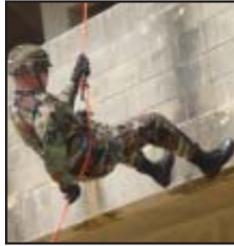


Inside The Eagle



49th Missile
Defense Battalion
gets new leader,
page 5



Soldiers conduct
training while
performing real
world mission,
page 6



Summer
safety tips,
pages 12-13

The Eagle

U.S. Army Space and Missile Defense Command/U.S. Army Forces Strategic Command

Volume 13, Number 6, June 2006

Stipe change of command at USAKA is July 11

By LuAnne Fantasia
SMDC/ARSTRAT Public Affairs

After two years as commander of an Army installation in the middle of the Pacific Ocean that saw major logistical and operational changes, Col. Beverly Stipe said she thoroughly enjoyed being responsible for an organization and a community that wanted to see things change as much as she did.

"I wouldn't give back one minute of one day. I thoroughly enjoyed every moment, and I cherished every opportunity I had to interact with the staffs, community and the Marshallese people," Stipe said, while making her good-bye visit in Huntsville, Ala., recently.

Stipe leaves Kwajalein — the three-mile island roughly halfway between Honolulu and Guam — for a Pentagon staff job after her change of command July 11. The U.S. Army Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site's primary missions are intercontinental ballistic missile testing, new foreign launch tracking, and space-object identification.

The USAKA workforce and community is comprised of approximately 3,400 American and Marshallese employees and family members on Kwajalein, Meck and Roi-Namur islands.

"It was tough being 7,000 miles from our higher headquarters, but at the same time, it was reassuring that my supervisors allowed me to lead unconditionally," she said.

"Their trust in us was evident." The Kwajalein Support Directorate at Redstone Arsenal, Ala., lead by Army Lt. Col. Bill Whitney, serves as an extension of the Reagan Test Site (Range) program, facilitating staff coordination, resource management and logistical support.

During her two-year tenure as USAKA commander, Stipe's staff and members of the lead contractor, Kwajalein Range Systems, or KRS, hosted more than 30 senators and staff members for congressional delegation, or CODEL, visits.

"Each visit was specifically tailored to the individual or



Col. Beverly Stipe

Photo by LuAnne Fantasia

group visiting, and they left Kwajalein with an important appreciation for the critical missions conducted on a routine basis for the nation," Stipe said.

Although security measures preclude USAKA/RTS missions from high visibility, "... we actually have developed an operational link to the combatant commanders, through satellite and intelligence data gathering, and space situational awareness," she explained.

Situated in the one of the most corrosive environments in the world, the island infrastructure suffers. Some members of the workforce and community still reside in 1960s era trailers. Many of the 1950s era concrete buildings are failing as the unprotected rebar rusts and expands, breaking concrete away from the structure.

Stipe explained that Kwajalein is considered a "special" installation, therefore not funded by the Installation Management Agency. The majority of operational funds are allocated through Research, Development, Test and Evaluation money, and efforts to cut costs or LEAN expensive programs are ongoing.

She said that a total savings of more than \$13 million in a two-year period are pumped back into projects where the infrastructure is failing. This small city with big infrastructure includes international airport and harbor operations; typical power, water and sewer operations; and facility management of 11 leased Marshallese islands within the Kwajalein

Atoll, many of which support optics, telemetry or radar technology.

To establish a cost baseline, Stipe said an independent assessment team visited Kwajalein about 20 months ago, to calculate how much it actually costs to conduct operations on this major range and test facility base.

"The team attempted to determine the most fiscally responsive way for USAKA to operate and gave us several options."

Reducing the footprint

One option includes building an undersea fiber optic cable — from Kwajalein to Guam with a direct link to the Mainland — that will enable USAKA to distribute some mission operations and positions back to Huntsville.

The cable project, with a target completion date of March

2008, is a natural extension to the Kwajalein Modernization and Remoting, or KMAR, program started in 2000. KMAR included building an inter-atoll fiber system linking all 11 operational islands, and incorporating a technology upgrade of the on-island radars, and is progressively part of the ROSA concept [Radar Open Systems Architecture] that standardizes back-end electronics of the radar suite on Roi-Namur. As the first move in this direction three years ago, the radars underwent major upgrades. Two years ago, control of the radars from Roi-Namur was remoted to Kwajalein at RTS's range.

"ROSA has improved system reliability and reduced maintenance and labor costs and is being significantly adapted by

See *Stipe* on page 3



Photo by Nell M. Drumheller

Live-fire training on Meck Island

Sgt. Michael Knight, left, supports Cpl. Dennison Muczynski, in a live fire of a Stinger missile May 25. The 1st Stinger Battery Marines arrived on Kwajalein, Republic of the Marshall Islands, May 22; trained on Meck Island May 24-25; and departed May 27. (See story on page 8)

The Command Corner



Lt. Gen. Larry J. Dodgen
Commanding General



CSM David L. Lady
Command Sergeant Major

Optimizing capabilities in support of joint warfighters is vital, especially during a time of war. Wargames, experiments and simulations are used to continuously enhance combat readiness, assess the integration and performance of systems, and optimize employment of military forces. The U.S. Army Space and Missile Defense Command/Army Forces Strategic Command is deeply committed to the value of wargames, experiments and simulations in support of joint warfighters and demonstrates its commitment through an integrated approach to these vital areas.

Wargames are used to shape and refine the vision of future warfighting. This vision is then matured into concepts that form the basis of near to mid-term experimentation. Experiments are focused on near to mid-term solutions and are conducted to evaluate future concepts and prototype capabilities. New capabilities, including space-based blue force tracking, high altitude long loiter systems, integration of Army Space Support Elements, and dissemination of ballistic missile warning data, have been developed, assessed and refined through experimentation. Once validated, these new concepts and capabilities are taken by the Future Warfare Center, Directorate of Combat Developments, and written into Army and joint doctrine. Finally, simulations are instrumental in developing requirements, testing new concepts, planning acquisition processes, and conducting training without the need for full units and their equipment.

The Space and Missile Defense Technical Center's Test and Evaluation Directorate provides centralized management as SMDC/ARSTRAT's lead organization and executive agent for supporting developmental and operational T&E. The successful launches in April and May of launch vehicles supporting the Missile Defense Agency's Flight Test Countermeasures Campaign are recent examples of the T&E Directorate's support of the Ballistic Missile Defense System.

The T&E Directorate also provides oversight to the U.S. Army Kwajalein Atoll/Ronald Reagan Ballistic Missile Defense Test Site and High Energy Laser Systems Test Facility for the planning, conduct and integration of developmental and operational testing, independent evaluations, assessments and experiments. USAKA/RTS is the nation's premier location for strategic and theater missile system testing as well as sensor research and development testing. HELSTF is our nation's only fully integrated, full-spectrum power laser facility capable of static to dynamic laser tests on an instrumented range.

The Technical Interoperability and Matrix Center's Extended Air Defense Testbed offers extensive capabilities to conduct subsystem to system-of-system interoperability analysis. Simulation of scenarios in support of complex system-of-systems like the PATRIOT missile system is supported by EADTB.

The FWC, as the Army integrator and proponent for space and missile defense mission areas, identifies, develops and rapidly transitions innovations to warfighters through experimentation in laboratory and field environments, analytical assessments, and simulation. The results of these efforts are then tested by warfighters in Army and Joint exercises and experiments, as well as current military operations. The testing of the Combat SkySat system and Joint Blue Force Situational Awareness technologies during Joint Expeditionary Forces Experiment 2006 are recent examples of testing systems in major command and control exercises.

See *Joint warfighters* on page 3

By now, all of us should have read or been told about the new Army Service Uniform. I ask all Soldiers to embrace the change, and to understand the reasons why the Army has simplified another class of uniforms.

