

## HIRING CYBER PROFESSIONALS



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# THE PICATINNY VOICE

Vol. 29 No. 23 <http://www.pica.army.mil/Picatinny/voice/voice.pdf>

Published in the interest of the Picatinny Arsenal, N.J., community

November 11, 2016

## Brig. Gen. Patrick Burden, 8 Picatinny personnel receive awards

The Picatinny Chapter of the National Defense Industrial Association also recognized 4 others

BY FRANK MISURELLI

Picatinny Arsenal Public Affairs

Presenting nine awards to Picatinny Arsenal honorees, the Picatinny Chapter of the National Defense Industrial Association, or NDIA, held its 36th annual Firepower Awards Luncheon on Nov. 3 at the Skylands in Randolph.

Accepting the Firepower Management Award was the Senior Commander of Picatinny Arsenal and Deputy Program Executive Officer Ammunition, Brig. Gen. Patrick Burden.

"I don't feel worthy. I feel like I received more than I have given over the last two years," Burden said in accepting his award. "I accept this award on behalf of all of you, 6,000 employees there at Picatinny Arsenal, industry partners around the room and around the county, and also the service members you serve around the country."

Gary Barber, Product Director for Combat Armaments and Protective Systems for Project Manager Close Combat System, was acknowledged

with the Victor Lindner Development Award along with two other persons.

"This means a lot to me because it's named after one of my mentors when I started at Picatinny, Vic Linder," said Barber. "The biggest lesson that I've learned over my last 27 years of working at Picatinny is that acquisition is a team sport. No single individual is able to design, develop, produce and field Army equipment.

"It takes a very diverse team of individuals, all focused on the same goals, to deliver capabilities to the warfighter" added Barber. "It's very analogous to sports because you need managers, coaches, team leaders and dedicated professionals with individual skills to overcome everyday diversity and challenges.



Thirteen persons were honored at the 36th annual Firepower Awards Luncheon on Nov. 3 at the Skylands in Randolph, New Jersey including nine honorees from Picatinny Arsenal. The event was presented by the Picatinny Chapter of the National Defense Industrial Association. Front row, from left, Paul Manz, Chris Grassano, Gary Barber, Monty Dellapi accepting for Dan Olson, Peter Altavilla Jr., and Jonathan P. Irizarry Jr., accepting for John Irizarry. Back row, from left, Dennis Diehl, Lawrence Sotsky, Brig. Gen. Patrick Burden, Donald Chrans, Col. Moises Gutierrez, Brian Fuchs and Col. Willie Coleman. Photo by Todd Mozes.

"I've been fortunate to have worked on successful teams and struggled through technical problems with some truly great people here at Picatinny in order to deliver incredible firepower to our Soldiers, Sailors, Airmen, Marines and Special Operators in harm's way," Barber continued.

In addition, John Irizarry was also acknowledged with the Victor Lindner Development Award. Irizarry currently serves as the Project Officer for International Programs. He was unable to attend, but his son Jonathan accepted his award on his behalf.

See FIREPOWER, Page 4

## Army fielding new magazine optimized for M4/M4A1 Carbine and M855A1

BY PETER ROWLAND

PEO Soldier

The Army is issuing Soldiers a new small arms 5.56 ammunition magazine designed expressly for the M4/M4A1 Carbine and M16 family of weapons.

The 2nd Battalion, 75th Ranger Regiment from Joint Base Lewis-McChord, Washington, was the first unit to receive the new "Enhanced Performance Magazine (EPM), as free issue in July," said Anthony Caetero, Assistant Product Manager for the M4/M4A1 Carbine.

Other units are acquiring smaller quantities through the standard supply system.

Caetero said the regiment received 6,800 magazines in July.

More than 49,000 of the new magazines will be issued to other units at JBLM before the end of the year, he said.

Army engineers and scientists optimized the EPM to work with the M4/M4A1, M16 rifle, and standard military



The Enhanced Performance Magazine or EPM eliminates weapon wear caused by the steel-tipped M855A1 at the upper receiver/barrel extension interface, a condition discovered during laboratory testing.

5.56mm small arms round, the M855A1. The M855A1, known also as the Enhanced Performance Round (EPR), has been in use since 2010.

Following the EPR's release, engineering tests of M4/M16 rifles firing the M855A1 showed that the weapons were sensitive to the EPR's steel tip.

An engineering team from Picatinny Arsenal subsequently made a design change to the magazine that corrected this issue.

The EPM eliminates weapon wear caused by the steel-tipped M855A1 at the upper receiver/barrel extension interface, a condition discovered during laboratory testing.

Soldiers insert the EPM into the magazine well of a carbine's lower receiver that positions rounds for feeding.

The forward moving bolt and bolt carrier assembly strips the rounds from the magazine and feeds them smoothly into

the chamber for firing. Soldiers also can use the new magazine with the previous standard military 5.56mm round, the M855.

The EPM is tan-colored and has a blue-gray follower. The latter is the spring-loaded plastic component that positions each round up into the lower receiver of the weapon. Each magazine holds a maximum of 30 rounds.

Tests show that the EPM increases system reliability and durability.

It also ensures optimal performance in M4/M4A1 and M16 weapons when used with the EPM and EPR, Caetero said. The Army expects to field more than 1.8 million of the new magazines over the next 12 months.

