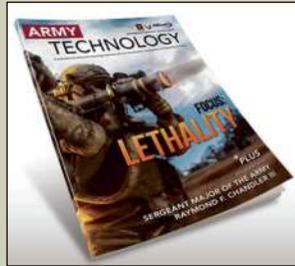


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September 19, 2014



Photo by Todd Mozes



Photos by Todd Mozes

Lt. Gen. Michael E. Williamson toured Picatinny Arsenal facilities Sept. 16, including the gun range where he fired several weapons. Williamson is the Principal Military Deputy to the Assistant Secretary of the Army for Acquisition, Logistics and Technology. In top photo, the general is briefed by Col. Scott Armstrong, Project Manager Soldier Weapons. To the general's right is Jim Shields, acting Program Executive Officer for Ammunition. In bottom photo, on the left, is Chris Grassano, acting Deputy Program Executive Officer for Ammunition.

First Picatinny female sergeant major thanks personnel in final goodbye

BY ERIC KOWAL
Picatinny Public Affairs

Command Sgt. Maj. Hu'Dene Wright assumed the role of U.S. Army Garrison, Picatinny Arsenal, Command Sergeant Major, during a Sept. 8 Change of Responsibility Ceremony.

The outgoing Command Sergeant Major, Command Sgt. Maj. Rosalba Dumont-Carrion, made Picatinny Arsenal history when she became the first female Soldier to hold the position.

Dumont-Carrion arrived to the installation in 2012 just weeks after giving birth to twins, Maximus and Nyssa. Her husband, John Stahlschmidt, took a position with the Army Community Services Office on post as the Sexual Harassment, Assault, Response and Prevention (SHARP) Program Coordinator.

During the majority of Dumont-Carrion's

tenure here she was paired up alongside former installation Garrison Commander, Lt. Col. Jason Mackay.

The team faced challenging obstacles, such as the devastation caused by Hurricane Sandy, two government furloughs and a shutdown, and the death of a vital member of the garrison staff, Julie Bobitka.

When Mackay departed for a new assignment, he was replaced by the current Garrison Commander, Lt. Col. Ingrid Parker. Again, Dumont-Carrion made history, as the pairing with Parker mark the first time there was an all-female command team at Picatinny.

During the Change of Responsibility Ceremony, Dumont-Carrion referred to Parker as her "battle buddy."

SEE DUMMONT-CARRION on Page 4

Top Army acquisition officer visits Picatinny

BY ED LOPEZ, EDITOR

Although operating under budget constraints can be challenging, restrictive spending can also spur innovation and new ideas to solve problems, a top Army acquisition officer said during a Sept. 16 visit to Picatinny Arsenal.

Lt. Gen. Michael E. Williamson, the Principal Military Deputy to the Assistant Secretary of the Army for Acquisition, Logistics and Technology, said the Army will continue to look for ways to be efficient and maximize taxpayer dollars.

"If we start looking at some of the funding constraints, I think it crates an opportunity for innovation," the general said.

"And so whereas we might of not looked at some other ways to do business, I think this kind of pressure allows us to explore a little further out ways to be innovative and find new solutions to old problems."

Williamson met with senior leaders and received briefings on a variety of programs as part of his visit to Picatinny, which is the Joint Center of Excellence for Armaments and Munitions.

During an interview, Williamson praised the close working relationship among the various program executive offices and the Armament Research, Development and Engineering Center.

"It absolutely amazes me how well they work together," the general said.

"There is a lot of real close cooperation. It's probably some of the best that I've seen."

Assessing the challenges during a period of pressure to hold down federal spending, Williamson said modernization must continue while still being able to bring capabilities to the Soldier.

"As we're coming out of 13 years of war, there is this belief that there a lot of things that we cannot do," he said.

"Whether that's affected by force structure, whether that's affected by cost or funds available, or a combination of the two, what I would

SEE WILLIAMSON on Page 10



Photo by Erin Usawicz

At times emotional, Command Sgt. Maj. Rosalba Dumont-Carrion says goodbye to Picatinny during a Change of Responsibility Ceremony.

9/11 anniversary evokes memories of friends killed at World Trade Center

BY FRANK MISURELLI

Picatinny Public Affairs

On the morning of 9/11, I was driving to Picatinny Arsenal, just like thousands of others listening to the car radio on WCBS news radio, when at 8:45 a.m. American Airlines Flight 11 out of Boston, Massachusetts, crashed into the north tower of the World Trade Center.

As an aviator I knew it wasn't uncommon for planes to smash into buildings. When the second airliner, United Airlines flight 175 from Boston crashed into the south tower of the World Trade Center at 9:03 a.m., I knew as the rest of the world would eventually learn that these were acts of terrorism.

Like millions, we prayed for survivors from both the World Trade Towers and the Pentagon. As months passed, the names of the 2,753 killed at the World Trade building would slowly and painfully emerge. Timothy F. O'Sullivan, 68, and Thomas Patrick Farrelly, 54, would be part of this group.

Tim was the first person who gave me a job as a seasonal food vendor at the Bronx Zoo from 1969 to 1974 during high school and college. He was always watching over me because I ran track during high school and had to take off from work to compete in track meets in New York City on weekends.

When I decided to enter Manhattan College in the Bronx and join the U.S. Air Force Reserve Officer Training program or ROTC, Tim became my biggest supporter, especially when I had to perform summer training with the U.S. Air Force.

He confided in me that prior to becoming the personnel manager at the Wildlife Conservation Society; he had graduated from Manhattan College in 1964 and later became the director of personnel. He loved military history, as I found out later and realized why he supported my military career so strongly.

When I graduated and was commissioned an U.S. Air Force second lieutenant, I never forgot this incredibly tall 6-foot-7 Irishman with an unmistakable New York City Irish accent. His signature sentence was, "I always take care of my Manhattan College men."

Years later after I left active duty, I applied to become the public relations director of the Bronx Zoo and he supported me but I didn't get the job. Years passed and

COMMENTARY

my father, a retired machinist, wanted to work part time at the zoo. Tim kindly told me that Dad was too old.

Retirement from the Wildlife Conservation Society took him west to the Poconos in Pennsylvania. He worked as a consultant, one day every six or eight weeks, to the World Trade Center.