Throughout my career, the Army has had three Class "A" Uniforms: Green, Blue, and White. Many senior noncommissioned officers and all officers had two of these uniforms and a number had all three. It was expensive to maintain these uniforms and, at times, confusing to decide or direct which uniform to wear to a military event.

Army leaders achieved simplicity in adopting the Army Combat Uniform as the primary duty or Class "C" uniform (retiring three different uniforms: the Desert Combat Uniform and two versions of the Woodland Green Battle Dress Uniform). They have achieved another simple solution for the Army Service Uniform. The green and white uniforms will be retired.

Our leaders have adopted a service uniform with great utility. With minor modifications, the same uniform will be a service and a dress uniform (substitution of white shirt and four-in-hand or bow tie for the grey shirt and four-in-hand tie). Without the jacket, it could serve as a Class "B" uniform for indoor duty.

Army leaders sought a quality uniform as the Army Service Uniform. This blue uniform will be made of a heavier fabric than currently and can be worn longer without fading or fraying. The different shades of jacket and trouser allow Soldiers to replace only one item at a time. The cost of the uniform will increase, but clothing allowances will be adjusted upward to enable Soldiers currently serving to purchase this uniform.

Army history is reflected in the new uniform. The Army Green Service Uniform was adopted in 1955; Soldiers have worn it for 51 years. In contrast, the Army has worn a blue uniform since 1779. Even the combat and field duty uniform was blue until the early 20th century. The blue uniform is regularly worn by our oldest regiment, the 3d Infantry, as they display the Army's most public face when guarding the Tomb of the Unknown Soldier and providing military honors at funerals and other military ceremonies.

Our leaders have made a sound decision and have emphasized simplicity, utility, quality and history in making this decision. Get behind this change. Tolerate no second-guessing. Learn about the decision, explain the decision and wear the Army Service Uniform with pride. It is a proper reflection of the excellence of the American Soldier.

ON POINT!



June 14, 2006 — "This 231st Birthday is a recognition of The Army's history, traditions, and service to the Nation, a Call to Duty, 231 Years of Service to Our Nation."

(See Army Birthday message, page 11)

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What We Think

The Eagle asks:

In observance of the Army's 231st Birthday, what do you believe has made, and continues to make, our Army the best in the world?



Chief Warrant Officer 2 Angel Rivera
G-6 Wideband Gapfiller
Colorado Springs, Colo.

The individual Soldier and the values he/she represents and fights for.



Lt. Col. William M. Ford
Research & Development
Integrator
Technical Center
Redstone Arsenal, Ala.



Capt. Tiffany Carr
1st Space Brigade, S-1
Colorado Springs, Colo.

Our leadership, our teamwork, spirit and comraderie, and our superior equipment and forces.

Certainly, our Soldiers, leaders, technology, training, force projection and mastery of combined operations, give us a strength making our Army second to none. However, I would like to touch on a key value which is the backbone for our Army and our nation — the courage to fight for freedom. Our nation was born and survived because of the willingness of our forefathers to fight and die for our freedom. This tradition has followed the course of our history. Our Army continues to fight for freedom all over the world, giving others freedom from oppression which will stabilize other countries so they become less of a threat to our own freedom. I recall a quote I read several years ago for Memorial Day that sums it all up — “For those who have had to fight for it, freedom has a flavor the protected will never know.”

Stipe

continued from page 1

many other test and evaluation ranges,” Stipe said.

“Next, we committed to moving the majority of our operational space mission to Huntsville and have identified some functions that can be performed here,” she said. “We have 36 USAKA employees — including six Marshallese employees — who will relocate to Huntsville before the end of the summer.”

She said KRS is currently working with the Marshallese employees — some with family members — on quality of life issues such as ESL (English as a second language) and driver license, etc., to prepare them for an easier transition to the United States.

USAKA took a substantial budget cut in 2004, and the assessment team helped Stipe find paths to *the way ahead*.

“But, it was the people on Kwajalein who made survival possible. The workforce came

up with some very creative ways to reduce costs. They thought of ways to make improvements that contributed to both mission and quality of life on the islands,” Stipe said, including identifying potential new customers for the Range. USAKA has been very successful in courting external range customers like NASA to build and launch its Falcon I program on the island of Omelek — a program sponsored by SpaceX company, owned by Elon Musk.

“This program is a launch-on-demand lift capability that puts satellites into orbit ... and the fact that this was accomplished in less than two years is unfathomable in the missile community today,” she said.

Personally speaking

Stipe said she'll miss the sunrises cresting the ocean and sunsets falling below the lagoon. She jokes that she will also miss the early-morning and

evening bugle calls, a product of her desire to reacquaint the mostly-contractor community with the sounds of U.S. military installations across the world.

“I'll miss the connection we have established with the U.S. Embassy in Majuro, the Marshallese government leadership ... military and Department of Army civilians on the staff, and the small-city closeness with large-city infrastructure.”

She added that the two-year separation from her husband, Gary, was the hardest two years of their 23-year marriage.

“I don't plan to put us in a situation of being separated again ... if I can help it,” Stipe said. There's a perception that it would be a conflict of interest for the USAKA commander's spouse to be employed on the island; that the spouse couldn't work for either the command or a contractor on the island.

“This perception needs to change,” she said. “A couple cannot (emotionally) afford to do

this job without each other ... or (financially) if they have kids in college.”

“I'm a very visual person”, Stipe added. “I was told to be patient. I was told that if I envision it, the next commander will either execute it or cancel it. I have difficulty waiting for an approved program to take root, so when you consider the magnitude of change associated with the past two years, the face of Kwajalein has certainly been impacted ... by brute force or by very capable and creative planning and execution. I'm very proud of what we have done and excited about the future ... for things yet to come.”

Col. Steve Reed, the inbound USAKA commander, visited there in April.

“He seems to have a similar visual philosophy,” Stipe said of her successor. “Progress is good. Change is good. The future of Kwajalein is sound, *but* is Kwajalein ready for round two? I think so!”

Joint warfighters

continued from page 2

Within the FWC, the Battle Lab is the command lead for participation in wargames and concept development experimentation. As such, the Battle Lab works closely with other services and Army commands to ensure that Army space and missile defense concepts and capabilities are represented and assessed in key venues. The Simulations and Analysis Directorate provides modeling, simulation and analysis support in several areas. The Information and Computational Engineering Division, in support of MDA, Army Program Executive Office for Missiles and Space, and the Ground-based

Midcourse Defense Joint Program Office provides a variety of high performance computational assets, including hardware, software, networking and engineering services for simulation-based analysis and testing. The Studies and Analysis Division executes force-on-force operational analysis, primarily with constructive simulation tools. The Models and Simulations Division develops and integrates simulations for analysis, experimentation, and exercises. This activity is also responsible for determining the utility of space, missile defense and information operations system, as well as the associated concepts of operation for joint warfighters.

Lessons generated during the conduct of

exercises and futures events are stored in the SMDC/ARSTRAT Events Database. Managed by the G-3, Training and Readiness Branch, the Events Database is the one-stop location for information related to SMDC/ARSTRAT exercises, experiments and wargames as well as operations.

All of these efforts contribute to the goals of developing the most effective and efficient Army capabilities for joint warfighters while also influencing the other services and the joint community in developing capabilities that will support the future ground warfighters.

SECURE THE HIGH GROUND!

Simulation Center plays varsity in joint Homeland Defense exercise

By LuAnne Fantasia
SMDC/ARSTRAT Public Affairs

In a joint exercise in mid-April, the U.S. Army Space and Missile Defense Command/Army Forces Strategic Command's Simulation Center was a heavy hitter in the simulated asymmetrical homeland defense training exercise — Amalgam Arrow 06-07.

