development, and test laboratories outfitted with the latest safety and environmental controls (The Good). Edgewood is also home to buildings that have been in continuous use since as far back as WWI and can no longer support the requirements of modern instrumentation, laboratory equipment, and ventilation systems and need to be razed (The Bad), or need significant renovation (The Ugly).

Edgewood’s capabilities and facilities are in more demand than ever. The Army has an obligation to keep these capabilities robust, because they are tied to our national security, even in an increasingly austere fiscal environment. APG’s approach to meeting this challenge is three-pronged. First, replace outdated buildings that no longer provide required capabilities. Second, demolish structures that are beyond salvage or are contaminated. And third, modernize and renovate existing structures to support new missions. This article discusses APG’s most recent initiatives in these three areas.

New Construction

In recent years, Edgewood has seen several new facilities open, thanks to the support of Maryland legislators and Army officials. The Advanced Chemistry Laboratory was opened in 2006, and provides new capabilities in chemical research. An addition is currently under construction to provide lab support space for researchers utilizing the labs in the ACL. These researchers are currently utilizing lab support space in E3300 and other ECBC buildings.

Also recently constructed was the Sample Receipt Facility,



The Sample Receipt Facility at Edgewood, which was a collaborative project between DoD, DHS, and FBI.



A rendering of the new MRICD laboratory complex at Edgewood.

which is dedicated to the receipt, triage, sampling, and screening of “unknowns” coming from military theaters of operation, intelligence organizations, and law enforcement agencies.

The US Army Medical Research Institute for Chemical Defense (MRICD) is wrapping up construction of its \$430 million laboratory complex, at which scientists will conduct basic and applied research in the pharmacology, physiology, toxicology, pathology and biochemistry of chemical agents and medical countermeasures. The laboratory complex will consolidate MRICD’s civilian, military, and contract employees, who are currently spread among 15 buildings. The current primary facility, the General John R. Wood Building, which was built in 1968 for \$4.1 million, can no longer support the additional requirements of modern instrumentation and laboratory equipment. At the completion of the new MRICD laboratory complex building the aforementioned 15 MRICD facilities will be deemed excess APG real property and demolished accordingly.

The Maryland Army National Guard’s Aviation Support Facility recently completed a \$22.6 million expansion, adding 90,000 square feet of new workspace and renovating 50,000 existing square feet of space. The new addition contains administrative and storage space, a maintenance storage hanger expansion, and supporting facility infrastructure. The renovation involves converting supply space to equipment shop, classroom, and an emergency operations center.

Work on the new \$21 million Army Reserve Center at Edgewood is underway. This facility will replace two buildings currently assigned to the 203d MI BN. The new facility has the capacity to accommodate 500 Army Reservists.

A replacement laboratory for the US Army Public Health Command’s Army Institute of Public Health is currently being planned for the Edgewood Area of Aberdeen Proving

and The Ugly

Ground. The facility design is currently 60% complete and is estimated to cost \$210 million. Plans are for a 275,000 square-foot (SF), multi-story public health laboratory with analytical chemistry, radiological, molecular biology and toxicological laboratories; equipment calibration and evaluation facilities for industrial hygiene, laser, microwave and environmental sampling equipment; and offices for the laboratory personnel. Construction is slated to begin in the Spring of 2014 with beneficial occupancy late 2017 and full occupancy by the spring of 2018. When complete, the laboratory will consolidate 260 personnel as well as analytical, calibration and evaluation facilities currently located in 11 different buildings on APG, some dating back to the WW I era.



A demolition project at Edgewood. (Photo courtesy APG Public Affairs)

Demolition

Many of the buildings on post have been abandoned due to electrical, mechanical, structural, and contamination issues, where the cost of renovation is prohibitive. Some of these buildings are not easily demolished. Structures that housed chemical research or test activities have the potential to be contaminated and must be surveyed, and possibly decontaminated, prior to demolition. The process alone is protracted and costly. Over the past few years, APG has demolished part of its inventory of abandoned and unused facilities. So far, 45 buildings have been demolished, for a total of 187,450 square feet. APG has also identified an additional 27 buildings in Edgewood for demolition, totaling 222,743 square feet. This is planned for FY13 but is not yet funded.

