

MARCH 21, 2013

A Space & Missile Defense NewsWire

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Missile Defense Soldiers conduct security training



Photo by Sgt. Benjamin Crane

Staff Sgt. Kristine Bombard plays the part of the loud villager trying to distract 1st Lt. Kurtiss Clark while he pulls security in the Military Operations on Urban Terrain village on Fort Carson, Colo., during the unit's field training exercise March 8. See story on Page 3.



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U.S. Army Space and Missile Defense Command/Army Forces Strategic Command publishes the Eagle bi-weekly as a digital newswire. The newswire is an authorized publication of the USASMDC/ARSTRAT in accordance with AR 360-1. The SMDC commanding general has directed that the publication of this periodical is necessary in the transaction of the public business as required by law. The views and opinions expressed in the Eagle are not necessarily those of the Department of the Army or SMDC. The Eagle is intended to inform members of the command on happenings within the Army space and missile defense community. Distribution is made to the service members, civilians and contractors, and to the general public.

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Courtesy photo

Members of Delta Company, 53rd Signal Battalion (SATCON), came out to congratulate four of their fellow satellite control operators as they successfully completed the most recent Warrior Leader Course at the Noncommissioned Officer Academy, Schofield Barracks – East Range, Hawaii, March 14. Soldiers and Family Members from the company attended the graduation for Sgt. David Shook, Spc. Rene Plascencia, Spc. Michael Nunez and Spc. Mark Proctor. Seen here are Shook, left, and Plascencia who exceeded WLC standards and made the Commandant's List. WLC is a month-long course that teaches specialists and corporals the basic skills to lead small groups of Soldiers. This course is hard hitting and intensive with emphasis on leadership skills and prepares Soldiers to advance to the rank of sergeant.

Softball announcement

Several SMDC employees would like to establish a softball team of command employees and their families in Huntsville to compete in games in the local area. If interested, e-mail Jason.E.Bradshaw2.civ@mail.mil or Jason.C.Thompson60.ctr@mail.mil.

Missile defenders practice Soldier skills

By Sgt. Benjamin Crane
100th Missile Defense Bde.

FORT CARSON, Colo. – Soldiers in the 100th Missile Defense Brigade (Ground-based Midcourse Defense) honed their Soldiering skills during the brigade’s field training exercises March 4-8.

Headquarters Battery organized the five-day event that started with a refresher land navigation course, followed by shooting the 9mm pistol, throwing hand grenades, and on the last day, doing a presence patrol through a village.

This type of training is not presented to the brigade often, but when offered the Soldiers are eager to participate.

“Any instance for ‘opportunity training’ in a field environment only enhances and reinforces previously taught tasks,” said Capt. Ronald Bailey, Headquarters and Headquarters Battery commander and organizer of the FTX. “Classroom training really only satisfies the ‘crawl’ phase of training progression where field training moves it up into the ‘walk/run’ phase. Soldiers gain confidence in their proficiency on the tasks under additional environmental stresses.”

During the land navigation portion, Soldiers used maps and compasses, as well as terrain association to find their five points. Some of the Soldiers had not used these skills



Photo by Sgt. Benjamin Crane

Soldiers of the 100th Missile Defense Brigade try their hands at throwing dummy grenades at the range on Fort Carson during the unit’s field training exercises March 7.

since they were in basic training or at a leader development school.

On the second day of training, the Soldiers went inside to the engagement skills trainer (EST2000), a simulation range with life-like 9mm pistols that use laser sensors as the bullets.

The simulation allows Soldiers to get the feel of the weapon and practice loading and unloading it, and it can even simulate a night environment to shoot in.

After completing EST2000, the Soldiers did some live shooting on the 9mm qualification range. This is something the unit does yearly.