With the 1st Air Force Homeland Defense Distributed Mission Operations at Tyndall Air Force Base, Fla., in the lead, the NORAD-sponsored exercise proved that command and control skills for homeland integrated air defense can be trained through distributed, man-in-the-loop, virtual simulation — a requirement recognized immediately following Sept. 11, 2001.

"Man-in-the-loop, virtual simulation is, in all likelihood, the most promising venue for training multiple services and government agencies," said Army Col. Nanette Mueller, chief of air and missile defense in the command's G-3, or Operations.

It was at her request that the Simulation Center — part of the command's Future Warfare Center — developed and fielded virtual simulation capability.

"That is key to analyzing and training for the homeland air and cruise missile defense mission," said Lt. Col. Kevin Hathaway, program manager for the command's Distributed Mission Operations-Air Defense Artillery, or DMO-ADA.

Although players in the exercise were scattered nationwide, 12 distributed locations (including "Team Huntsville") participated in the exercise, to successfully manage simulated real-world emergencies, and simulate airborne threats against the homeland, according to Hathaway.

He said DMO-ADA currently provides a man-in-the-loop station that exercises every element of the National Capital Region's Joint Air Defense Operations Center, or JADOC.

"This is nearly as effective as receiving live training in the NCR, but more cost-effective," he said. "We simulated the JADOC."

Hathaway, a 25-year Army Reserve officer called up to active duty to spearhead these types of projects, said the complexity and atmosphere at the joint operations center in the nation's capital is tense, requiring Soldier skills quite the opposite of how they're normally taught to defend.

"Soldiers are trained to conduct missions on the battlefield with permissive command and control measures, i.e., we give them fields of fire, rules of engagement, and

permission to engage within constraints," Hathaway said. "The JADOC mission requires restrictive command and control measures."

According to Hathaway, Soldiers of the 164th ADA of Florida's National Guard learned a whole new approach to using their weapons systems. "They learned to not shoot until told to do so through a very rigid control scheme."

The technology is here

Charlie Wilcox, project manager for the command's Simulation Center, is a contractor engineer with Madison Research Corporation, or MRC, which provides engineering and information technology services to this command and other government and civilian organizations.

"talked" to each other for a complete air defender picture.

"The technology has reached the point where this could be done," he said. "We could not do this three years ago."

Wilcox said the command left operational and simulated hardware behind after the exercise so it can drive future exercises from here, and that the way ahead is for all air defender components to play in real-time exercises.

"We have the ability to exercise all levels of command authority," Hathaway added, "from the shooter, up to and including the national command authority level."

164th ADA

Lee Smith — the command's technical lead for the exercise and a contractor employee with Raytheon — received an e-mail from a senior Air Force official who observed the Soldiers' activities at the 164th Air Defense Artillery in Florida. Smith feels this e-mail says it all.

"Everything went fantastic. [The commanders of the 164th] were thrilled. The training impact was huge with everyone at the 164th. Watching the young Army troops high-fiving and patting each other on the back with the UAV shoot-down was exciting. They got a lot out of Amalgam Arrow. Next step should be to distribute the training to other Guard units. Amalgam Arrow was an absolute home-run ..."

Smith reiterated this program effectively and efficiently brought together pieces of current air defense artillery systems and

warfighters to simulate the current defense posture of the nation's capital.

"Systems developed by many different government agencies and contractors here in Huntsville were integrated into a single, coherent defense system ...," he said. "We then took that integrated system [to Tyndall Air Force Base in Florida] and coordinated with other participants and integrated it across the Department of Defense network to work the scenarios in the exercise."

"Team Huntsville' worked together under a difficult schedule," Smith said, adding that although the exercise was only one day, preparation and training for it took six months. "Everyone on this team did more than their part."

Members of "Team Huntsville" who made Amalgam Arrow 06-07 a success are: SMDC/ARSTRAT, AMRDEC, Cruise Missile Defense Systems, Raytheon, Madison Research, Scientific Research, Brown International, AEGIS Technologies, Sigmatech, CAS, SAIC, ALATEC, and SYColeman.



Photo courtesy of the U.S. Air Force

Soldiers of the 164th ADA Brigade, Florida National Guard, learn to engage under restrictive command and control measures during a homeland defense exercise at Tyndall Air Force Base in May. SMDC/ARSTRAT's Simulation Center developed and fielded a man-in-the-loop, virtual simulation that played heavily in the exercise, where 12 command, control and communications systems nationwide talked to each other simultaneously. The exercise proved that homeland integrated air defense can be trained through distributed, man-in-the-loop, virtual simulation — a requirement recognized immediately following Sept. 11, 2001.

Wilcox said there are "friendlies" in our air space and purview. "We have had other forces in our neighborhood that created a high-pressure decision-making situation. If there is a real incident, that is not the time to determine how you're going to engage," he said. "From this exercise, Soldiers experienced the joint command and control required."

According to an Air Force report on the exercise, one scenario involved terrorists hijacking a civilian aircraft and changing its course toward the capital region. Another had unknown individuals launching an unmanned aerial vehicle up the Potomac River toward the capital region. Each scenario required the Air Force, Army, Coast Guard and other federal agencies to coordinate with each other.

Since 9/11, military and other government agencies have worked hard to establish full cooperation up, down and across all government entities working within national airspace. Wilcox said this exercise was the first time everyone

49th Missile Defense Battalion gets new leader

By Maj. Laura Kenney, 100th Missile Defense Brigade (Ground-based Midcourse Defense), Public Affairs

FORT GREELY, Alaska — Command of the 49th Missile Defense Battalion (Ground-based Midcourse Defense) changed hands April 8, as Lt. Col. Edward E. Hildreth assumed command of the historic unit in a ceremony held on the parade field here.

Outgoing commander, Lt. Col. Gregory S. Bowen, was the first commander of the unit that stood up by presidential directive Jan. 22, 2004. He relinquished command with the traditional passing of the unit's colors — giving them back to Col. Michael L. Yowell, commander of the 100th Missile Defense Brigade (GMD) — higher headquarters for the 49th — who then passed the flag to Hildreth.

The battalion is at the forefront of the nation's emerging missile defense technology, with interceptors located here and at Vandenberg Air Force Base, Calif.

Yowell praised the immense effort it took to build such a unit, saying that Bowen started virtually from scratch, armed, initially, with only a clip-board.

"Lt. Col. Bowen was involved in every aspect of the work it took to make this unit the tremendous success it is today, from recruiting through training to manning. It's a



Photo by Sgt. Jack W. Carlson III

Lt. Col. Edward E. Hildreth (left) accepts the battalion colors from Col. Michael L. Yowell (right) symbolizing Hildreth's assumption of command May 8. Also pictured are the 49th's Color Guard and Lt. Col. Gregory S. Bowen (far right), outgoing commander.

good thing Lt. Col. Hildreth is extremely capable, because those are mighty big shoes left to fill."

Bowen, in his farewell speech, said, "It was a tremendous honor to be able to impact on a mission I passionately believe in. We know that the president is aware of what we do. As long as I live, I will never forget the great Soldiers I served with,

and the great things we did here at Fort Greely. And every commander who gives up command hopes to be able to say, 'I'm leaving it better than when I took over.' Lt. Col. Hildreth, I can honestly say that I've done so."

Hildreth agreed that command of such a unit was an honor, and remarked that he felt humbled by it.

"Holding this ceremony on

the anniversary of VE Day [when Germany surrendered unconditionally in 1945] is appropriate," said Hildreth, "because the Soldiers here today have the same unwavering commitment to the defense of our nation as did those great heroes. To me, they all represent the Army values, and I am proud to be standing in their ranks, defending the homeland."