Around 8:30 a.m. on the day of the 9/11 attacks, Tim phoned his wife, Geraldine, earlier that morning to say that he arrived at the World Trade Center. He phoned her again shortly before 9:00 a.m., saying that an explosion occurred in the upper stories of the north tower and not to worry. Soon after, he and his colleagues began their descent from the 39th floor via the stairwells, the only available exit.

Tim previously had a major heart bypass operation and now wore a pacemaker. As he reached the 6th floor, witnesses said, his pacemaker came on. Breathing became difficult. He had to rest.

New York City firemen ascending the stairwell administered him oxygen. Tim urged his colleagues to go on, as he was in good hands and would see them all later. This was the last known location of Tim—on the 6th floor of the World Trade north tower, receiving oxygen.

Many speculate that eventually Tim made it to the ground level lobby and was being triaged in either Five Acres Plaza or on the street, and that he was subsequently killed by falling debris from the collapsing towers.

On the evening of Sept. 12, 2001, his brother, Michael, received a call from his nephew that Tim was among the list of those missing. On Sept. 14, Tim's oldest daughter, Denise, was at the 69th Regiment Armory in New York City and saw her father's name on a list of the deceased. His body was among the fewer than 300 that were recovered from the terrorist attack. Tim was identified through the driver's license in his wallet.

Tim's death certificate would read: "Cause of Death—a massive blunt trauma to the head." Tim was buried Friday, Sept. 21. I would learn of his death in the



Wreath placed at Picatinny Arsenal to commemorate the 13th anniversary of 9/11 attacks on the nation.

Manhattan College alumni newsletter.

Thomas P. Farrelly was my math and track coach from 1970 to 1972 at St. Helena's High School located in Bronx, New York. To teach me math you had to have patience—lots of patience. He loved teaching math, but especially loved coaching track.

He consistently stressed to me to do my personal best or "P.B." I remember sessions after sessions of math tutoring, which I needed badly, especially for "jocks" just to graduate. I could not thank him enough. "Don't thank me," he responded, "You did it on your own." The same applied for track—always try to push yourself to do your "P.B."

I read a feature about Tom in Newsday and found out that he met his wife while teaching. Tom proposed to his future wife, Virginia, on top of the World Trade Center in April 1978. The family grew to four children. Tom left teaching to earn more money as a computer programmer at Accenture and was working as a consultant for Marsh and McLennan. His body was never recovered.

I learned of Tom's fate at my 40th St Helena's High School reunion in the spring of 2012.

As we move past the 13th year of remembering 9/11, I don't know how many others lost two friends on that day.

I hate to think that we will forget their faces and what they gave back to the community. I prefer to think that Americans will always remember these great Americans.

THE PICATINNY VOICE



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<https://www.pica.army.mil/eVoice>

New PEO Ammo leader embraces inter-service cooperation, strong relationships

BY TIMOTHY RIDER

Picatinny Public Affairs

"Fantastic job!" Jim Shields exclaimed in one of his first public comments as acting Program Executive Officer for Ammunition. "Ooh-rah!"

By exclaiming "ooh-rah," Shields, an Army civilian member of the Senior Executive Service, sent his thanks to the Marines for their participation in the Change of Management ceremony held July 17.

The Marines, members of Company G, 2nd Battalion, 25th Marine Corp Regiment, used 105mm cannons to fire off the 17-gun salute for his predecessor, the retiring Brig. Gen. John J. McGuinness.

Having served as program manager for the Joint Lightweight 155mm Howitzer Program, a U.S. Marine Corps led program, Shields understands how Marines shout an affirmation—it's pronounced "ooh-rah" in the Marines and "hoo-ahh" in the Army.

Shields and his Army teammates worked cooperatively and successfully with Marines in the JLW 155mm program to deliver more than a thousand howitzers to U.S. Soldiers and Marines who benefitted from the cannon's light weight, improved transportability, and increased mobility in combat operations, as well as its ability to fire the latest generation of precision munitions.

"I think to this day is the best example of a successful joint program," said Shields.

He credited that success largely to how the two services worked together and forged agreements on requirements that resulted in a Joint Operational Requirements Document that both services were happy with.

"Even though we had two separate users, the two services agreed on 99 percent of the requirements, which made the program executable" Shields said.

LEADING PEO AMMUNITION

Shields's experience in promoting joint cooperation will come in handy in his new position.

PEO Ammunition is the Single Manager for Conventional Ammunition (SMCA), a designation it received from the Defense Department that integrates the requirements of all services to buy ammunition under more economical terms that benefit the military departments and the taxpayer, as well as help maintain and support the vitality of the ammunition industrial base.

As with the Lightweight 155mm Howitzer, the PEOs success in its SMCA role will also depend on the ability to build agreements among the services related to requirements and specifications.

With his engineering and program management background working on both ammunition and weapons systems, Shields's experience in a joint environment, will contribute to how he leads PEO Ammunition through the organization's coming challenges.

His experience as an engineer includes serving the Army's Armament Research, Development and Engineering Center, where he work on the M712 Copperhead, the first gun that launched guided projectiles and was the precursor to Excalibur, the Accelerated Precision Mortar Initiative and the Precision Guidance Kit.

Shields also spent eight years with Crusader—an artillery modernization effort—as an engineer specializing in armaments and re-supply. He would later become a lead armaments engineer and, ultimately, the Crusader Systems Engineering and Integration Division Chief.

While working with Crusader, Shields became immersed in the DoD 5000, which are regulations that guide the acquisition of weapon systems in the Defense Department.

The DoD 5000 influences how research engineering

"Don't be reluctant or hesitant to try new things outside of your comfort zone that might seem daunting or scary. See these as an opportunity to step out of your area of comfort so that you grow professionally and as a person."

and project management are organized to develop the most cost effective Warfighter capabilities.

His training and experience with the acquisition process under Crusader prepared him for the project management of weapons systems that would lie ahead.

He became Deputy PM for the lightweight 155mm program serving under USMC Col. Steve Ward and USMC Col. John Garner while he was part of the Army's PEO Ground Combat Systems, working for Kevin Fahey.

"Being surrounded by those great leaders helped me grow as a deputy PM and opened up the door for me to become the Joint Program Manager and eventually the DPEO Ammunition," Shields said.