On the fourth day of the exercise, the Soldiers threw dummy grenades at the hand grenade range. The range allowed the Soldiers to get the feel of what it’s like to hold a grenade in their hand, pull the pin and hurl the body toward several targets. There

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Chronister inducted into hall of fame

By Carrie E. David
SMDC Public Affairs

REDSTONE ARSENAL, Ala. - The U.S. Army Space and Missile Defense Command/Army Forces Strategic Command's deputy to the commander was inducted into the Alabama Engineering Hall of Fame Feb. 23 in Birmingham.

Ronald E. Chronister, who has served at SMDC since August, learned of his nomination the same month.

"At first I thought it was a prank call, but when I was convinced it wasn't, I was deeply humbled and honored," Chronister said. "Not only for the recognition, but also because of who nominated me."

Chronister was nominated by Dr. Judy Bonner, president of the University of Alabama, and Dr. Chuck Karr, dean of engineering at Alabama.

"These are two people I have the highest regard for, both professionally and personally, and they are



Ronald E. Chronister

both from the University of Alabama, my alma mater," he said.

The Engineering Hall of Fame was founded in 1987 to honor, preserve, and perpetuate the outstanding accomplishments and contributions of individuals, projects and corporations/institutions that have brought and continue to bring significant recognition to Alabama.

Nominations are made by the members of the Engineering Hall of Fame Nominating Committee, and nominees must have a significant tie to Alabama.

"I'm an Army brat," Chronister said. "My parents retired in Rogersville, which is my mother's home town, in 1975 after my father retired. Except for college and one year in Arkansas, I have lived in the North Alabama area since that time."

According to the Engineering Hall of Fame website, inductees, individually and collectively, "have made and continue to make significant contributions to the advancement of engineering and technology, leading to an enhanced economic, cultural, and political future for the state and nation."

Also being inducted in the individual category are: Larry D. Benefield, James H. Carroll Jr., James Hoskins, John S. Richardson, D.W. (Don) Vaughn, and D. Dale York. Hargrove Engineers +Constructors is being inducted in the corporation category, and in the project category are 25 Megawatt Carbon Capture and Storage Demonstration and Talladega Superspeedway.

Space company commander



Photo by Staff Sgt. Stephanie Johnson

First Sgt. Vanessa Frederick salutes Maj. Zachary Conly, incoming commander of the 3rd Space Company, 1st Space Battalion, 1st Space Brigade, March 10 at the Space and Missile Defense Command/Army Forces Strategic Command headquarters for operations at Peterson Air Force Base, Colo. The gathering was part of a change of command for the 3rd Space Company between Conly and outgoing commander Maj. Siegfried Ullrich. Reserve component forces make up the 3rd Space Company, which like its sister unit 2nd Space Company, provides space-based capabilities in the form of Army space support teams. The 3rd Space Company has been part of the 1st Space Battalion since 2007.

Women engineers blaze path

By DJ Montoya
SMDC Public Affairs

PETERSON AIR FORCE BASE, Colo. – Four women working within U.S. Army Space and Missile Defense Command/Army Forces Strategic Command gave valuable insight into their struggles and triumphs of achieving one of the following disciplines: science, technology, engineering, and mathematics, during the 2013 Women’s History Month observance March 14.

This event took place in the training rooms of SMDC/ARSTRAT Operations headquarters Building 3 before a group of women and men. Robert Howard, SMDC Operations Equal Employment Opportunity manager, opened the lunch-time program stating that this year’s theme was ‘Women Inspiring Innovation Through Imagination: Celebrating Women in science, technology, engineering and mathematics.

After opening remarks, four women within the command locally (three contractors and one government civilian) addressed the audience giving a retrospect of how they achieved their current job position.

“Today, women are earning about 17 percent to 18 percent of the bachelor degree’s in science, technology, engineering, and mathematics,” said Joan E. Rousseau, tactical space operation course manager, SMDC Future Warfare Center, Directorate of Training and Doctrine, Space Training Division.