Ceremony recognizes 1st Space Brigade activation

By Ed White
SMDC/ARSTRAT Public Affairs

PETERSON AIR FORCE BASE, Colo. — The U.S. Army formally recognized the key contributions and capabilities that space support plays in the entire spectrum of operations during ceremonies that activated the 1st Space Brigade.

"This ceremony today is about all the people who have given blood, sweat and tears out of their lives to form the 1st Space Brigade," said Col. Kurt Story, the brigade's commander. "This has been a long time coming. It started out as a vision, and it has been taken step by step until we have now been recognized by the Army as a warfighting unit. From the moment we uncased these colors, we stand equal to every other brigade in the United States Army. There is no change in our mission. The change is in the way we are recognized by other warfighters."

"Space support to the nation is here to stay," Story added.

The 1st Space Brigade was established as a provisional brigade on April 10, 2003, and was officially activated on Oct. 16, 2005. Between 2005 and 2006, the Army formally recognized the unit's mission and authorized the change from a provisional element to a Modified Table of Organization and Equipment (MTOE) unit. With this formal activation, the brigade adopted its own colors and distinctive shoulder insignia.

The activation ceremony is an age old Army tradition and serves two purposes;

first, it allows the commander the opportunity to assess the readiness and discipline of the unit. Secondly, with the uncasing of the brigade colors, it marks a definite point in time to commemorate the beginning or continuation of a unit's history and lineage.

"This ceremony has to do with the



Photo by Ed White

According to tradition, the brigade command sergeant major is the keeper of the colors. 1st Space Brigade Commander Col. Kurt Story (right) hands the freshly unfurled colors to the brigade Command Sgt. Maj. Daryall Sumpter to conclude the 1st Space Brigade activation ceremony held May 25 on Peterson Air Force Base, Colo., where the unit is headquartered.

formal recognition of the organization as truly a warfighting organization that provides great capability to our nation," said Col. Roger Mathews, deputy commander for operations, U.S. Army Space and Missile Command/U.S. Army Forces Strategic Command. "I think the most important significance is that the Army itself, as the largest user of space capabilities and space forces, needs a premier organization that can bring those capabilities to the front representing the needs of the warfighting command."

"We're very excited to see this happening with 1st Space Brigade. It is long overdue," added Mathews.

The insignia is rich in symbolism. The black background represents space. The eagle, with spread wings, symbolizes the freedom and constant vigilance provided by the armed forces. The orbital track, with the light symbol encircling the demi-globe signifies the unit's worldwide footprint in support of intelligence, reconnaissance, communications, early warning and navigation missions.

The pole star symbolizes the brigade's charter to bring space-based capabilities to the ground warfighter, delivering "space to mud." The triangular shape of the pole star's light suggests the enduring support provided to Soldiers in the field by Army Space Forces.



E Company Soldiers conduct training while performing real-world mission

By Capt. Jason Shin
Unit reporter

OKINAWA, Japan — Echo Company, 53rd Signal Battalion (SATCON) Soldiers perform their real-world mission of controlling satellites every hour of every day. It is not common for them to conduct tactical operations in a field environment. However, the Soldiers of Echo Company enthusiastically and successfully performed their warrior tasks during their Field Training Exercise, or FTX, at Combat Town from April 24-28.

The FTX consisted of three major training events: land navigation, perimeter security and Military Operations on Urbanized Terrain (MOUT). Land navigation involved Soldiers finding various points across rugged terrain. The Soldiers had to traverse through the dense jungles of Okinawa, battle through spider webs, and cross flowing streams to find their points. In the end, all Soldiers successfully completed the course.

Perimeter security taught Soldiers how to control entry to a restricted area and conduct a search on a person and vehicles in a tactical environment. After a brief class on these tasks by the instructor, Sgt. Michael Brondsema, each squad was presented with realistic scenarios on which they had to perform the tasks. The



Photo by Capt. Todd Vick

Staff Sgt. David Sizemore shows off his rappelling skills during Echo Company's Field Training Exercise.

Soldiers took their mission seriously and benefited from the realistic conditions the training was conducted in. They performed extremely thorough searches and appropriately dealt with uncooperative detainees.

The highlight of the exercise was undoubtedly the MOUT training. Sgt. Nicholas Alksnitis, a former infantryman, was tasked as the instructor. His instruction began months before the FTX as he personally trained all the squads during Sergeants Time Training to better prepare the Soldiers for this task. After having the squads perform multiple drills on assaulting a room and then assaulting a building, Alksnitis briefed each squad on a scenario in which they had to assault and secure a building. It was up to each squad to come up with a plan and carry out that plan by a given time. This type of realistic scenario-based training really had the Soldiers focused and excited as they carried out their mission.

In addition to the training events, Soldiers were given the opportunity to rappel off a building. Most Soldiers had little or no experience in rappelling while Sgt. Albert Gil de Lamadrid and Staff Sgt. David Sizemore had extensive experience. They taught anyone who wanted to learn and ensured that all safety precautions were made.

The FTX was hugely successful as all training objectives were made while the company still performed their real-world mission. Spc. Ernest Mari said, "I had a great time and can't wait to go back for more training."



Photo by Sgt. Jack W. Carlson III

In this scenario, Spc. Josh Wheeler is placed on a stretcher by the emergency response personnel on Fort Greely in preparation for medical evacuation to the Delta Medical Clinic and Basset Army Hospital in Fairbanks, Alaska. Wheeler was transported via Black Hawk during the evacuation.



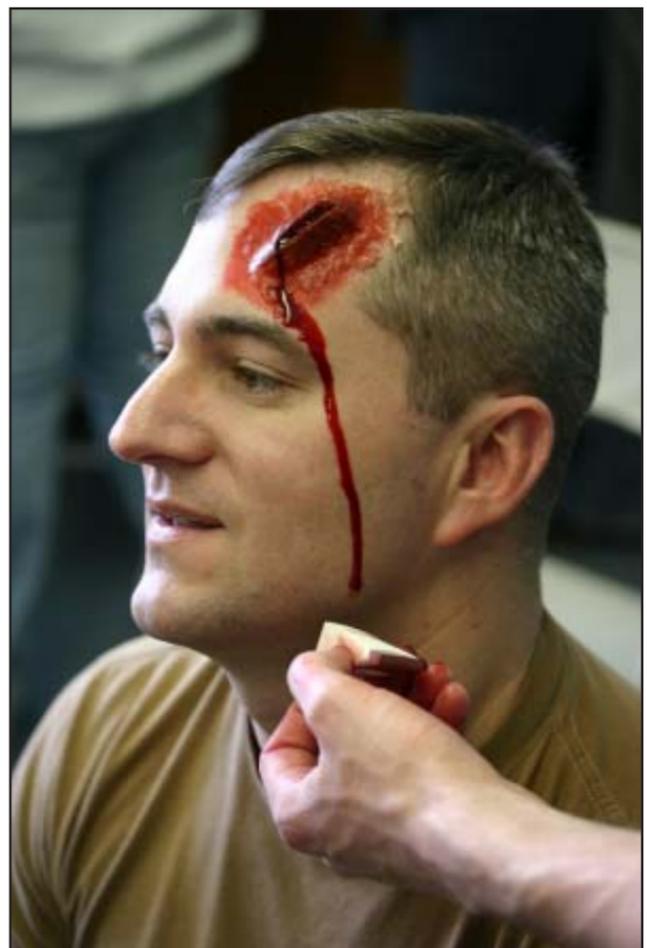
2nd Lt. Ronald Bailey simulates a fatality during the Mass Casualty Exercise. During the scenario Bailey was "fatally injured" in a vehicle that collided with a school bus.

Mass Casualty Exercise tests Fort Greely's emergency response personnel annually

FORT GREELY, Alaska — Personnel conducted Mass Casualty Exercise on Fort Greely April 24. The annual exercise is designed to test the response of emergency personnel during a casualty.