Center Industries of Wichita, Kansas, is the manufacturer. Caetero said the Army has received more than 700,000 of the new magazines from the company to date.

## Picatinny Senior Commander Brig. Gen. Patrick W. Burden gets new assignment



BY AUDRA CALLOWAY

Picatinny Arsenal Public Affairs

The Army announced last week that Picatinny Arsenal Senior Commander Brig. Gen. Patrick W. Burden has been reassigned to Fort Belvoir, Virginia, where he will serve as the Program Executive Officer for Enterprise Information Systems (PEO EIS).

Col. Alfred Abramson III is replacing Burden as Deputy Program Executive Officer Ammunition and as Senior Commander at Picatinny. Abramson will be promoted to brigadier general during a ceremony on Nov. 9 at Aberdeen Proving Ground, Maryland.

A Change of Management ceremony is scheduled for Nov. 14 at the Lindner Conference Center after a town hall gathering. Congratulations to Burden on his new assignment and a hearty welcome to Abramson as part of the Picatinny Arsenal community.



A plaque commemorating a “Decade of Excellence in Software Engineering” by the Armament Software Engineering Center (Armament SEC) at Picatinny Arsenal was recently unveiled. The Armament SEC researches, develops and sustains advanced software products and services used in weapons systems by U.S. service members. Developing software that performs complex data processing in advanced military weaponry is critical.

The Armament SEC was appraised at “Maturity Level 5” in a method sanctioned by the CMMI Institute, using the model that consists of over 400 “best practices” for organizations that develop products. The successful 2016 appraisal marks the fourth consecutive time that the software engineering center had been appraised at CMMI Maturity Level 5 following appraisals in 2006, 2010, and 2013. The Armament SEC is the only U.S. Army organization currently appraised at Maturity Level 5.

Pictured from left, John Hedderich, Director, Armament Research, Development and Engineering Center; Alex Stall, CMMI Institute; U.S. Rep. Rodney Frelinghuysen; David Castellano, Executive Director, Munitions Engineering Technology Center; and Brig. Gen. Patrick Burden, Picatinny Arsenal Senior Commander. Photo by Todd Mozes.

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# THE PICATINNY VOICE



Senior Commander Picatinny Arsenal and Deputy Program Executive Officer Ammunition

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Printed on recycled paper

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For matters about business, advertising and subscriptions, contact the printer, North Jersey Community Newspapers, 100 Commons Way, Rockaway, N.J., 07866 at (973) 586-8195/8197.

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We want your story ideas. To reach us, please contact the editor at the Picatinny Public Affairs Office.

All manuscripts, photos or artwork may not be returned without prior coordination. Digital images should be submitted at a resolution of at least 200 pixels per inch.

Due to space limitations, the editor reserves the right to edit submitted articles. Contributions can be sent by e-mail to [picaVOICE@conus.army.mil](mailto:picaVOICE@conus.army.mil).

The editorial policy of The Picatinny Voice is to accept letters to the editor and commentaries.

Submissions must be signed or received via e-mail through your own account to be considered for publication, but writer's names may be withheld upon request. Opinions expressed are those of each author and not an official expression of the Department of the Army or the Command.

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<http://www.pica.army.mil/Picatinny/voice/voice.pdf>

# Remembering New Jersey native killed at the Battle of Mogadishu

COMMENTARY BY FRANK MISURELLI

Picatinny Arsenal Public Affairs

They were told that the operation would last an hour. But the battle lasted 18 hours and cost 18 Americans their lives, including Cpl. James "Jamie" Smith of Long Valley, New Jersey.

Smith was 21 years old and is buried at Fort Benning, Georgia.

I didn't know Smith. I was tasked by Brig. Gen. James Boddie, Jr., a former senior commander of Picatinny Arsenal, to prepare remarks for Smith's building dedication held on June 11, 1996, at Picatinny Arsenal.

I struggled with drafting remarks because at the time the only accounts of this battle were from the media and sketchy.

As the June 11 date neared, I received a call from a Philadelphia Inquirer reporter named Mark Bowden, asking if he could attend the building dedication

"I'm not coming to cover this event for my paper," said Bowden. His purpose for attending was to meet the members of Smith's Ranger unit and meet Jamie's father, James Smith. After hearing Bowden's request, I told him I would escort him to the event.

## As a child, he wore his father's beret until he was in eighth grade.

I will always remember Boddie giving his speech—you know it's a good speech when the audience begins to cry.

"It is with pride that we honor the brave and selfless Soldier from our community," Boddie said. "His courage, as well as his team courage, never wavered. This country is strong because of individuals like New Jersey's native son, Cpl. James E. Smith."

At the conclusion of the dedication, Bowden was invited to Smith's home to meet and talk to the Ranger survivors, which later served as the catalyst for Bowden's bestseller, "Black Hawk Down, A Story of Modern War."

The elder James Smith was the local representative for the Small Business Administration, serving northwestern New Jersey. He was a retired Army Ranger captain, wounded severely in Vietnam.

I met him numerous times at Picatinny after the building dedication. He mentioned that Jamie was the eldest of his three sons and that his other two sons also enlisted in the Army. His son Matt served with the

**Fellow Rangers would not leave him behind, but they could not rescue him from the area before he bled to death. "They would either all come out or none of them would come out," said Jamie's father. "This was a vicious no-holds-barred dog fight. Jamie died hard."**

Rangers and then attended college and rejoined the U.S. Army Special Forces.