“Where are the women? They are going into the career fields of



Photo by DJ Montoya

Members of SMDC/ARSTRAT Operations headquarters on PAFB applaud four women working within U.S. Army Space and Missile Defense Command / Army Forces Strategic Command who gave valuable insight into their struggles and triumphs of achieving one of the following disciplines: science, technology, engineering, and mathematics, during the 2013 Women’s History Month Observance on March 14 at the operations headquarters on PAFB. Seen here from L to R are: Joan Rousseau, SMDC/FWC-DOTD; Mary Spohn, contractor, Quantum; Jessica Schafer, contractor, Femme Comp Inc.; and Noemi Wikstrom, contractor, Femme Comp Inc.

physical science. Fifty-eight percent are earning master’s, bachelor’s, and doctorate’s in biology. With exception very few of those women are making the amount of pay as their male counterparts. You are seeing more and more women with STEM backgrounds in the military basically because it is equal pay for equal work. We still don’t make the same amount in the civilian sector outside of government service as our male counterparts.

“The point I’m trying to get across here is that we run the gamut within our organization. Within Space and Missile Defense Command not everybody you meet is going to be an engineer. You are going to meet a mix. You take the people with the skills and knowledge and the ability

to learn and you place them where they can be most effective.”

Mary E. Spohn, a contractor software engineer with Quantum on task to the SMDC Battle Lab, highlighted her top 10 rules – lessons she has learned in her life.

“Rule number six: never stop learning,” said Spohn.

“Science and technology move extremely quickly. You really cannot stop getting qualified, taking classes, and keeping up with what is going on. It is an on-going process in the technology core field.”

Her number three lesson was to act with integrity.

“Always be honest and always be professional,” Spohn said. “In this

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SMDC History: the 1997 Helsinki summit

Sharon Watkins Lang
SMDC Command Historian

The 1972 Anti-Ballistic Missile Treaty is immediately associated with the deployment and subsequent deactivation of the Stanley R. Mickelsen Safeguard Complex in North Dakota.

The treaty actually remained in effect for another 30 years influencing the development of national missile defense concepts from the Low Altitude Defense to the Strategic Defense Initiative and the Ground-based Mid-course Defense.

Until the 1980s, missile defense programs focused upon the threat posed by intercontinental ballistic missiles. With the evolution of technology and the proliferation of shorter range missiles, a new category of theater missile defense was introduced. As these systems and their capabilities developed in the next decade a new issue arose. How do you define the limits of theater missile defense versus national missile defense? Or more specifically at which point does a TMD system become an antiballistic missile system covered by the treaty?

The issue was first raised in 1994 but repeated efforts produced few results. And the ABM/TMD Demarcation was again on the agenda as President William Clinton and Russian President Boris Yeltsin met in Helsinki, Finland, for a two-day summit March 20-21, 1997.

Previous negotiations had recognized the option for both the United States and Russia to deploy effective TMD systems in number and geographic scope consistent with the number of systems confronting them, provided they did not violate or circumvent the ABM Treaty.

In addition these systems were not to be used to counter an ABM threat or be tested in an ABM mode. The Standing Consultative Commission had also successfully completed negotiations to define the boundaries of lower speed TMD systems – those that operated at interceptor speeds of less than 3 km/sec.

An announcement on March 21, 1997, focused upon high velocity TMD systems to include the Theater High Altitude Area Defense, or THAAD, system. After reaffirming the May 1995 Joint Statement, which set the basis for the TMD demarcation, the presidents instructed their experts to complete an agreement on higher-velocity TMD systems. In this “Joint US-Russian statement on ABM Treaty,” the presidents specifically noted that



File photo

United States President William J. Clinton, right, and Russian President Boris Yeltsin met in Helsinki, Finland, in March 1997 to discuss missile defense issues.

neither side had plans to flight test this type of interceptor against a ballistic missile target before April 1999.

They also agreed that neither side planned to developed land or air-based TMD systems that would exceed 5.5 km/sec or sea-based interceptors more than 4.5 km/sec. Finally the TMD systems would not be tested against targets with MIRVs or against re-entry vehicles deployed on strategic ballistic missiles.