Shields became deputy program executive officer in November of 2009.

"There's no better preparation for being a PEO than being a deputy PEO," said Shields. Not only did he become familiar with the product portfolio but also, "I learned the business of being a PEO from two G-Os," Shields said, using the acronym for general officers.

LEARNING FROM HIS PREDECESSORS

When he became deputy PEO, he served under Brig. Gen. Jonathan Maddux, who, he said, "had a great deal of focus and attention on delivering critically needed capability to the Warfighter.

"He was a great motivator, driven by Joint Urgent Operational Need Statements and Operational Need Statements to field things like SPARK Rollers, Rhino, Jackal, APMI which delivered counter IED capabilities and the first precision mortar capability to the infantry," Shields said.

Of his predecessor, McGuinness, Shields said: "He did a great job as both the PEO and the installation's commanding general.

"He came on board at a difficult time, just before Hurricane Sandy hit and during an era of pay freeze, furloughs and government shutdown when civilian morale was probably at an all-time low.

"In spite of all those challenges he inspired everyone to keep working to the best of their abilities to make sure our Warfighter and coalition partners had everything they needed in the fight.

"McGuinness never missed an opportunity to boast about the accomplishments of Team Picatinny and the importance of the work we do in support of the Warfighter."

Shields said he admired how McGuinness operated around people and how he engaged them. He also noted that McGuinness had a knack for relationships, "establishing them, nurturing them and always checking back to see how things are."

In his new position, Shields reflected on the changes that have taken place within and outside his organization since 2009.

PEO CHANGES IN SPENDING

The organization's total obligation authority—roughly what it spends—has dropped by about half, much of it a result of a sizable portion of the PEO Ammunition portfolio being divested and the delivery of non-program

Photo by Todd Mozes



Jim Shields, the acting Program Executive Officer for Ammunition, brings a wide range of experience to his new job.

of record systems.

The organization itself, however, will be able to adapt to the changes in spending.

The Army's science and technology funding is remaining fairly stable, which means that in five to 10 years much of that R&D spending should be delivering weapon and ammo technologies for transition into acquisition programs that will fall under PEO Ammo.

"As far as ammo goes, if you're not shooting it in combat, you're probably shooting it in training," said Shields. "So there is a continuous need for products that come out of PEO Ammo."

PEO Ammunition must continue to reach out to our customers in our role as the Single Manager for Conventional Ammunition, said Shields.

"We have to modernize our ammunition plants to make sure they remain relevant for our future production needs and we need to become more effective in demilitarizing our ammunition.

"We spend about \$200 million per year modernizing these plants and about the same amount executing demilitarization for the joint services."

"We've taken a more holistic joint services perspective," Shields said.

The U.S. Army PEO Ammunition organization has grown to include an Air Force colonel project director, Air Force and USMC lieutenant colonel liaison officers, a Navy captain and a USMC civilian project manager. PEO Ammunition also recently welcomed an Australian lieutenant colonel liaison officer.

PEO AMMO PRIORITIES

At Picatinny Arsenal, Shields watched the Navy presence grow since Picatinny was designated a Joint Center of Excellence for Armaments and Munitions.

The priorities for PEO Ammunition remain as they were, and are listed below with comments from Shields.

1. Supporting the war effort. "You can't rest because

See SHIELDS on Page 4

Shields: New PEO Ammo Leader

Continued from Page 3

conflict is winding down. Our adversaries aren't resting."

2. **Taking care of and growing teams.** Nurturing relationships is important, he said. "Always treat people with respect," Shields advised. "Getting excited doesn't add any value."

3. **Delivering improved capabilities.** "The focus doesn't always have to remain on creating new systems. We look to make improved capabilities with each new contract." He cited as an example the work PEO Ammunition did to deliver the M855A1 Enhanced Performance Round. "We didn't just keep buying the same round. We are now buying a round that is far more capable than its predecessor."

4. **Efficiency in operations.** "We're not in an environment where we can do things that aren't absolutely necessary." "We've become more streamlined and have become more conscious of lowering overall costs." Shields also wants to see a continued emphasis on the Army's efficiency programs. "We have a proven track record with value engineering and a lot of experience in Lean Six Sigma."

5. **Improve the industrial base.** On relations with industry: "We have to be careful that guys don't leave the industry. We have to be on the lookout for single points of failure so that we are always in a position to ramp up with industry to support a war effort."

On the organic industrial base (Army owned and contractor operated facilities): Shields said they should be looked at critically. "We have to take a critical view of our organic infrastructure and what must be modernized."

"We will have to optimize our organic base to reduce costs and that may include changing how we operate them."

Having experienced a decade of conflict, the PEO Ammunition workforce is currently very sharp, and Shields wants the workforce capabilities to remain at that high level.

"We've got a high-performing workforce. We are well-organized, trained and skilled in the performance of our tasks."

Shields reflected on how employees can succeed and how he ended up in his position. "I was never one to look for promotion, but I was always pushed to take on greater responsibility. I never said no."

Based on his experience, he offered this advice to new engineers: "Don't be reluctant or hesitant to try new things outside of your comfort zone that might seem daunting or scary. See these as an opportunity to step out of your area of comfort so that you grow professionally and as a person."

Also, "if it don't make sense, question it," Shields said. "This isn't an environment where we can continue to do things that aren't really necessary."

"It's important to get along in your teams, but for the sake of the Warfighter, never lose sight of the importance of getting it right," Shields added.

Besides, speaking up won't always result in conflict. "You might find other people are thinking the same thing and support you."



Photo by Todd Mozes

Dale A. Ormond, the outgoing director of the U.S. Army's Research, Development and Engineering Command, receives some parting gifts at the end of his final town hall presentation Aug. 4 at Picatinny Arsenal. Presenting the gifts is Barbara Machak, the acting director of the Armament Research, Development and Engineering Center, which reports to Ormond's engineering command. Maj. Gen. John F. Wharton will become RDECOM's commanding general during an assumption of command ceremony Sept. 22 at Aberdeen Proving Ground, Maryland.

DUMMONT-CARRION

Continued from Page 1

Dumont-Carrion has been known as "Sergeant Major Zumba," primarily for her role in bringing a Zumba fitness class to the installation, capturing the attention of many military spouses and Arsenal employees.