Sgt. Russell Craig screams in false agony while another Soldier is taken out of a destroyed vehicle during a simulation for the exercise.



2nd Lt. Ronald Bailey waits patiently as "mouflage" is applied in preparation for the Mass Casualty Exercise.

Paintball provides reality-based training

By 2nd Lt. Clint Rutter
Unit reporter

CAMP ROBERTS, Calif. — What is it that causes Soldiers to become startled when they experience an unexpected occurrence or a threat to their well-being? Soldiers all have experienced the feelings associated with fear. Pounding heart, rapid breathing, dry mouth, sweating and trembling are just a few of the obvious effects. In an effort to maintain combat readiness, one technique is to introduce tough, realistic scenario training.

Delta Company, 53rd Signal Battalion (SATCON) has taken lessons learned from Afghanistan and Iraq via the Center for Army Lessons Learned and incorporated them into their training program, thereby allowing combat stresses to play into scripted scenarios. Commanders train their units to be combat ready, and training is the number one priority. Commanders achieve combat readiness through realistic and challenging training. Delta Company recently conducted Sergeant's Time Training where Soldiers armed with paintball guns reacted to contact and assaulted a bunker. The company added paintball into their training to simulate realism without the risk of Soldiers getting injured.

According to Diablo 6, Capt. Conway Lin, "Until simunitions are readily available, using paintball equipment teaches the

Soldiers to hold onto their basic fundamentals such as staying low to the ground. Firing blanks with MILES (Multiple Integrated Laser Engagement System) is an excellent training tool, but there's just something different when you know you might get hit with something that you'd rather not get hit with. MILES uses eye-safe lasers as bullets and each individual has a detection system to sense hits.

"Blanks don't hurt, and you don't duck blanks. But paintballs hurt, make you duck and require that you find good cover. Paintball makes training interesting to Soldiers, but you have to be very cautious it does not turn into a normal paint war. With the appropriate controls and trainers, it is possible to focus on training small-unit tactics. "These battle drills support the Warrior Ethos and bridge the gap to simunitions integration," said Lin.

Delta Company executive officer, Capt. Ryan Renken, was at first a bit pessimistic about the effectiveness of paintball training over MILES. After experiencing the training first-hand, Renken had a different opinion. "I think that only realistic training makes us more effective on the battlefield. Furthermore, I think that paintball adds a sense of realism that hiding behind tall grass to avoid a MILES kill never provides," said Renken.

Delta Company took the training very seriously and focused on true wartime experiences. Unlike the training received in basic training when Soldiers are on a range with pop-up targets, this training was more combat-like. 1st Sgt. Mark Gehrt said, "Targets



Photos by Capt. Ryan R. Renken

Spc. Nathan Crandell lays down suppressive fire from the prone position.

don't just pop up at fifty meters and remain stationary. They move, and they shoot back. What we want to do is prepare our Soldiers to encounter that scenario, so we do it in training.

"We're using paintball guns to have a pain factor, so when our Soldiers make a mistake, they know it immediately and get some feedback," added Gehrt.

Delta Soldiers Sgt. Taylor Roynon and Sgt. Joseph Mason can attest to the realism and training benefit. Seeking cover at a nearby bunker, the two Soldiers decided to lay down suppressive fire on a squad assault. Unexpectedly, they started taking hits in the bunker. Covered in paint and two dozen paintballs later, Roynon said, "Wow I didn't realize how much it stings, from now on I'll be in the prone position laying down some indirect fire."

After training on assaulting a bunker according to FM 7-8 and FM 3-23.30, Sgt. Jarrod Mantz said, "Delta Company Soldiers are now prepared and expected to know how to assault a bunker. It's different when you get hit. You know it wasn't a glitch. You know if it were a bullet you'd be hurt bad. You just don't get that with MILES. I wouldn't expect anything less of my squad now. We are reaping the benefits of the time we put into planning and coordinating our Sergeants' Time Training."



A member of Delta Company, 53rd Signal Battalion, hides behind a bunker used during assault.

Missile defenders get visit from top

Brig. Gen. Thomas D. Mills, Colorado Army National Guard ground forces commander, visited a 100th Missile Defense Brigade (Ground-based Midcourse Defense) crew May 2. Mills and Command Sgt. Maj. Jimmie Thorp, COARNG state sergeant major, toured the Missile Defense Element at the Joint National Integration Center on Shriever Air Force Base. Pictured here: Capt. Karl Gansler (left) explains the GMD mission to Mills (center) in the GMD "node." Also pictured: Staff Sgt. Robert McCaston (background), Sgt. 1st Class William Spriggs (far right).



Photo by Carol Floyd, JNIC photographer

Marines conduct Stinger live-fire training on Meck

By Nell M. Drumheller
Editor, *The Kwajalein Hourglass*

They came, they trained and they left. Sixty Marines spent two days firing Stinger missiles at one-fifth scale radio-controlled aerial targets on Meck Island, the Republic of the Marshall Islands.

"Live-fire training is vitally important," said Maj. Gen. George J. Trautman III, commanding general for the 1st Marine Aircraft Wing, Iwakuni, Japan, on Meck May 25. This was Trautman's first in-person viewing of Stinger live fire.

The Marines, from the 1st Stinger Battery, Okinawa, don't often have the opportunity to train live. Typically they train in simulators. To maintain their qualifications, they must shoot live once every three years, according to Battery Commander Maj. Matt Culbertson.

This is the first time the Marines have traveled to Kwajalein for this training. "It is a first-time event for RTS [Reagan Test Site], but the Marines do it on a regular basis. Last year, it was done on Wake Island," said Capt. Eric J. Everts, U.S. Army Kwajalein Atoll, ICBM test director. "This unit is a Stinger Battery, and their wartime job is to shoot down enemy aircraft," the captain said.

Over the course of two days' training, they fired 48 surface-to-air Stinger missiles.

While most of the Low Altitude Defense gunners, or Stinger gunners, agreed that live training tops simulator training. Cpl. Dennison Muczynski summed it up, "It's the adrenaline rush." He said training in an air-conditioned simulator is not the same as training in the elements.

Training live builds confidence according to Lance Cpl. Michael Mariana, a Marine of three years from Ohio and a Stinger gunner. "You build confidence in your system, your team, battery and leadership."

What does the Marine training mean to the USAKA community? On his last visit



Photos by Nell M. Drumheller

One-fifth scale radio-controlled aerial targets are used during live fire Stinger missile training.

to Kwajalein, Lt. Gen. Larry J. Dodgen, commanding general, U.S. Army Space and Missile Defense Command/Army Forces Strategic Command, indicated that joint-service use of the USAKA/RTS facilities was vital.

"My mission for Master Sgt. Frank Cota upon his arrival earlier this year as the senior range NCO [noncommissioned officer] was to be creative and find customers who might be able to use our range," USAKA Commander Col. Beverly Stipe said. She added that service orientation (Air Force, Navy, Marines), did not matter in her request of Cota, as long as high quality testing or training environment could be assured.

Stipe continued, "Well, it didn't take Master Sgt. Cota long before he was briefing me on Marines from Okinawa who needed a place to collect cursory data on their inventory of Stingers without the encumbrance of political or population sensitivities.