While not all aspects were addressed, the agreed parameters for the higher velocity TMD systems were four-fold. Formalized in protocols signed in Sept. 1997, the agreement specified that the ballistic target missiles could not exceed a velocity of 5 km/sec or a flight range of 3,500 km.

The development, testing and deployment of space-based TMD interceptors were prohibited, as well as any “alternative technologies” that could substitute for a space-based TMD. They concluded with an agreement to extend the annual exchange to include detailed information on TMD plans and programs, which would also provide opportunities for potential cooperation in the TMD area.

Ultimately, none of the parameters used to define TMD would restrict the six American systems under development by the Pentagon.

Command Safety Gram:

Follow the Formula for Chemical Safety

Splashing a small amount of a chemical onto skin can cause death within minutes as it is absorbed into your bloodstream. Inhaling a chemical can cause permanent damage to throat and lungs. Exposure to a chemical day-after-day can result in cancer developing years later. A spilled chemical ignited by a cutting torch can result in a devastating explosion.

These are just some of the things that can go wrong where chemicals are used or stored.

However, accidents can be prevented by proper training, careful attention to safe work practices and correct use of Personal Protective Equipment. When in doubt about a chemical, always ask a supervisor for advice.

Remember these guidelines when working around chemicals:

- Learn about the hazardous chemicals in your work area. Read the labels on chemical containers, and read the Material Safety Data Sheet. Get acquainted with the hazards and precautions before using, handling, or storing any chemical. Take training on the chemicals in your workplace and learn the new Globally Harmonized System of Classification and Labeling of Chemicals.
- Wear the right protective clothing and equipment. PPE must be made of the right material to guard against the particular chemical hazard.
- Use PPE correctly. Examine it before each wearing for any defects such as rips or tears. It must fit



properly and be comfortable enough so that it will be worn as needed. Fasten it correctly.

- Clean the PPE, where appropriate, after each use.
- Remove and dispose of contaminated clothing according to instructions. Unfasten the clothing with gloves on, and remove clothing from the top down. Keep contaminated clothing away from street clothes and separate from family laundry. Do not use contaminated clothing or equipment again until it has been cleaned properly.
- Keep work area clean and orderly to prevent chemical accidents.
- Do not keep more chemicals in your area than needed — only the amount required for the job.
- Chemicals must be kept in

approved, properly labeled, and covered containers. Keep these containers closed when not in use.

- Provide the required ventilation and temperature for areas where chemicals are handled or stored.
- Keep sources of ignition away from chemicals that are being used or stored.
- Know what to do in case of a spill emergency. If you are authorized and qualified to clean up the spill, do so promptly. Otherwise, follow the emergency procedures that may include alerting emergency crews, evacuating the area and removing ignition sources.

- Know what to do in case of chemical exposure. Call for medical help immediately. If the eyes or skin have been contacted by the chemical, flush with water for at least 20 minutes. If someone has inhaled chemicals, move him to fresh air immediately and administer rescue breathing if necessary. If someone has swallowed chemicals, follow the first aid instructions on the MSDS.

Make sure you understand the hazards of any chemicals you may be exposed to. Follow all safety precautions to the letter, to protect yourself and others.



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were six lanes set up that required the thrower to use several stances, techniques and approaches.

Throwing grenades is a rare opportunity for most Soldiers, particularly ones who will not ever deal with them in missile defense.

The last day of training combined several basic skills a Soldier is required to have: lead troops, shoot, and deal with issues and people on the battlefield.

The Soldiers' mission was to conduct a presence patrol through a Military Operations on Urban Terrain, or MOUT, village where there were known snipers. The Soldiers broke off into teams and the ones that were not patrolling the village, acted as the villagers. Some were armed with paintball guns; others just made noise or tried to sell things to those on patrol.