Col. Scott Turner, Senior Military Commander (Acting) said, "I would be remiss if I didn't mention one personal impact you have made on my wife, as well as many other military and civilians that have had what it takes to get on board with your Zumba classes."

"As you know... I had what it took—for one class," Turner joked.

"Thank you to Command Sergeant Major Dumont's mother and father for raising your daughter the way you did," Parker told Dumont-Carrion's parents, who were in attendance.

"Few people are born leaders, and fewer are leaders of non-

commissioned officers. Your daughter was clearly born to be a leader and outstanding Command Sergeant Major."

When Dumont-Carrion took the stage, emotions ran high. With tears in her eyes, the outgoing Command Sergeant Major gave words of advice and encouragement and said that her door was always open

She reminded the audience to take care of one another and check up on one another as "one life lost to suicide is one too many." Dumont-Carrion wept as she thanked Julie Bobitka, a garrison administrative assistant who passed away last year.

The ceremony took on a brighter note as Dumont-Carrion described how just moments after delivering her twins just weeks, before arriving at Picatinny, she received a called from the U.S. Army Medical Command Sergeant Major asking if she was taking the "assignment or not."

Her reply was, "What assignment?"

She was told "To Picatinny Arsenal."

"To Pica-Who, Pica-Chu, Pica What?" she recalled, drawing laughter from the audience.

Her parents moved to New Jersey for nine months to help with the move and adjustment to a new duty station and take care of the infants, something she says she will never forget and will always be thankful.

"In 24 years my parents have been to every promotion I have had, everywhere in the Army, no matter where I was, so for that



and everything, thank you mom and dad."

Dumont-Carrion added, "I will not name names, but I will name positions," as she thanked all the directors and directorates under her command who helped her achieve a successful tour through thick and thin.

As she gave her final farewell, received a standing ovation and returned to her seat, the incoming Command Sergeant Major was called to the podium.

Wright, a Savannah, Georgia, native, entered the Army in 1985 and served as a finance specialist. She comes to Picatinny from the 501st Special Troops Battalion out of Indianapolis, Indiana, where she was the Battalion Command Sergeant Major.

Wright thanked her family and friends and embraced the new position, vowing to uphold the legacy that Dumont-Carrion leaves behind.

Dumont-Carrion will serve as the Garrison Command Sergeant Major at Camp Zama, Japan.

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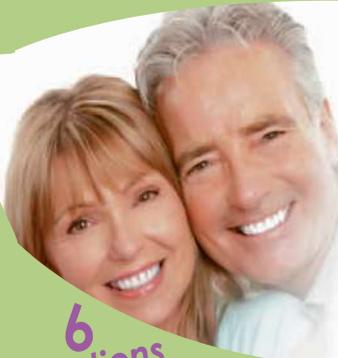
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Armament University building dedicated to fallen Army Soldier

BY FRANK MISURELLI
Picatinny Public Affairs

A dedication ceremony of Picatinny Arsenal's Armament University was held Sept. 16 in honor of fallen U.S. Army Capt. Sean P. Grimes, who was killed in Iraq on March 4, 2005.

"This building's legacy is Capt. Sean P. Grimes, who gave his full measure on the battlefield in Iraq," said Barbara Machak, Acting Director of the Armament Research, Development and Engineering Center.

"I believe naming this building after Sean is a tribute to amazing young Soldier who was dedicated not only to his country, his army, and his unit, but also his friends and family," said Machak.

Grimes died when his vehicle was hit by an improvised explosive device while on combat patrol. Grimes became the first military physician assistant in the U.S. Army to be killed in action. He was 31.

EDUCATING FUTURE GENERATIONS

With nearly 25,000 square feet, Capt. Sean P. Grimes Hall offers an optimal on site environment to accomplish its two primary missions: maintain Picatinny's leadership in workforce development, and implement a new graduate institute that will offer accredited advanced degrees in armament engineering.

"When I think about Grimes Hall," said Machak, "a Wayne Gretzky quote comes to mind: He stated, 'I skate to where the puck is going to be not where



Photo by Todd Mozes

The Capt. Sean P. Grimes Hall was dedicated Sept. 16 at Picatinny Arsenal. Unveiling the building plaque are, from left, Barbara J. Machak, Acting Director of the Armament Research, Development and Engineering Center, Mary T. Wright, Scott Grimes, Don Grimes, Mary Grimes and Joseph Shiposh, chief of the Armament University.

"This building has raised the bar to educate future generations and will remind us all to dedicate ourselves to the men and women who so proudly serve in our Armed Forces and especially to the memory of Capt. Sean P. Grimes. It's our honor to keep his memory alive."

it has been,' and I feel that reflects Grimes Hall's path and vision."

"This building has raised the bar to educate future generations and will remind us all to dedicate ourselves to the

men and women who so proudly serve in our Armed Forces and especially to the memory of Capt. Sean P. Grimes. It's our honor to keep his memory alive," Machak said.

"This is one great day for Capt. Sean P. Grimes and one great day for Picatinny," exclaimed Joseph Shiposh, Chief of the Armament University.

He acknowledged the ultimate sacrifice made by Grimes and the contributions his mother Mary has made over the years as an employee of the Picatinny Arsenal Credit Union.

GRIMES HALL BECOMES A REALITY

Shiposh recalled when he started at Picatinny and how training evolved, saying Picatinny flourished with a spirit of learning. Shiposh also recognized the members of Picatinny who made Grimes Hall a reality.

Don Grimes, brother of Capt. Grimes, spoke for the family by acknowledging the work Picatinny Arsenal does to defeat improvised explosive devices. "God Bless the work you do," Grimes said.

KNOWN TO SOLDIERS AS "DOC"

Also in his remarks, Don Grimes recalled that his brother, known as "Doc" by fellow Soldiers, volunteered to go on 80 raids in Iraq and "kick down the door" on many terrorist locations.

Don Grimes remembered asking his brother if he would "hang back" from going on patrols with his fellow Soldiers.

His brother responded, "My Soldiers and combat medics don't hang back, especially that my E-4/E-5 medics have been killed on patrol."