Jamie was a graduate of West Morris Central High School Class of 1990, where he played both varsity lacrosse and football. He also was a Boy Scout. He enlisted in the Army right after graduation to become a Ranger. As a child, he wore his father's beret until he was in eighth grade.

While attending high school, Jamie came to the defense of a student with Downs syndrome who was getting picked on.

"Jamie stepped in and, right before fists flew, a teacher came along," said James. "He wouldn't put up with it and that somebody had to stand up. That's who he was."

Jamie was part of a force deployed to Somalia in September 1993 to contain warlords who were starving the Somali people.

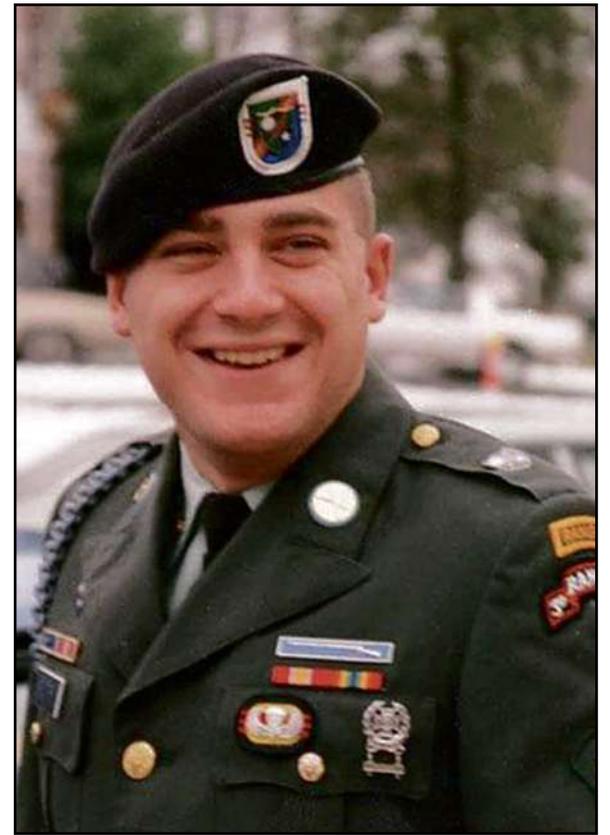
At the time, the battle was the bloodiest battle involving U.S. troops since the Vietnam War and it remained so until the Second Battle of Fallujah, Iraq, in 2004.

On Oct. 3, 1993, a force of 120 Army Rangers and members of the elite Delta Force team launched a raid to capture the warlord Mohammed Adid.

After a Blackhawk helicopter went down, Jamie was one of the first Rangers to arrive at the scene to secure the site and rescue survivors. A bullet struck his thigh, severing his femoral artery while he was helping another Ranger.

Fellow Rangers would not leave him behind, but the Rangers could not rescue him from the area before he bled to death. "They would either all come out or none of them would come out," said Jamie's father. "This was a vicious no-holds-barred dog fight. Jamie died hard."

In a WABC radio interview with Steve Malzberg,



Cpl. James "Jamie" Smith was 21-years-old when he fought in the Battle of Mogadishu.

James said, "When I watched the movie, Jamie's death is very graphic. His death actually happened over three hours. That, for me, was the most emotional scene in the movie, and what they had to deal with during that battle. The scene when he's dying, they called him Jamie, and that's what we called him," said his father.

Jamie was posthumously awarded a Bronze Star with Valor Device and Oak Leaf Cluster in addition to a Purple Heart. On Nov. 10, 1993, the late U.S. Senator Frank Lautenberg from New Jersey paid tribute to Jamie when he read a proclamation to members of the U.S. Senate.

Lautenberg said, "Smith died a hero. This county is indebted to him for his service. As more than 800 mourners at his memorial service demonstrated, his passing leaves a void in the lives of many. His commitment to his nation, his strength of character, and his love of family and friends will always be remembered."

## Watervliet Arsenal machinist James White traces Native American roots

BY JOHN B. SNYDER AND JOHN ZAYHOWSKI

Army News Service

WATERVLIET ARSENAL, N.Y. -- Before there were cities, manufacturing centers, and yes, before Disney World, this great land of ours was nurtured and loved by a proud people who today are called Native Americans.

For anyone who may recall their grade school lessons in early American history, know quite well that one of the remarkable attributes of Native Americans was their ability to live off the land by creating lifesaving and life-improving tools with their hands.

While today's society is no longer rich in such skills, it does not mean those skills creating tools and products from scratch have been lost through generations of convenience.

At least not at the Watervliet Arsenal.

Although the arsenal is rich with skilled artisans who can machine a solid, hollow tube into a firing cannon that can send a round more than 20 miles into enemy territory, it remains deficient in having a large Native American presence in its workforce.

After all, less than one percent of the arsenal workforce are of Native American descent and so, it was difficult this American Indian Heritage Month to find someone

with such rich history. But we did.

Machinist James White traces his heritage back to his great-great-grandmother who was sold off the Micmac Indian reservation in Nova Scotia during the late 1800s and relocated to the United States.

The Micmac and or Mi'kmaq Nation once controlled northern New England and parts of Canada. Today, many Micmac people still live on the Canadian side of the border.