The Edgewood Area of APG is a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site, which is reflected on the Environmental Protection Agency's (EPA) National Priorities List. As a consequence of APG's past and current mission conducting research, development, test and evaluation of chemical, biological, and radiological warfare material, the disposal of buildings and structures is costly and time consuming. Industry costs for the northeast region for building demolition and abatement typically range from \$10-15 per square foot. In contrast, the demolition of a contaminated building at APG that historically was utilized for chemical warfare material missions costs between \$250-\$300 per square foot.

Renovation

Many of the facilities at Edgewood are structurally sound and can be renovated to support a new mission. The old theater at Edgewood is being renovated into the Executive Conference Center. This renovation will provide a center for professional development, community and educational

outreach, high-level in-house conferences and hosting visits by congressional and community leaders and others to promote and educate in the area of Chemical and Biological Defense.

An addition to the Fire Station at Edgewood is underway, making room for all apparatus to be placed inside a conditioned building, and providing new office space for the battalion chief and his staff. Similarly, the Police Station is being updated. The police will move from a deteriorating WWI structure, portions of which are condemned, and with poor administrative and locker space, radio room, and confinement capability. It delivers those amenities in a building that is modern and structurally sound.

The Edgewood Area Wastewater Treatment Plant will be upgraded to reduce nutrients such as nitrogen and phosphorus from being discharged into the Chesapeake Bay. This will include new influent screening, secondary biological treatment, denitrification filters, ultraviolet disinfection, shellfish protection tanks, and state of the art controls. This is Army funded and does not use Maryland "Flush Tax" dollars. This is in keeping with the Memorandum of Understanding signed in 2006 between the Department of Defense and the State of Maryland.

With the pending closure of Harford's Waste to Energy Facility, APG will be required to produce and distribute its own steam throughout the Edgewood Area. The Main Boiler Plant and two satellite plants are receiving upgraded boilers to meet the steam demand, as well as repair or replace distribution and condensate return as necessary.

The Garrison will continue beautification efforts in Edgewood as funds are available, to include painting buildings, planting intersections, and updating the clubhouse at Exton Golf Course.



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Tamera Rush, middle, receives a plaque recognizing STG Inc.'s sponsorship of the Army Alliance. Beetle Smith, left, serves as the Army Alliance's sponsorship chair, and Barney Michel, right, serves as president.

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"The Army Alliance is the perfect organization to bridge together community resources, private industry and the research being done at Aberdeen Proving Ground. It has become an important partnership that will create jobs and prosperity, serving Harford County's economy well into the future."

U.S. Congressman C.A. Dutch Ruppertsberger

During this time of defense budget cuts, advocacy of the Northeastern Maryland region at the state and federal levels is more important than ever. This is the work of the Army Alliance: to ensure and enhance the vitality of Aberdeen Proving Ground and the surrounding defense sector. The Army Alliance operates as a 501 C(4) organization. In addition to funds from industry sponsors, its work is underwritten in part by grants from the State of Maryland; Harford, Cecil, and Baltimore Counties, and local municipalities. Your sponsorship enables the Army Alliance to work on

behalf of Aberdeen Proving Ground, which strengthens the region as a whole. To become a sponsor, fill out the form on this page and mail to the Army Alliance offices. Or sign up as a sponsor on our Web site: www.armyalliance.org.

Sponsors receive quarterly newsletters and updates on issues and events of importance to the defense community. Sponsors also receive tickets, based on level of sponsorship, to Army Alliance meetings and events.

Thank you for your support of the Army Alliance and your investment in the region's economic prosperity.

The Army Alliance publishes a newsletter quarterly -- Spring, Summer, Fall, and Winter. Deadlines for content for each issue are: April 1, June 1, September 1, and November 1. Please contact Joan Michel at joan.michel@profilellc.com for additional information.