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Investing in the Army's future for 'technological overmatch'

BY DAVID MCNALLY

RDECOM Public Affairs

ABERDEEN PROVING GROUND, Md. -- The U.S. Army vision for lethality science and technology investment is to enable overmatch in weapon systems for both offensive and defensive capabilities.

Army Chief of Staff Gen. Raymond Odierno said attaining overmatch is critical to the Army of 2025.

"The Army has global responsibilities that require large technological advantages to prevail decisively in combat -- 'technological overmatch,'" Odierno wrote for the Army's official blog, in 2012. "Just as airmen and sailors seek supremacy in the air and on the seas, Soldiers must dominate their enemies on land. Modernizing, especially as end strength is reduced, is the key to ensuring that the Army's dominance continues."

To achieve that supremacy, Army researchers aggressively pursue technological overmatch.

"In lethality, overmatch means we can defeat the threat to maintain an advantage," said Keith Jadus, acting director of the lethality portfolio for the Office of the Deputy Assistant Secretary of the Army for Research and Technology.

"That means we have an advantage in every sense of the word. Overmatch is much bigger than lethality. We need to be able to see farther, reach farther and to ensure that our forces are protected outside the range and influence of the enemy."

Jadus said the goal of the lethality portfolio is to create an unfair fight.

"Part of my strategy in lethality S&T (science and technology investment) is that we maintain overmatch," he said. "It's absolutely true that lethality is part of creating an unfair fight, but we should never forget all the other pieces of that fight."

As researchers seek new offensive capabilities for long-range fires and small arms, they are also considering the Army's requirements for defensive postures, such as air and missile defense.

"For air defense and missile defense, we're looking at kinetic weapons systems, such as missiles and gun systems, and

Photo by Army News Service



Soldiers from the 17th Fires Brigade, based at Joint Base Lewis-McChord, Wash., fire an M198, 155mm howitzer during a recent combined live-fire exercise at the Yakima Training Center in Washington.

non-kinetic weapons, such as high-energy lasers. These systems will be used to defeat rockets, artillery, mortars, unmanned aircraft and cruise missiles and also high-energy lasers as a directed energy solution,

Jadus said "Lethality is more than just offensive lethality," Jadus said. "It is the ability to provide protection. Lethality is what protects our Soldiers. It is the capability to reach farther than our adversary and the ability for Soldiers to hold their ground, protect their ground and move forward."

The Lethality Portfolio represents S&T investments at the Armament Research Development and Engineering Center at Picatinny Arsenal, New Jersey; the Aviation and Missile Research Development and Engineering Center and Space and Missile Defense Command at Redstone Arsenal, Alabama; and the Army Research Laboratory at Aberdeen Proving Ground, Maryland.

AFFORDABILITY

Jadus manages an annual investment portfolio of nearly \$250 million with wide-reaching implications for the Army of the future.

"The Army has to deliver affordable weapons systems because of the large number of systems it buys," Jadus said.

"With the budget environment we are in, we have to focus our technologies on how we can bring additional capability while maintaining affordability."

EXTENDED RANGE

Army leadership wants to increase the range of its weapons systems. Across the spectrum of weapons systems, the Army needs to be able to engage ground targets -- even greater than 300 kilometers offensive range. Army S&T is working on long-range fires to extend the range of rockets to address this challenge, and significantly increase the range of cannon artillery. The Army is also working to extend the reach of Soldier weapons, including individual weapons, mortars and close combat missiles.

PRECISION

"We need to be able to maintain precision," Jadus said. "We brought precision to our field artillery capability, and we've had precision in our rockets. We are trying to bring affordable precision to everything including small arms, 40mm grenades and mortars."

The Army uses GPS to great effect; however, planners see a need to provide precision even if GPS is denied.

"If we utilize GPS for guidance on a missile or artillery shell, we have to make sure that if somebody shuts down our GPS, we can still deliver the precision we promised," he said. "Technology investments today are focused on mitigating this risk."

SCALABLE EFFECTS

The Army also seeks a scalable range of effects, both lethal and non-lethal, Jadus said. "Think of warhead effects that are able to be increased or decreased," he said. "We envision the capability to decrease lethality to reduce collateral damage, or increase lethality tailored to the targets. Traditionally we have focused a lot of our warhead technology on hard vehicle targets, but we need to be able to defeat a range of targets such as light vehicles,

buildings and bunkers. We also need non-lethal solutions for our maneuver forces to operate in areas with non-combatants"

DISRUPTIVE ENERGETICS

Researchers and engineers have been manipulating an energy density curve for energetic materials for decades.

"Advancements have been incremental -- five or 10 percent here and there, for a long time," Jadus said. "But Army researchers are rethinking all the physics. They're going to the molecular level and discovering how we can put a lot of energy in a molecule and then find out how we can release that energy and look at something that would give us an increase of an order of magnitude or more in our energetic density."

What this can do for the Army is huge, he said. With new material science advances, researchers foresee a 40mm grenade that a Soldier fires from a rifle to deliver dramatic effects.

"You can really change the dynamic of what that Soldier is able to do," Jadus said. "It may mean a 40mm grenade with 155mm artillery effects. We may not get there, but it is certainly where this can take us. It can also radically increase the range of our weapons"

It's all in the name, he said. Disruptive goes beyond leap-ahead technologies.

"When we start getting these capabilities out there I think it's going to be disruptive," Jadus said. "We're going to have to look at how we engage in warfare. Advanced capability such as this warrants a holistic review of Army tactics, techniques and procedures. A battlefield where an individual Soldier possesses artillery lethality within a grenade-sized munition is a much different battlefield."

DIRECTED ENERGY

Researchers are also looking to one solution to counter the threat of rockets, artillery, mortars and missiles, and unmanned aerial vehicles with directed energy.

"Directed energy applications are considered game-changing technologies by the Army," said Richard De Fatta, director of the Emerging Technology Directorate within the Technical Center of the U.S. Army Space and Missile Defense Command and Army Forces Strategic Command. "When fielded, they will provide cost and operationally effective alternatives to conventional missiles, guns, and similar systems. A directed energy 'bullet' is generated almost entirely by electrical energy and does not require resupply except fuel to generate electricity."

With high-energy lasers, Jadus said there is still a lot to work out.