"This allowed the Soldiers to get out of their offices and away from the normal staff/crew grind," said 1st Sgt. Robert Cunningham, HHB first sergeant and one of the organizers of the event. "Soldiers experienced what it means to work as a team away from an office or conference table."

The camaraderie and teamwork that was built made for an enjoyable time for the Soldiers involved, said Staff Sgt. Kristine Bombard, brigade supply noncommissioned officer in charge.

"My favorite part of the FTX was participating in Range 60 [village]," said Bombard, who spent most of her day screaming, "bad man," at the teams patrolling the village. "Being able to take all of the elements of Army Warrior Tasks and Drills and applying them altogether on the MOUT site like we will do in



Photos by Sgt. Benjamin Crane

Sgt. Marcus Bell, 100th Missile Defense Brigade, tosses his dummy grenade toward the target at the grenade range on Fort Carson, Colo., during the unit's field training exercises March 7.

combat is always fun and exciting. It builds so much camaraderie among the unit; it really gives us a lot to laugh about later on."

After the unit's objectives were met on the last day, the Soldiers played capture the flag using the village as their course.

Paintballs flew and Soldiers ran as they each tried to defend their team's flag.

"The events went well. The Soldiers learned and had fun at the same time," Cunningham said.

This type of training is something that the unit's leaders intend to build on and do more often.

"Not only is there a great desire by the Soldiers and leadership within the brigade headquarters for more training of this nature, HHB is planning for an August 2013 FTX that expands further the fidelity and quality of the training," Bailey said.

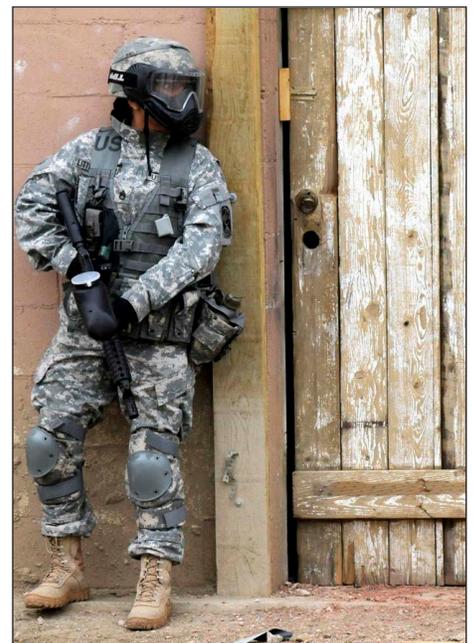


Photo by Sgt. Benjamin Crane

Staff Sgt. Cindy Littlefeather, 100th Missile Defense Brigade, posts against a wall and watches for enemies as her team moves through the Military Operations on Urban Terrain, or MOUT, village on Fort Carson, Colo., during the unit's field training exercise March 8.

Welcome home



Photo by DJ Montoya

Soldiers of 1st Space Battalion, 4th Space Company, Detachment 3 in Colorado Springs, Colo., celebrate at a welcome home ceremony March 5 after their recent overseas deployment from mid-June through the end of February.

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environment, it is easy to do because in this military environment people are extremely professional. I've worked a lot in the commercial world as well, and it is not always like that. I want to emphasize that people do notice when you do your best and you act on your best behavior."

Spohn closed her remarks with the number one rule of supporting other women.

"We are all here together," Spohn said. "We are all here struggling against the same challenges. One thing I try to do is be supportive of the other women around me."

According to Jessica H. Schafer, a contractor systems engineer with Femme Comp Inc., SMDC G-6 Satellite Communication Division, the path of a woman becoming an engineer "has never been easy."

"I have enjoyed overcoming some challenges. But I've also struggled in confronting some other challenges along the way. My dad was my inspiration in becoming an aerospace engineer. Looking back, I wish he would

have prepared me for the vast gender imbalance of engineers, but he didn't."