### FINDING A WAY TO FREEDOM

Shortly after arriving in the United States, White's great-great-grandmother ran away from her owner and found her way to Hell's Kitchen in New York City. She was again a free woman.

White said that he has no clue how his great-great-grandmother ended up in the late 1800s in a part of New York City that was predominately of Irish decent.

But, as food for thought, it may be that because the Micmac tribe was semi-nomadic that White's great-great-grandmother was, by heritage, amendable to adapting to new lands, such as Hell's Kitchen.

Unlike his great ancestors, White did not grow up learning how to use his hands to create the tools that

would put food on the table or to sustain his family.

But he did have a grandmother who was working at the arsenal and it would be her that planted the seed that would someday return White back to his roots.

In 2009, White joined the arsenal's apprentice program and during the program's four years of training and education, White not only learned how to design products, he also learned how to machine a raw piece of steel into a product that makes our troops more survivable on the battlefield.

### LINKING SKILLS OVER TIME

White said that it is kind of cool to think about how the skills of his ancestors and his machinist skills are in some way connected.

As Native Americans leveraged their hand skills to live off the land, White is leveraging his hand skills to provide for his family.

White is a good example of what has made America and the Micmac tribe so great. He makes things.

With great appreciation and respect, the Watervliet Arsenal honors during this American Indian Heritage Month those who were and still are the builder of things, the makers of life, and the nurturers of land.

## FIREPOWER AWARDS

continued from Page 1

During his acceptance speech, Jonathn praised the man who the award is named after, Victor Lindner, who received a Firepower Award in 1981.

Paul Manz was the third person to receive the Victor Linder Development Award. Manz currently supports two full time senior technical leadership jobs in parallel in his "dual-hatted" capacity as the Program Executive Office Ammunition's Chief Scientist, and Project Manager Combat Ammunition Systems (PM CAS) Technical Director.

Manz thanked John Hedderich, a 1998 Firepower winner, for hiring him and bringing him to Picatinny. Hedderich is the Director of the U.S. Army Armament Research, Development and Engineering Center, or ARDEC, at Picatinny.

Col. Willie Coleman from PM CAS accepted the Firepower Management Award. In his acceptance remarks he thanked retired Lt. Gen. William Phillips, former Principal Military Deputy, Assistant Secretary of the Army, Acquisition, Logistics and Technology, and a 2013 Firepower recipient. Coleman said, "Phillips came to my office and said 'You should be at Picatinny Arsenal.'"

Representing ARDEC, Brian Fuchs accepted the Firepower Technology Award for his work on Insensitive Munition Technology. He thanked his wife and many of his peers.

Chris Grassano, Chief of Staff for Picatinny's Program Executive Office Ammunition (PEO Ammo), received a Firepower Management Award and added that, "Acquisition is a team sport and there is no 'I' in team." He also thanked his father, who Grassano credits for passing on his work ethic.

Col. Moises Gutierrez, Project Manager for Maneuver Ammunition Systems received a Firepower Management Award. He said, "If there were 110 of these (awards), for everyone in MAS that's where they would go."

Another representative of ARDEC, Larry Sotsky, accepted the Wilfred Hosking Production Award for his work in energetic materials. He thanked Curtis Anderson, Jr., who was a 2000 Firepower Award winner, for his help

throughout the years.

Four other individuals from the private sector also received awards from the Picatinny chapter:

- Peter Altavilla, who received the Chapter Appreciation Award for his work in the chapter scholarship program. Altavilla is a retired Army lieutenant colonel and is employed by Alion Science and Technology.

- Donald Chrans, who took home the Firepower Management Award. He is retired from the Army and then became an Army civilian. He is currently the Senior Principle Business Development Director for General Dynamic Ordnance and Tactical Systems.

- Dennis Diehl accepted the Wilfred Hosking Production Award. He is currently employed as the Senior Director of Operations for production of ammunition for General Dynamic Ordnance and Tactical Division.

- Dan Olson received a Firepower Technology Award. He is Vice President and General Manager for Orbital ATK Armament Systems Division.

Special mention was made of the late Saif Jaber Musalli, 66, who passed away on Sept. 27, 2016.