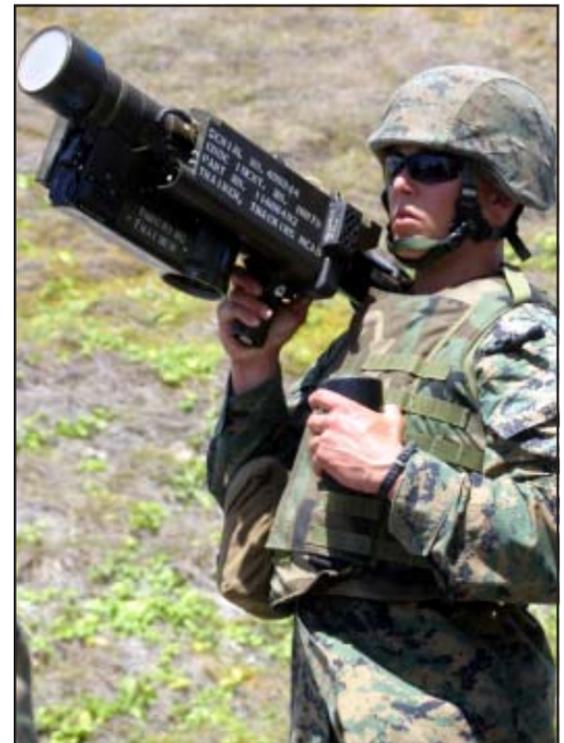
Together, Cota, Everts, Billy Traweek, [Kwajalein Range Services Range Safety] and others sorted through the obstacles of firing from Meck Island, assisted the Marines in establishing a solid firing table, and built the logistics timeline that put the Marines 'on the beach' this week," Stipe said.

She added that having Trautman join his Marines for several of the firings was inspirational. "I am extremely pleased with the professionalism that went into the planning, and I am very happy with the level of support RTS and KRS provided to ensure the trip here and the firings went so well. My congratulations for a job very well done," she said.

Two Marines visited USAKA in March on a site survey. "Meck was the best place at RTS that met their mission requirements. Cost, scheduling and other conflicts brought them to RTS," Everts said.

The Marine gunners agreed that anytime there was an opportunity to train it should be used. The training on Meck provided both day and night live

fires. On May 25, prior to the second day of live fire, Culbertson told his Marines, "Even if we don't fire another missile this has been a success." On May 24, the Marines hit 100 percent of the targets. On May 25, there were a couple of misses, but according to Trautman, they were technical kills since they narrowly missed



Low Altitude Defense Gunner Cpl. Kristopher C. Newberry is one of 60 Marines who trained on Meck May 24-25.

the small target and if the target had been a scale aircraft it would have been a hit.

Trautman met with most of the Marines one-on-one, while learning about each of their responsibilities during the training. He reiterated the importance of the live-fire training and the ideal circumstances on Meck.

Muczynski said the Marines appreciated the opportunity to come to the Republic of the Marshall Islands, "Just coming over to see this," he said, indicating the island. He added that part of the pre-deployment preparation was briefing the Marines on where they were going and on the historical importance of the Marshall Islands to the United States and the Marine Corps. He said that many of the Marines in the 1st Stinger Battery were from small towns across America and the opportunity for them to visit Kwajalein and Meck was once in a lifetime.



Maj. Gen. George Trautman, commanding general for the 1st Marine Aircraft Wing, Iwakuni, Japan, is briefed on Stinger firing procedures by Sgt. Michael Knight. The Marines conducted live fire training on the island of Meck, the Republic of the Marshall Islands, May 24-25.

Bravo Company FTX instills warrior ethos

Bravo Company, 53rd Signal Battalion (SATCON)

FORT MEADE, Md. — Bravo Company, 53rd Signal Battalion (SATCON) held its fourth annual Field Training Exercise named OPERATION RED SCORPION at Fort A.P. Hill, Va., the last week of April.

The main purpose of the exercise was to create realistic and mentally tough training that would prepare Signal Soldiers for combat operations. It would also validate their warrior tasks and drills and give Soldiers better comprehension of combat survival while being tested by real-life scenarios.

Each year, Bravo Company furthers its training strategies by fine tuning the valuable lessons learned from the previous year's FTX and building upon them. This year, the company enhanced the training experience and changed the entire focus of the FTX by introducing convoy operations, embedded media, civilians on the battlefield, and situational exercises similar to those that Soldiers are currently experiencing in Iraq and Afghanistan.

"Soldiers will test their individual physical abilities, as well as their ability to think outside the box," stated 1st Lt. Matthew Kisner, the company executive officer. "We did a lot of planning and rehearsals to insure the Soldiers received training above and beyond anything they have ever done before."

Because of Bravo Company's 24-hour real-world mission, the FTX was formatted to accommodate two separate three-day rotations. This format ensured that the real-world mission would not be upheld while successfully conducting valuable training. Each rotational format was comprised of the same training.

The first day of training primarily focused on Basic Rifle

Marksman and M16A2 qualification on pop up targets. Soldiers were also given the opportunity to complete Nuclear, Biological and Chemical training and night fire qualification. In keeping with tradition, the Soldiers of Bravo Company exceeded the standards.

The second day of the rotation was undoubtedly the most challenging day. The mission was to conduct a relief in place with a signal unit on a forward operating base, or FOB, located about five miles away from base camp. The squads had to convoy in their HMMWVs to the FOB on a cleared route. After approximately a third of the way through the route, the squads were faced with a blocked ambush, which disabled all of the vehicles. From there, each squad continued on foot, doing everything in their power to survive and complete their mission utilizing their warrior tasks.

"I wanted to bring as much of the Iraq environment to the Soldiers as possible without compromising the Soldiers' ability to comprehend, learn and grow from the experience," said Capt. Jermaine Sutton. "Our Soldiers must understand that the war we support today



Photos courtesy of 55th Signal Battalion

Spc. Thomas Oswald puts on his mask as a CS grenade ignites in front of him.

could be the war we find ourselves actively engaged in tomorrow."

On the final day of the FTX, two Soldiers experienced the NBC chamber in a way they would never forget. While in the chamber, Sutton promoted Pfc. Thomas Oswald and Pfc. Andre Nix, both satellite network controllers, to the rank of specialist. As the promotion was announced, the smoke grew thicker in the chamber to the point where visibility was limited to two feet.

After conquering the NBC

chamber, the Soldiers proceeded to their final challenge, the Leadership Reaction Course (LRC). During this exercise, each Soldier was given the opportunity to lead their assigned teams. Each round, an assignment with specific requirements and time restraints was given to the leader, and it was the leader's responsibility to convey and accomplish the mission within the set parameters. The exercise gave Soldiers that weren't in a leadership position a chance to organize and manage others to accomplish an overall goal.

Without question, the FTX was a success. Soldiers commented that they gained more from this year's exercise and training and are looking forward to what awaits them at next year's FTX. The leadership objective was for Soldiers to experience a different type of training other than MOS (military occupational specialty) training while embracing the Warrior Ethos. The FTX afforded the Soldiers invaluable experience and provided them with a realistic perspective on combat. Bravo Company members plan to continue to look for ways to further their development and maintain their dedication to excellence.



Spc. Robert Wright calls on his RT-1523 ASIP radio to inform higher ups of the squad's current situation.

Future Warfare Center explores Siege of Yorktown

The U.S. Army Space and Missile Defense Command/Army Forces Strategic Command Future Warfare Center incorporated a staff ride into their meetings with the Training and Doctrine Command, at Fort Monroe, Va.

According to the Center of Military History, a staff ride is an educational tool designed to explore dynamics of battle, principles of war, operational art, as well as the human dynamic within a particular case study.

While planning for the future, FWC requested a review of a significant piece of American military history.

In response, SMDC/ARSTRAT Historical Office developed a staff ride for the October 1781 Siege of Yorktown, the last significant battle of the American Revolution.

A number of similarities may be made between Yorktown and the current

military situation. The Battle of Yorktown was a joint operation employing the Army, the Navy and the Militia. It was also a coalition effort, with the Americans receiving significant military and financial support from the French Crown. In addition, a key factor in the battle was communications, not just between the French and the Americans but also between the British troops under Gen. Cornwallis in Virginia and their higher headquarters in New York.



Photo by Sharon Watkins

Mark Hubbs, SMDC/ARSTRAT Historical Office, introduces 18th century artillery and tactics to the Future Warfare Center.