"My hope is that my generation of female engineers becomes the new mentors for the next generation and that our struggles do not become their struggles. I hope that opportunity is there regardless of gender and will leave no young or new female scientists, mathematician or engineer, in the dark about the amazing magnitude of opportunity available to her."

The last woman to speak was Noemi "Amy" R. Wikstrom, system engineer, Femme Comp Inc., SMDC G-6 SATCOM Division, who said, "I believe that we have to seize the opportunity to make a difference, to encourage, to inspire, to foster science and mathematics to our children, regardless of gender."

"It is our responsibility to leave behind cultural bias and give them the opportunity to strive. I encourage anyone who will listen to never settle, to reach inside, and to move forward. Nothing that is worth having in this life is easy, but when you get it – man it feels great."

Deadline for comments and submissions for the April 4 issue is March 29.

Please submit to Jason B. Cutshaw at Jason.B.Cutshaw.civ@mail.mil.

Feeding the force



Courtesy photo

Family Readiness Group volunteers of Charlie Company, 53rd Signal Battalion (SATCON), serve a meal at the USO Warrior Center, Landstuhl Regional Medical Center, Feb. 20 as part of an opportunity to take care of Wounded Warriors. Ten FRG volunteers prepared, as well as served, the meal, which was part of a chili cook-off. Service members from all branches undergoing treatment at LRMC were the honored guests. Soldiers from Charlie Company also took the opportunity to engage the service members in conversation and even a friendly game of checkers. USO Warrior Center coordinators shared with the FRG volunteers comments about the evening from the Wounded Warriors, which ranged from 'Thank you all for the feast tonight' to 'I loved everything about it.'

Force developer retires after 44 years



Photo by Carrie E. David

Col. Victoria Miralda, director, Directorate of Capability Development, and Dr. Jack Tomkovich, director, operations division, right, present a plaque to Thomas Mack, chief, Force Development Division, and his wife, Jane, during Mack's retirement at the U.S. Army Space and Missile Defense Command/Army Forces Strategic Command's Redstone Arsenal headquarters March 20. Mack retires with 44 years of federal service - 20 years in the Army and 24 years as a federal civilian.

Hail and farewell



Photo by Dottie White

Lt. Gen. Richard P. Formica, commanding general, U.S. Army Space and Missile Defense Command/Army Forces Strategic Command, comments on Command Sgt. Maj. Larry S. Turner's career during a command hail and farewell March 16 in Huntsville, Ala. Turner will soon be leaving the command for Fort Bragg, N.C.

SMDC supports AER



Photo by Jason B. Cutshaw
 From left, Ronald E. Chronister, deputy to the commander, U.S. Army Space and Missile Defense Command/Army Forces Strategic Command; Col. Lester J. Campbell, USASMDC/ARSTRAT G-8; and SMDC Command Sgt. Maj. Larry S. Turner, right, judge entries for the command's 4th annual Chili Cook-off at SMDC's Redstone Arsenal headquarters March 18. The event raised more than \$580 for Army Emergency Relief. It was also an opportunity for SMDC team members to showcase their cooking talents to coworkers in the command.

Former astronaut speaks out



Photo by Carrie E. David

Former astronaut Jan Davis, vice president and deputy general manager of Jacobs Engineering and Science Services and Skills Augmentation Group, speaks to U.S. Army Space and Missile Defense Command/Army Forces Strategic Command employees during the command's Women's History Month celebration at SMDC's Redstone Arsenal headquarters March 12. On the screen in the background is a photo of Davis taken during the time that she served as an astronaut.

SMDC supports deployed troops



Photo by Carrie E. David

Pam Stevens, telecommunications production specialist, left, and KC Bertling, Soldiers and Family program manager, pack care packages March 19 for U.S. Army Space and Missile Defense Command/Army Forces Strategic Command deployed Soldiers as part of the command's Family Focus Group. To donate items or suggest recipients, e-mail Kum.C.Bertling.civ@mail.mil.