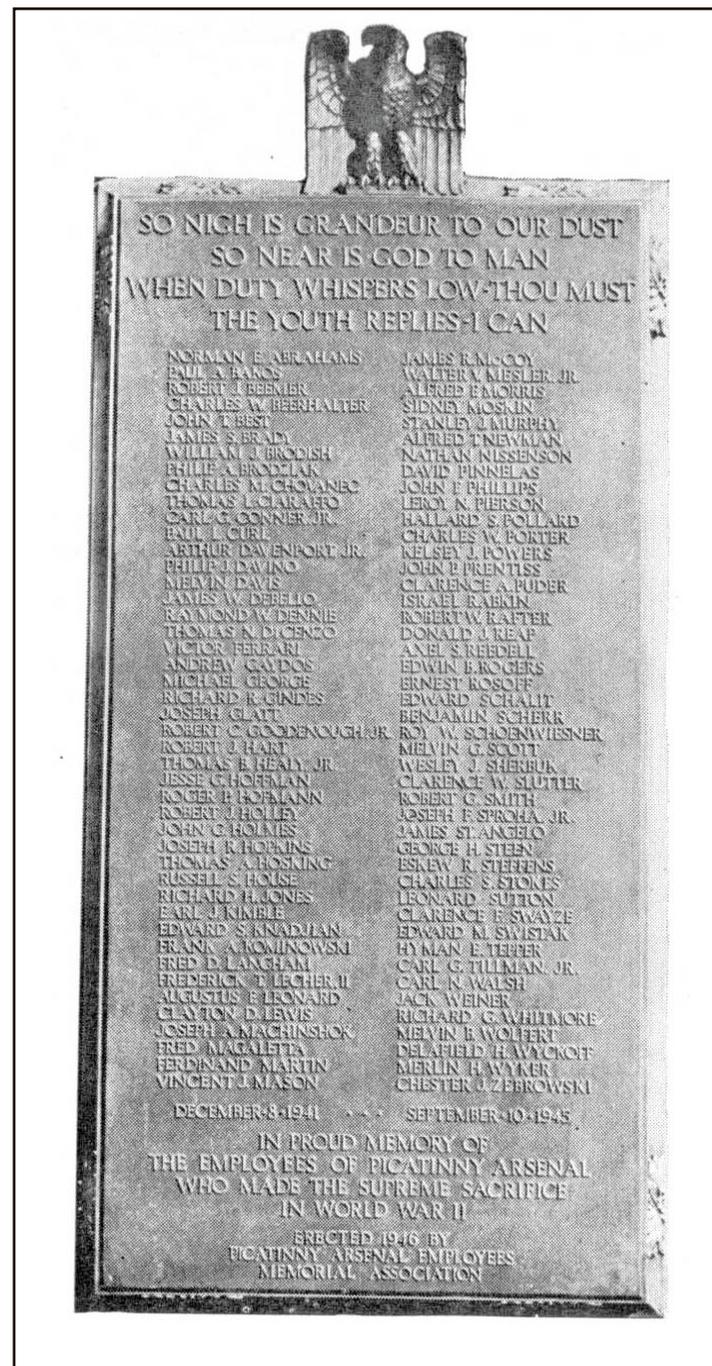
A 2003 NDIA Firepower awardee, Musalli was the Chief of Munitions Systems and Technology Division at Picatinny Arsenal.

A native of India, Musalli came to the United States in 1972. His contributions expanded the technology in tank ammunition, which was a game changer during Operation Desert Storm. In 1988, he became a recognized leader in this field by both government and industry partners and was recognized with the Army Research Development Achievement Award.

Musalli was also a mentor to many young Picatinny engineers and was a member of the American Islamic Academy, where he assisted in the education program of many young children.

The firepower awards are presented annually by the chapter to individuals employed by either government or industry whose contributions to the armaments community have distinguished their service to the national defense.

## Looking Back ... At Picatinny



PATRICK J. OWENS, ARDEC HISTORIAN

As we enjoy the long Veterans Day weekend, we give a moment of thought to those veterans who did not survive to celebrate their holiday. A monument before Picatinny's Main Gate commemorates 90 such, former Picatinny employees who died in uniform during World War II. It is easy to miss the monument as it is after the Main Gate and traffic on Route 15 moves fast. The top photo shows the monument.

Arsenal workers provided both funds and labor for the memorial. The bottom photo shows workers quarrying the stone from the arsenal's western ridge line.



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**THANK YOU FOR ALL YOU DO!**

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# Picatinny challenges students to reduce arsenal's electricity use, add renewable energy sources

BY AUDRA CALLOWAY  
Picatinny Arsenal Public Affairs

Approximately 60 students participated in a Sustainability Challenge at Farleigh Dickinson University on Nov. 3, where they strategized about how Picatinny Arsenal can reduce its electricity use by adding renewable energy sources.

Sitting on 6,500 acres, with more than more than 2.7 million square footage of floor space, Picatinny scientists, engineers and employees currently use 54 million kilowatts of energy per year. This comes with an annual price tag of nearly \$4.7 million.

For the event, students from STEM Academy at Morristown High School and Barack Obama Green Charter School were tasked to work in groups and decide the optimal set of renewable resources that would allow Picatinny to achieve a 75 percent reduction in electricity use over the next five years. The

renewable energy options were solar, wind, and geothermal.

"Picatinny's trying to determine different ways to reduce cost of operations and our carbon footprint so that we're a better neighbor," said Shah Dabiri, Picatinny's coordinator of Science Technology Engineering and Mathematics, or STEM.

"The students were presented with the real-world challenge of helping improve Picatinny's carbon footprint using technology and information available for them at the time, they were able to determine the best renewable energy mix that would give us the best possible green footprint," Dabiri said.

"We used some geothermal, some wind arrays, and solar arrays to get a 75.3 percent offset at a

cost of \$56 million over five years," said Lucas Mohs, a junior at Morristown High School, who plans to become an engineer.

He said his team achieved this by putting solar arrays on the roofs of buildings, in a parking lot and a field, spreading geothermal energy across the property

and installing wind arrays on the ridge line of Picatinny.

"They caught on quick, they're fast learners and bright kids," said Joel Harmon, Director of the Institute for Sustainable Enterprise at Farleigh Dickinson University.

"It's a privilege working with young people to help them understand the issues that we face in the world and what they can do about it. It's very challenging, but they can make a difference. Events like this bring those two messages together. I'm just so privileged to be part of it to help create a difference."

Dabiri added that events like this one helps the students understand how their math and science courses can be applicable in future careers.