2006 Army Birthday message

Call to duty – Boots on the ground

The United States Army was born out of the desire to defend liberty and proudly celebrates its 231st birthday on June 14, 2006.

Since 1775, millions have worn the uniform and lived the "Warrior Ethos." Soldiers have always understood that the freedoms our nation guarantees are worth fighting for, and America's decision to put "boots on the ground"

illustrates like no other action its continued commitment to these ideals.

Today, America's Army is engaged in a global war on terrorism and has a presence in 120 countries. Soldiers have long sacrificed their personal comfort and safety to answer a higher calling. Despite hardships and dangers to life and limb, Soldiers have always answered the call — and our nation has long relied on your courage, your sacrifice and your selfless service.

To our Soldiers around the world, our thoughts are with you and your families on this 231st Army Birthday. We are

proud to serve with you, as you embody the Warrior Ethos. You have made our Army the most respected institution in the United States and the preeminent land power on Earth. We are humbled by your sacrifice and awed by your achievements.

God bless each and every one of you and your families, and God bless America.

Kenneth O. Preston
Sergeant Major of the
United States Army

Gen. Peter J. Schoomaker
Chief of Staff of the
United States Army

Dr. Francis J. Harvey
Secretary of the
United States Army



Awards/Promotions

Civilian Promotions

Veronica Collins, Huntsville, Frontiers Division, Future Warfare Center
Dean Moore, Kwajalein Atoll/Reagan Test Site, Logistics and Community Activities Branch
Cynthia Nelson, Huntsville, G-8, Program and Policy Division
Louis Steil, Huntsville, Contracting and Acquisition Management Office, Policy and Pricing Division
Robert Wall, Colorado Springs, G-3, Blue Force Tracking

Military Promotions

Sgt. Jason Avila, Camp Roberts, Calif., 53rd Signal Battalion (SATCON), D Company
Sgt. David Barnett, Camp Roberts, Calif., 53rd Signal Battalion (SATCON), D Company
Sgt. Levi Ingersoll, Fort Meade, Md., 53rd Signal Battalion (SATCON), B Company
Spc. Jeremy Jacobs, Fort Buckner, Okinawa, Japan, 53rd Signal Battalion (SATCON), E Company
Staff Sgt. Joseph Kelly, Fort Meade, Md., 53rd Signal Battalion (SATCON), B Company
2nd Lt. Curtis Kimbrell, Colorado Springs, 100th Missile Defense Brigade (Ground-based Midcourse Defense)
Spc. Thomas Oswald, Fort Meade, Md., 53rd Signal Battalion (SATCON), B Company
Staff Sgt. Esgar Reyes, Colorado Springs, Colo., 1st Space Battalion, 1st Space Company
Chief Warrant Officer 2 Angel Rivera, Colorado Springs, G-6
Lt. Col. James Rozzi, Colorado Springs, Future Warfare Center
Sgt. Regina Sierra, Colorado Springs, Staff Judge Advocate Office
Sgt. George Stratakos, Colorado Springs, G-3

On-the-Spot Cash Awards

Paula Brumlow, Huntsville, G-1, Civilian Personnel Division
Donna Davis, Huntsville, G-1, Civilian Personnel Division
Karen Downs, Huntsville, Technical Center, GMD Matrix

Bryon Manley, Huntsville, Technical Center, MDA Matrix
Cristina Rodriguez, Huntsville, Contracting and Acquisition Management Office, Policy and Pricing Division
Dianne Trimble, Huntsville, Contracting and Acquisition Management Office,

Special Act Awards

Glen Shonkwiler, Huntsville, Deputy Chief of Staff, Engineer, Environmental Division
William White, Huntsville, G-8, Program and Policy Division

Time-Off Awards

Alesia Barger, Huntsville, G-1, Plans, Policy and Training Division
Karol Boutwell, Colorado Springs, G-3, Plans and Exercise Division
Kelly Davis, Huntsville, Future Warfare Center, Simulations and Analysis Directorate
Billette Kimbrough, Huntsville, Future Warfare Center, Simulations and Analysis Directorate
Debra Mitchell, Huntsville, Research, Development and Acquisition Office

Length of Service

15 Years

Sharon Crawford, Huntsville, Technical Center, Test and Evaluation Directorate
Wilfred Dennis, Huntsville, G-2, Security Division
Andrew Dobbs, Huntsville, Research, Development and Acquisition Office
John McGary, Huntsville, Technical Center, GMD Matrix
William McQueen, Colorado Springs, G-4, Logistics Operations Division
Michelle Smartt, Huntsville, Future Warfare Center, Missile Defense Division

20 Years

Douglas Burdette, Huntsville, Technical Center, Space Division
Douglas Engle, Huntsville, Technical Center, Interceptor Division
Deborah Heidt, Huntsville, G-1, Plans, Policy and Training Division

Charles Hill, Huntsville, Future Warfare Center, Models and Simulations Division
Denise Jones, Huntsville, Technical Center, Space Division
Theresa Morris, Huntsville, G-8
Michael Liston, Huntsville, G-2, Technical Intelligence Division
Royce Ogburn, Huntsville, Technical Center, GMD Matrix
James Watkins, Huntsville, Future Warfare Center, Models and Simulations Division

25 Years

Carolyn Allyn, Huntsville, Internal Review
Terrance Bauer, Huntsville, Technical Center, MDA Matrix
Marcia Bloom, Kirtland Air Force Base, N.M., Big Crow
Connie Crabtree, Kwajalein Atoll/Reagan Test Site
David Crouch, Huntsville, Business Initiatives Office
Jay Howland, Huntsville, Technical Center, Directed Energy Division
George Knowlton, Colorado Springs, Contracting and Acquisition Management Office, Operations
Mary Schaap, Colorado Springs, G-8, Resource Management Office, West

30 Years

Robert Bowles, Colorado Springs, Chief, Information Office, Information Management Division
Stafford Brown, Huntsville, Technical Center, MDA Matrix
Ronald Dickerman, Arlington, Future Warfare Center, Directorate of Combat Developments, Capabilities Division

35 Years

Astrid Lahiere, Huntsville, Contracting and Acquisition Management Office, Operations
Ruth Karen Long, Huntsville, G-4, Logistics Support Division, Plans Branch

40 Years

Leon Riley, Huntsville, Technical Center, DARPA Liaison Division

MacMillan, Broussard receive NDIA awards

By LuAnne Fantasia
SMDC/ARSTRAT Public Affairs

During their annual banquet in May, the National Defense Industrial Association presented its 2006 Defense Technical Awards to two members of the command leading the way in their fields.

David MacMillan, a systems analyst for Delta Research; and John Broussard, systems integration lead for the missile defense division of this command's Battle Lab, received the NDIA award for contractor and government employee, respectively.

Broussard's integrated product team developed a small mobile airspace operation center adapted to the back of a HMMWV, called the Joint Based Expeditionary Connectivity Center, or JBCEC. According to Broussard, the center is one of the Battle Lab's principal contributions to homeland defense since Sept. 11, 2001.

"We developed two JBCECs for

1st Air Force, and they've been deployed numerous times to support airspace control at national special security events and other OPERATION NOBLE EAGLE missions, to include protection of the president, the National Capital Region and the 2004 G-8 Summit," Broussard said.

Col. David Cox is deputy director of the command's Future Warfare Center, which includes the Battle Lab. "John is a working manager. Since 9/11, he and his team have repeatedly deployed in support of major security operations," Cox said.

MacMillan and his team of about 15 defense analysts at Delta Research was recruited by the Missile Defense Agency to evaluate vulnerabilities associated with the kinetic energy interceptor concept — projected to be a 2015 defense system.