"We recently had some impressive demonstrations using a commercial laser and supporting beam control, power, and thermal subsystems all integrated onto

See INVESTING on Page 7



Photo by Army News Service

An M142 High Mobility Artillery Rocket System, or HIMARS, fires a missile downrange.

INVESTING IN THE ARMY'S FUTURE

continued from Page 6

a mobile military truck, yet we still need to further mature the technology," he said. "Our laser programs are achieving promising results in the laboratory, and we are developing support subsystems to enable long run-times at these laser's higher power levels."

NON-LETHAL OPTIONS

The Army is also looking at high-powered microwave and high-powered radio frequency technology to defeat electronics and other capabilities and help to disrupt other targets, such as the improvised explosive device threat.

"We're looking at this as a non-lethal weapon," Jadus said. "We can use a high-powered microwave to put energy on a person and force them to move out of the way. I've talked to Soldiers who have been demonstration subjects on this project. When subjected to the high-power energy beam, the demonstration subjects become so uncomfortable that they move away from the source. We are leveraging work done by the Joint Non-Lethal Weapons Directorate led by the Marine Corps and the Air Force on this technology."

Jadus said it will be interesting to see how the Army uses this capability.

"Some people call it a front bumper for our combat vehicle fleet. We can mount this on the front of a vehicle, so that if a crowd starts to come toward the vehicle, we can politely move them out of the way by putting a little bit of energy on them," he said. "It also helps us determine intent. If somebody is not pointing a gun at us, we can use a non-lethal device to disperse them. If they respond aggressively we can escalate to a lethal interaction, but it gives us the option not to have to."

FUTURE CHALLENGES

"I think a lot of technology that is advancing in the commercial world is of a lot of value to us," Jadus said. "We spend a lot of time looking at those technologies and then figuring out if we can use them in the military environment."

A challenge to developers is the gun-launch environment. As a gun-launched projectile exits the tube it may experience 20,000 or 30,000 Gs of force.

"There are not a lot of systems that encounter that shock," Jadus said. "We're talking tens of thousands of G forces exerted on electronics chips. We have to figure out how to make sure our chips are sufficiently hardened to weather that environment and remain viable. Those chips are essential to the accuracy of those systems because we have a very low tolerance for an error in the guidance system in a weapon. Honestly the difference is life and death."

Because the stakes are high, S&T investments are critical, Jadus said.

"We have the unique opportunity to explore and look at how we solve problems a little bit differently and with more innovation," he said. "We can shape the future. We can go try things. I think the environment we're in now is one of collaboration. We have frequent dialogs with our user representatives and our program executive office partners. We also work with them to develop long-range plans."

REVOLUTIONARY CAPABILITIES

The Army also actively collaborates with industry and foreign partners to better understand what they have available.

"I believe in order for Army S&T to be truly innovative and deliver revolutionary capability to our warfighters, we need to expand our search beyond our traditional labs," Jadus said. "Taking the best industry, academia and our research partners have to offer, only then can we successfully increase our overmatch."

In recent years, the Army completed an internal process review on how it does long-range investment planning.

"This has been a windfall for S&T because now we know where the Army wants to go in the future," Jadus said. "Now we have a really good process to vet the future years' requirements and what associated technologies we need to develop. Does the Army want a new tank gun in the future or a new artillery system? The good news is we develop broad-based technology that applies to more than just one system. S&T is critical for the future as it informs the Army of the possible."

Jadus said there are many good S&T programs ongoing that will pay future dividends in terms of Army capabilities.

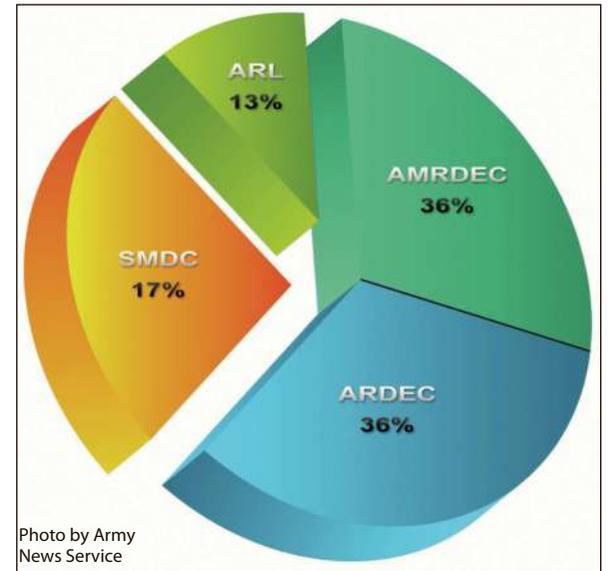


Photo by Army News Service

The Army invests annually in lethality research at the Armament Research Development and Engineering Center at Picatinny Arsenal, N.J.; the Aviation and Missile Research Development and Engineering Center and Space and Missile Defense Command at Redstone Arsenal, Ala.; and the Army Research Laboratory at Aberdeen, Proving Ground, Md.

"If we don't prove it in S&T, and we don't deliver an affordable solution, when the program of record comes along it costs more to learn those lessons there," he said. "We play a critical role because we're helping to shape the path to the future. I think we're in a position to make a big difference. We have the talent to pull this off and that's exciting."

"I'm extremely optimistic. I think we're going to see a lot of new capabilities coming down the road," he continued.

"We are pushing forward to modernize the force. We have put an unthinkable capability in weapon systems that a Soldier can take onto the battlefield, but we still have a lot of work to do.

"We've gotten more precision and range, but everything we do is challenged. For every advancement through S&T lethality, an adversary is working on a way to defeat or marginalize it. That is why S&T in this area is really a big priority."

Night turns into day: Army researchers enable night lethality

Army News Service

FORT BELVOIR, Va. -- In science fiction, technology problems are solved with the stroke of a writer's pen. In reality, science and technology research takes time, and a lot of effort.

"If you've seen the movie Predator, you've seen a perfect illustration of the process of lethality," said Dr. Don Reago, director of the Night Vision Electronics Sensors Directorate, or NVESD, of the U.S. Army Communications-Electronics Research, Development and Engineering Center at Fort Belvoir, Va. "First, you must identify your target and if in fact it is a target, then you can move in and eliminate the threat."