In addition to Dabiri, Picatinny employees Pamela Sheehan and Stacey Yauch also participated in the event by answering questions about Picatinny and assisting students with their projects.

The STEM event was coordinated by Picatinny STEM, the Student Global Ambassador Program, Farleigh Dickinson University, the Institute for Sustainable Enterprise and First Energy.



Approximately 60 students from STEM Academy at Morristown High School and Barack Obama Green Charter School participated in a Sustainability Challenge at Farleigh Dickinson University on Nov. 3. For the challenge, the students determined a set of hypothetical renewable resources that would allow Picatinny to achieve a 75 percent reduction in electricity use over the next five years.



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# Picatinny Arsenal hosts first Armaments Collaboration Industry Day

BY FRANK MISURELLI

PicatinnyArsenal Public Affairs

Nearly 300 military and industry defense partners attended the first Armaments Collaboration Industry Day hosted at Picatinny Arsenal on Oct. 25-26 by the U.S. Army Armament Research, Development and Engineering Center and the National Armaments Consortium.

The theme was "Overmatch the Spectrum of Threat." Leaders from the Army, Department of Defense and distinguished guests, including U.S. Congressman Rodney Frelinghuysen, 11th Congressional District, New Jersey, and New Jersey Lt. Gov. Kim Guadagno, spoke on a variety of defense related topics from perspectives from the secretary of defense to New Jersey's support for Picatinny Arsenal.

"We never want our warfighters to be in a fair fight with an enemy," said John Hedderich, Director, U.S. Army Armament Research, Development and Engineering Center.

"The purpose of having this Industry Day is to further the collaboration and partnership between government and industry that drives armaments innovation," continued Hedderich. "Working together will yield superior weaponry that will overmatch against the spectrum of threats, so that our warfighters can complete their missions and come home safe."

Speakers included Kristin French, Principal Deputy Assistant Secretary of Defense and the

Acting Assistant Secretary of Defense, Logistics and Material Readiness; Lt. Gen. Michael Williamson, Principal Military Deputy, Assistant Secretary of the Army, Acquisition, Logistics and Technology; Maj. Gen. Robert Dyess, Deputy Director, Training and Doctrine Command, Army Capabilities and Integration Center; James Shields, Program Executive Officer, Ammunition and Brig. Gen. Patrick Burden, Deputy Program Executive Officer and Senior Commander of the Joint Center of Excellence for Guns and Ammunition, Picatinny Arsenal.

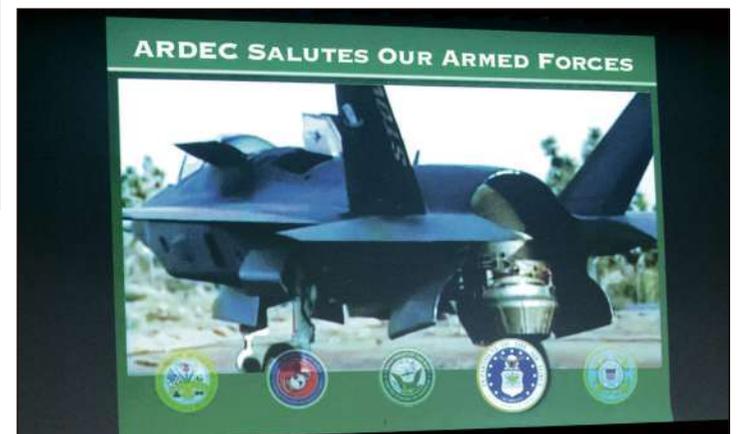
Participants on Day 2 attended sessions ranging from Munitions and Directed Energy, Weapons and Fire Control and Multi-Role Armaments Systems. They also engaged in one-on-one sessions with government subject matter experts.

"This was an unprecedented collaboration event setting the stage for a great year of armaments innovation. A new benchmark has been achieved," said Charles Zisette, Executive Director, National Armaments Consortium.

The U.S. Army Armament Research, Development and Engineering Center is part of the U.S. Army Research, Development and Engineering Command, whose mission is to provide innovative research, development and engineering to produce capabilities that provide decisive overmatch to the Army against the complexities of the current and future operating environments in support of the joint warfighter and the nation.



ABOVE: Ms. Kristin French, Principal Deputy Assistant Secretary of Defense and the Acting Assistant Secretary of Defense, Logistics and Material Readiness, addressed the group on the topic of Perspectives from the Office of the Secretary of Defense. BELOW: Lt. Gen. Michael Williamson, Principal Military Deputy, Assistant Secretary of the Army, Acquisition, Logistics and Technology



# With lessons on cooking chemistry, Picatinny stirs kindergarteners into STEM

BY CASSANDRA MAINIERO

Picatinny Arsenal Public Affairs

Stirring chocolate powder and milk, 13 kindergarteners learned how cooking and chemistry work together during a STEM event at Picatinny Arsenal on Nov. 1.

This marked the first time that STEM outreach included the Arsenal's kindergarteners.

The class is part of the Arsenal's Child Youth Services-School Age Services program.

The Science Technology Engineering and Mathematics, or STEM, Outreach Office is a group found within the U.S. Army Armament Research, Development Engineer Center, or ARDEC, one of the largest organizations at Picatinny.

The STEM Office focuses on promoting careers in science, technology, engineering and mathematics by developing STEM educational resources and assisting local schools and teachers.