In the movie, the predator identifies targets using thermal technology and deducing whether or not they are carrying weapons.

"If potential targets were unarmed they went unharmed, much like how our warfighters operate at present," Reago said. "Today, the Army's goal is to improve situational awareness for Soldiers, resulting in increased survivability, decreased civilian casualties and accurate lethality when necessary."

At NVESD, Army researchers are developing sensors, like the thermal sensors from Predator, as well as image intensification.

"With every advancement, we're able to refine our work, build upon it and make it better," Reago said.

"We use every opportunity we can to make our sensors smarter, lighter and smaller.

Sensors increase the odds of survivability by limiting unnecessary casualties and targeting threats. One such development is a consolidated control platform for multi-sensor systems. This fully integrated approach improves Soldier efficiency and allows the user to accurately detect, locate and then target threats.

The Multi-Function Video Display, or MVD, provides a touch screen interface for viewing and controlling all attached subsystems by combining all of the disparate control and display hardware into one universal interface.

"Having all sensor outputs controlled by one integrated system allows for improved target detection performance through the statistical combination of algorithmic processing results," Reago said. "At NVESD, we're able to understand the problem and create an effective, cogent and straightforward solution to overcoming that problem."

The Army's premier scout sensor is the Long Range Advanced Scout Surveillance System, or LRAS3, also a science and technology effort from CERDEC NVESD.

This long-wave infrared thermal imager, Day TV camera and a differential GPS-based far-target location system gives Soldiers the ability to detect and locate threats long before engaging targets with any direct action.

"By imaging scenes in the infrared, our warfighters are afforded additional capabilities to detect threats through smoke and fog with imagery stability over day, night and temperature extremes," Reago said. "After identifying the threats, Soldiers have the capability to target these threats using CERDEC NVESD-developed micro-laser technology."

Multiple athermal laser designs were developed over the last 10-12 years and have resulted in a significantly lighter weight and more compact man-portable laser designator/marker.

Athermal means a process that does not involve either heat or a change in temperature. These NVESD athermal laser designs are based on minimal electronics, Reago said. The Army continues to look for advances in waveguide technology to provide advanced displays that improve ergonomics and Soldier situational awareness.

These new displays can provide Soldiers with a wearable display, which is coupled with advanced algorithms and symbology to improve overall lethality.

"CERDEC NVESD is at the cutting edge of these types of displays for both Soldier-borne and vehicle-based platforms, slowly giving our Soldiers capabilities much like the predator from the future," Reago said. "The work conducted at NVESD really matters to our Soldiers; the technology helps accomplish the mission while saving lives."



Photo by Todd Mozes

PICATINNY REMEMBERS SEPTEMBER 11TH

Picatinny Arsenal observed the 13th anniversary of the Sept. 11 attacks against our nation during a wreath-laying ceremony at the Picatinny 9/11 memorial located at the Visitors Center. From left, Command Sgt. Maj. Hu'Dene Wright, Acting Installation Senior Commander Col. Scott Turner, and Garrison Commander Lt. Col. Ingrid Parker salute after a wreath was placed at the memorial.

At Picatinny, there are 173 red oak memorial trees for New Jersey service members who gave the ultimate sacrifice since that day. Thousands of Americans and citizens of other nations died from the terrorist attacks in New York City, Washington, D.C., and Shanksville, Pennsylvania.

The attacks also prompted our nation to take numerous military actions. In the 13 years since Sept. 11, hundreds of thousands of armed services members have deployed to areas of armed conflict.

Thousands have given the ultimate sacrifice while defending our nation and securing our future. We remember Sept. 11 and all the sacrifices of American service members who proudly served and continue to serve our nation in uniform. Photo By Todd Mozes.

Picatinny Arsenal signs 50-year water agreement with American Water Works

BY FRANK MISURELLI

Picatinny Public Affairs

Picatinny Arsenal has entered into a \$297 million agreement with American Water Works Company of Voorhees, New Jersey, for water and wastewater services for 50 years.

The contract is for ownership, operation and maintenance of the water and the wastewater systems at Picatinny Arsenal.

The contract, signed Aug. 29, was awarded at its approximate gross amount, which will be subject to annual economic price adjustments.

"Since 1996 we have been very successful with Veolia Water as our contract operator for the water and wastewater systems," said Richard Havrisko, Picatinny's director of public works.

"They (Veolia) have done a great job maintaining, repairing, and operating our systems through difficult financial periods," he continued.

"This privatization contract differs from the government owned/contractor operated systems, as it will result in the divestiture of the systems and provide a funding stream for the new owner to make capital improvements to the systems. We are excited to see the award of these systems to American Water.

"We expect this contract will result in significant improvements to the system and provide sustainable infrastructure for the next 50 years," Havrisko said.

Picatinny Arsenal joins eleven other military installations that have contracted with American Water's, Military Services Group.

They include Fort A.P Hill, Va, Fort Sill, Okla., Fort Leavenworth, Kan., Scott Air Force Base, Ill., Fort Rucker, Ala., Fort Meade., Md., Fort Belvoir, Va., Fort Hood, Texas., Fort Polk, La., and Hill Air Force Base, Utah.



Retiring Picatinny engineer reflects on his career at arsenal

General Engineer Benmun Seto met with Barbara Machak Sept. 3 on his last day of retirement, providing an overview of his career at Picatinny Arsenal. Machak is the acting director of the Armament Research, Development and Engineering Center.

Seto began his civil career with the U.S. Department of Transportation, National Highway Traffic Safety Administration in Washington, D.C. in 1977.

He was responsible for Federal Motor Vehicle Safety Standards compliance. In 1979 he transferred to Picatinny Arsenal, and has worked in the Systems Support Engineering branch of the Logistics Research and Engineering Directorate ever since.

Seto was originally the nuclear maintenance engineer on the M422 8-inch Atomic Projectile. When the US Army terminated the nuclear program, he continued working as a maintenance engineer for conventional weapons

He worked in numerous programs that included the XM93 Hornet (Wide Area Munition), Mobile Detection Assessment Response System – Exterior, M303 Blasting Demo Kit, XM25/XM26/XM27 Threat Cue System, the Individual Service Non-Lethal System, and the Integrated Acoustic System.