Picatinny's STEM Office often works with local middle schools and high schools in educational events, such as solar races, 3-D printing classes, summer STEM programs and various robotics competitions.

But this "Chemistry and Cooking" event was the first STEM event for the Arsenal's kindergarten class.

"When we talk about STEM,

**"When we talk about STEM, we want to be able to say that it's everywhere."**

we want to be able to say that it's everywhere. It's in everything that we do, touch, and experience—from your iPhone to what's in a box of cereal—there's some STEM involved," said Douglas Wong, a systems engineer from ARDEC.

Wong has been part of the Picatinny's STEM Education Outreach Office for almost eight years.

The focus was on mixtures—what a mixture means, how to create them, how heat affects a mixture, what's an emulsifier, and why some items mix well together, but others don't.

It was taught by Douglas Wong and Shauna Dorsey, an ARDEC scientist, who started the lesson by asking the class what they think scientists do, as well as what science and chemistry mean.

"A scientist asks questions," said a young girl, waving her hand in air. "They figure things out!"

"Science means you make things like solar systems or volcanoes," added another girl.



Photos by Erin Usawicz

"Chemistry means you put chemicals in things," replied a boy, smiling at his answer.

During the event, students had a hands-on opportunities to mix chocolate powder and milk to learn how chocolate milk is a mixture.

They also were encouraged to shake mason jars of different mixtures, such as salt with water, dye and water, or beans with water, to learn about the visual difference between a homogeneous (a consistent) versus a heterogeneous (a diverse) mixture.

## MACARONI CHEMISTRY

However, the main experiment focused on helping Wong make homemade macaroni and cheese, and showing students how chemistry applies to the process, such as how hot water can soften pasta or how eggs and evaporated milk can help to melt cheddar cheese.

Circling around the bowl as Wong mixed the ingredients, there were a series of "oohs" and "aahs" from the students.

Meanwhile, Dorsey asked students to help her list the ingredients involved in the mixture, such as cheese, pasta, and milk.

"The biggest perspective I've learned is not taking anything for granted," said Wong as he



shared the lessons he's learned from working with kids in STEM.

"Kids these days—my head explodes. They're learning how to code at five-years-old. The only code that I knew about when I was five, was a secret ring in a cereal box. But, they're actually on a computer, creating applications. It's incredible. It's so surprising."

The students ended their

lesson by eating their mac and cheese and drinking their chocolate milk as Wong and Dorsey took questions from the students.

"For us, this kind of event means that our students get that extra lesson in inquiry based learning and hands-on experiments," said Taryn Gray, the kindergarten lead teacher.

"So, having ARDEC employees come to visit is a great experience for them."

# As threats grow, hackers may have place in the Army

Army News Service

ARLINGTON, Va. -- Cyber professionals are often capable of doing much, much more than what the law allows. In their private-sector jobs, they've got to be on the right side of the law if they don't want to end up in a prison cell.

But those same skilled cyber professionals may be able to cut loose if they were in the Army.

In fact, that potential for greater freedom in cyberspace might entice some of those professionals to don a uniform and practice their craft safely inside the Army tent.

It may also serve as an enticement for cyber professionals who are already serving in the Army to stay in the Army, the Army's vice chief of staff said.

"The good news is, for our cyber professionals, they can do things in defense of our nation that they would get arrested for in the outside world," said Vice Chief of Staff of the Army Gen. Daniel B. Allyn Thursday, while speaking at a cyber forum at the Association of the U.S. Army headquarters.

"That's very attractive to those who are very, very skilled and committed to the security of our country. And for that, we are thankful for both their skill and, just as importantly, for their desire to continue to serve and protect our country."

The Army is currently in the midst of growing its cyber force of commissioned officers, noncommissioned officers, and warrant officers to defend the Army

network and apply effects against adversary networks, if need be.

The Army has its own cyber branch now, career field 17, for cyber professionals, and a schoolhouse as well at Fort Gordon, Georgia. Right now the branch has 397 officers, 141 warrant officers and 560 enlisted Soldiers in its ranks, Allyn said.

"Army is on track fielding our cyber mission force, from 41 teams today, to eventually a full fill of 62 total force teams," Allyn said.

The Army's Cyber School stood up in 2014. This year, 21 officers graduated. The Army is on track to beat that number next year, Allyn said.

In March 2017, enlisted Soldiers will for the first time attend Army Advanced Individual Training for cyber.

Also in March, Army-developed AIT to defend the network will begin at Fort Gordon, Georgia. Allyn said he expects an initial 300 Soldiers to graduate from that course.

Attracting and retaining cyber talent remains a concern for the Army, Allyn said. It's not just Army networks that need to be protected -- commercial networks require protection as well -- and the Army must compete with the private



As the Army grows and develops its own cyber branch, it's looking for ways to both attract the best talent, and to keep that talent on board with the Army, in the face of stiff competition with the private sector job market. Photo illustration by Peggy Frierson.

sector to attract the best cyber talent.

One way to make Army cyber more attractive, Allyn said, is through lateral accessions, a strategy used in other career fields in the Army to compete with the private sector, like medical -- where officers can be brought in at a higher rank and higher pay.

"The ability to laterally access skilled professionals is something we do already in the Army in some of our skills," Allyn said. "But we have recognized that this

has applicability in specialty fields like cyber. And that is being matured and developed as an option for the chief and the secretary."