Looking Back ... At Picatinny



BY PATRICK J OWENS, ARDEC HISTORIAN

The accompanying photo from October 1943 shows a railroad car after it took on a load from the steel chip bins between wings 3 and 4 of building 31, then the Metal Components Shop and now the Armament Software Engineering Center. These bins, along with all metal components work in 31, provided much of the oil which seeped into the ground and contaminated water on the arsenal and beyond. Even Jersey City complained of Picatinny sending polluted water to its reservoir in Parsippany.

To control pollution, Picatinny constructed concrete slabs with retaining surfaces and catch basin around the bins and installed pipes in them to catch oil and take it to collecting drums. Visible under the car is a concrete apron and a drain to salvage even more oil.

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Buying a home? Do not let your VA benefits go to waste

BY ERIC KOWAL

Picatinny Public Affairs

Picatinny Arsenal's Army Community Service Office brought in several representatives from HomeBridge Financial Services Sept. 10 for a "Lunch and Learn" presentation to discuss the applying for, using, and the benefits of a Veterans Affairs home loan, .

More than 25 million Veterans are eligible for VA financing, though less than 10 percent take advantage of the opportunity.

"The biggest misconception that is out there is that VA loans come from the VA. They do not. The VA backs your and guarantees the loan," said Matthew Gratalo, a Certified Public Accountant and branch manager for HomeBridge.

Gratalo said that Veterans can virtually buy a house with no money down due to the backing of the VA. "You can walk to the closing table with no money at all and receive a set a keys," he said.

When a home buyer purchases a home, part of their monthly mortgage payment includes a private mortgage insurance (PMI). That PMI is taken out with the VA home loan because the loan is backed therefore as a Veteran your monthly mortgage payment is also lower. Another tangible benefit is a lower interest rate.

All the Veteran and or a spouse needs to do is have a certified copy of their DD214 and complete a Request for Certificate of Eligibility through the VA. Once the VA certifies you they will send you a certificate which you can then bring to a bank or realtor to begin finding out what home works for you financially.

Mark Greene, a Mortgage Loan Originator with HomeBridge told the servicemembers and families in attendance that "whether you have a credit card with a \$300 limit and \$290 charged to it or a \$10,000 credit card with a \$9,900 balance, it affects your credit score the same."

Greene said that you need to work to reduce the balance on your credit cards or loans in order to increase your credit limit, even if you owe a very small amount.

"It's not the amount that they are concerned with. It is that you owe somebody somewhere some money. That takes away 'credit.'"

There are a lot of tools and tips available but you have to be willing to delve into the plethora of information available at your fingertips. For more information on how to apply and what to do once you have been approved please visit <http://www.benefits.va.gov/homeloans/> Also, visit your Army Community Services Office to assist you.



Photo by Erin Usawicz

Melvin Outen talks to ARDEC acting director Barbara Machak about the ammunition logistics program.

Picatinny partners to create ammunition management program

BY FRANK MISURELLI

Picatinny Public Affairs

In the world of ammunition logistics, the Career Program 33 (Ammunition Management) will take you to places like an ammunition manufacturing plant, ammunition supply point or ammunition depot, or headquarters staffs at the Department of the Army.

"It's rare that an ammunition logistics manager gets to see what Picatinny Arsenal puts that ammunition through before it's fielded," said Thomas Hunt, Integrated Logistics Support Branch Chief at the Armament Research, Development and Engineering Center.

With approximately 2,400 General Scheduled and equivalent Federal Wage System and Local National members, the Ammunition Management Program offers only a handful of competitive professional developmental assignments, mostly at Army or TRADOC level, ranging from 30 to 90 days.

Recently that changed when Picatinny Arsenal welcomed its first CP 33 ammunition logistician, Melvin Outen, for a 30-day developmental assignment. Outen is Inventory Manager, Artillery fuzes and 60mm, Headquarters, Joint Munitions Command, Rock Island, Illinois.

In the four weeks that Outen began his developmental assignment, he said he was exposed to "the advanced R&D facilities and amazing work being conducted such as at METC's Synthesis and Formulating Lab combining two or more chemical species to form a more complex product, to the

Propellant Surveillance Lab, and the large scale processing lab."

Outen noted that, "There is a great sense of pride and fulfillment in what they are accomplishing and what they think they will accomplish in the future in support of the Warfighter. Everyone was extremely excited about the work they are doing from the scientist in the lab to the administrative assistants."

When he visited the fuze development center, which is a rapid prototyping facility created to expedite new fuzing technology to the Warfighter, "I noticed a new training aid that was designed for the Marines and it was very unique and of such high quality."

During his briefing with the Future Concepts Division, one of the concepts in development was to have a totally automated Ammunition Supply Point (ASP) in the future. "I can almost see an ASP being automated from a tour I took through John Deer," said Outen.

"This newest ammunition management program career developmental assignment was pushed along by ARDEC employee Dan Oleary, Integrated Logistics Support manager," said Hunt.

"This program is only possible through the great support provided by the ARDEC Centers, the Quality Engineering and System Assurance Directorate and the Program Executive Office for Ammunition and its program managers. We truly appreciate their superb support and anticipate that this program will be offered twice per year to senior CP 33 managers," he said.

WILLIAMSON

continued from Page 1

argue that the world remains a very dangerous place. There are still going to be requirements for us to deploy and use our Army. The biggest challenge to us is how do you do that in this environment, how do you still provide everything that the nation expects its Army to do under some of the constraints.

"When you start looking at a force structure drop that can take you down 100,000 Soldiers, you still have requirements out in the field," he said.

"As an acquisition person, we want to try to maximize technology," the general added.

Williamson said the acquisition community has become more agile and quicker in responding to

requirements in the field.

"What you've seen over the last 13 years is that when a threat has been identified, our ability to deliver a capability very quickly is really measured not in time but in Soldier's lives," he said.

"Because if there is a threat and we take too long to respond to that, then Soldiers are wounded, Soldiers are potentially killed and we are not able to accomplish the mission. And so it's the time factor that means the most to us at this point."

As for career development, the general advised against always seeking that "perfect" job.

"Do the job you have right now to the best of your ability and people will notice that. You will learn, you will gain experience and it will prepare you for the opportunities that will be out there."

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