Allyn said the possibility of lateral accessions for cyber was considered as part of the Army's "Force of the Future" analysis conducted last year.

"Not only will we have to apply new accessions tools, but we are going to have to consider, 'How do you retain this incredible talent?'" he said.



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# Picatinny honors National Disability Employment Awareness Month

BY CASSANDRA MAINIERO  
Picatinny Arsenal Public Affairs

Although the term “therapy dog” may elicit images of faithful golden retrievers and doe-eyed beagles, Koby and Reina prove that Doberman Pinschers have a gentle side too.

This attitude is particularly evident with combat veterans suffering from post-traumatic stress disorder, one of the invisible disabilities mentioned during National Disability Employment Awareness Month.

National Disability Awareness Month is an annual observance that recognizes the contributions that American workers with disabilities make every day.

The celebration was approved in 1945 by President Harry S. Truman, who initially declared the first week of October as

“National Employ the Physically Handicapped Week.”

Throughout the years, though, the word ‘physically’ was removed to include all individuals with different types of disabilities. It is overseen by the U.S. Department of Labor’s Office of Disability Employment Policy.

This year’s theme is #InclusionWorks, which focuses on understanding invisible disabilities, such as post-traumatic stress disorder, or PTSD, anxiety, depression, or brain injuries.

These disabilities are known as ‘invisible’ because they’re not readily observable.

To celebrate the observance, Picatinny Arsenal held a speaking event on Oct. 31 at the arsenal’s Lindner Conference Center. The event was sponsored by the Picatinny Garrison Commander

Lt. Col. Jeffery E. Ivey and was organized by the arsenal’s Equal Employment Opportunity Office. It was planned with the American Legion/Auxillary Post 244, a veteran’s organization.

The keynote speakers were Elaine Werner and Retired Lt. Col. William “Bud” Werner, who were accompanied by their therapy dogs, Koby and Reina.

Elaine is a retired social worker and former supervisor at a hospital detox unit.

William is a retired Army lieutenant colonel and works as a training and organizational development professional.

“Service dogs are not to be petted and work for their handler when they’re out in public,” said Elaine, who started the event by describing the major difference between service and therapy dogs.

“When we are out in public with our therapy dogs, they’re helping whoever we are with. They’re not doing anything for us. They are to be petted. That’s their job.”

Unlike service dogs that are trained to fulfill a specific role, such as a being a guide for someone with vision impairment, a therapy dog provides emotional support.

This support occurs when one pets and plays with a dog, which can help to reduce one’s blood pressure, release tension, lower anxiety, and ultimately improve one’s loneliness and depression.

In addition, service dogs can go anywhere that the general public is allowed.

However, therapy dogs are not allowed everywhere.

Instead, therapy dogs are mostly found in locations such



Elaine Werner and Retired Lt. Col. William “Bud” Werner were keynote speakers at the National Disability Employment Awareness Month event at Picatinny Arsenal on Oct. 31. They were accompanied by their therapy dogs, Koby and Reina. Photo by Todd Mozes.

**“Everything seemed to be an issue. My son crying seemed to trigger memories of traumatic events that I had to deal with while deployed.”**

as hospitals, retirement homes, hospice, nursing homes, and disasters areas.

One such place is The Lyons Campus of the New Jersey Veterans Affairs Health Care System’s Behavioral Health Unit, where Koby and Reina regularly visit patients in the PTSD unit as well as the women’s unit.

Each Doberman visits approximately 20-30 patients each time, often resting their head on patients and allowing patients to pet them.

Koby and Reina have visited the hospital more than 3,500 times.

“In all of the units, we’ve received very positive feedback for bringing the dogs,” said Elaine.

“Some of the symptoms that they share with us as they interact with the dogs is that they suffer not only from PTSD but also traumatic brain injuries. They all had reoccurring nightmares and flashbacks, emotional numbing, no sense of the future, angry outbursts, hypervigilance, difficulty concentrating, easily startled, and survivor’s guilt. And what they also share is that it not only affects them, but their families.”

During the event, the Werners explained not only how to certify a therapy dog, but also some personal anecdotes about working with veterans and therapy dogs.

One of these stories included reading a letter from a 35-year-old veteran, who served in combat theaters in both Iraq and

Afghanistan from 2004 to 2010.

“When I first returned home, I was not aware that I was not dealing with the issues that I had, though my loved ones did,” Elaine said, reading the veteran’s letter. “I was not able to see that certain triggers had become such a critical issue within my day-to-day life.”

“Everything seemed to be an issue. My son crying seemed to trigger memories of traumatic events that I had to deal with while deployed.

“A slamming a door in my house or dish slamming in the sink would keep me awake during all hours of the night. It was because of times such as these that I finally decide to start looking at what options were available to help bring me some sort of calm as well as happiness.”

“When I first met Koby, he seemed to take away every feeling of stress and tension that I had,” Werner continued reading.

“Something as simple as petting him or getting a loving lick made a world of difference. It was something that I had not felt in such a long time because all my social interactions meant dealing with anxiety and isolation, which had become a scary reality in my life,” Elaine read.

“I still has issues trying to go places that are overpopulated due to my hypervigilance and anxiety, whether it is grocery shopping or doing something for my son. But, needless to say, if I had a therapy dog, my feelings would not be as extreme.”

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