"That study has led to identification of several areas of interest for pursuit by the prime KEI hardware contractor," said Delta Chairman Michael Radke, in his nomination



David MacMillan



John Broussard

Photos by LuAnne Fantasia

letter to NDIA.

MacMillan's team supports the Tactics and Specification Center, program for Studies and Analysis Division, of the Simulations and Analysis Directorate within the Space and Missile Defense Future Warfare Center.

"We've been helping defense developers design smart, evolvable systems by explaining and characterizing the potential threat contingencies," MacMillan said. "It's something the [Tactics and Specification] center has excelled at for over 15 years."

Space Camp winners

ASMDA Space Camp Scholarship Committee

Fifteen children are preparing to travel to Huntsville, Ala., to attend Space Camp July 7-12 courtesy of the U.S. Army Space and Missile Defense Association. The ASMDA Space Camp Scholarship Committee reviewed the applications and selected winners based on numerous factors including the applicant's handwritten essay and school grades.

Huntsville, Ala.:

Emily Cunningham, 10, SMDC/ARSTRAT
Brigit Reynolds, 9, PEO-MS
Jabari Wilson, 11, PEO-MS

Arlington, Va.:

Summer Stone, 11, SMDC/ARSTRAT
Demond Barns, 13, Martha's Table

Colorado Springs, Colo.:

Thomas Brophy, 11, SMDC/ARSTRAT
Ronald Welles, 10, SMDC/ARSTRAT

Kwajalein Atoll, Republic of the Marshall Islands:

Elizabeth Clark, 10
Cory Corbett, 10

Delta Junction/Fort Greely, Alaska:

Robert Besch, 10
Dawson Taylor, 11
Julian McCarthy, 10
Elijah Johnson, 11

Omaha, Neb.:

Jared Brown, 10, USSTRATCOM
Carissa Carter, 9, USSTRATCOM

Each year ASMDA announces the availability of scholarships that include one week at Space Camp at the U.S. Space and Rocket Center, round-trip airfare from the parent's work location, a Space Camp flight suit and clothing package, a phone card, spending cash, and any unaccompanied minor travel fees.

Retired engineer receives top honor

REDSTONE ARSENAL, Ala. — Gerald "Jerry" Wilson received the Department of the Army Decoration for Exceptional Civilian Service May 31 here. Dr. Rodney Robertson, director, Technical Center, U.S. Army Space and Missile Defense Command/U.S. Army Forces Strategic Command presented the award to Wilson, who retired from the command in April 2005.

Wilson received the award for his technical contributions from December 2003 to April 2005. His work "helped transition high energy laser technologies into integrated weapon system demonstrators to bring forth new capabilities for Soldiers. His exceptional performance, knowledge and expertise as program manager for several programs were instrumental in positioning the Army to take the lead as the first service to apply High Energy Laser Weapons technology to modern battlefield weapon applications." The certificate was signed by Dr. Francis J. Harvey, secretary of the Army.



Gerald "Jerry" Wilson

Photo by Dottie White



Photo by Dottie White

Construction continues

This photo, taken June 8, shows the progression of the Von Braun Complex on Redstone Arsenal, Ala., as construction continues. The project, which began in October 2005, will eventually become home to the Missile Defense Agency. It will contain approximately 234,000 square feet and house nearly 1,000 employees. The contract was awarded to Turner Universal Construction Company Inc. of Huntsville, Ala., for more than \$30 million. The scheduled completion date is May 2007.

Safety

Overexposure to sun's rays can be harmful

SMDC/ARSTRAT Safety Office

Most people have had a painful sunburn at one time or another. Overexposure to the sun's rays can be extremely harmful, leading to premature aging of the skin, immune-cell disruption, cataracts and other eye problems — and sometimes to skin cancer. In severe cases, the sun's ultraviolet rays can cause blisters. Like the effects of other forms of radiation, sunburn is usually a delayed reaction. It only becomes apparent a few hours after exposure to the sun.

Who is most at risk — and when?

Some people are especially prone to sunburn and need to take extra precautions to protect themselves from over-exposure. They include people with fair skin, light colored hair, or people who freckle easily. People taking certain antibiotics and other drugs that sensitize them to the sun and people working or playing in the water, sand or

snow also need to be vigilant against the sun. Sunburn is most likely to happen on a summer day between the hours of 10 a.m. and 3 p.m. — or any time of the year in southern areas. Never sunbathe longer than a half hour on your first day in the sun. Many people think that if the day is cloudy, they don't have to protect themselves from the sun, but that's not true. In fact, some of the worst sunburns occur on cloudy days. Burning rays can also penetrate loosely woven clothing and up to three feet of water.

Sunburn prevention:

- Avoid sun exposure between 10 a.m. and 3 p.m., when the sun's ultraviolet rays are strongest.
- Use a sunscreen with a skin protection factor of at least 15, and reapply it regularly, especially after swimming or sweating heavily. The sun's rays can be reflected up to areas of the body that might not be protected, such as under the

chin, so don't neglect those areas.

- Apply zinc oxide cream to nose and lips.
- Wear sunglasses that screen out ultraviolet rays, especially while skiing or using tanning booths.
- Wear protective clothing and a hat on sunny or cloudy but bright days.

Relief of sunburn symptoms:

- If you or someone in your family gets a mild sunburn, it can be treated by taking cool baths or showers, using cool compresses and applications of calamine lotion. Stay out of the sun until the burn has faded completely. Apply an anesthetic spray containing benzocaine, not oily creams or lotions. Take aspirin or acetaminophen to reduce pain and inflammation and avoid clothing that rubs the burned area.
- If severe sunburn results in



blistered skin, don't apply any topical medicine to the burn unless a doctor advises it. Also don't break the blisters, because that could lead to infection. Only if the blisters break on their own should you bandage them lightly.

- Drink plenty of fluids to avoid dehydration and immerse the burned areas in cold water for 10 minutes at a time. Continue to take aspirin or acetaminophen for pain and inflammation. Be sure to see a doctor if a headache, nausea or a high temperature is present. These are signs of heatstroke.

Remember safety when swimming for fun, health

Swimming is one of the healthiest forms of exercise there is, since it yields aerobic benefits without sudden resistance or excess stresses on the body. It's by far the most popular sporting activity, outstripping even bicycling, bowling, fishing and baseball. However, the flip side of swimming's popularity is that drowning is the fourth leading cause of accidental death. Most people are familiar with the safety requirements of swimming, but, as a memory refresher, these basics bear repeating.

Water safety for everyone

With the right equipment and clear communication you can prevent tragedy around pools, at the beach, on a boat or any place swimming is allowed.

- Keep proper emergency equipment by your pool or in your boat at all times. This includes a 12-foot pole as well as a life ring or tube with a line attached to it. (However, don't rely on these devices for children, who tend to thrash about in panic if they don't know how to swim.)
- Never dive or swim in unfamiliar waters. Diving into water that's too shallow or swimming underwater in an unfamiliar area and hitting an obstacle are major causes of crippling head and spinal injuries.
- Use the "buddy system" when swimming or diving.
- If the water seems too cold, get out. Hypothermia (cold shock) can render even good swimmers unconscious in minutes.
- Always be sober when swimming, and don't allow any intoxicated people near your pool. (More than half of all serious diving accidents happen when the diver is drinking.)

- Discourage horseplay in the water, and encourage safe games, such as water basketball and water volleyball.
- Don't rely on an inflatable object to keep you afloat if you can't swim.
- Stay out of the water during thunderstorms and bad weather; and don't allow electrical appliances near a pool or spa unless they're protected by a ground fault circuit interrupter.



Drown-proofing your kids

Drowning is the second leading cause of accidental death in children under the age of 5. Most of these drowning deaths involve children who fall into unsupervised swimming pools. Once the following safety rules are put into practice, you'll breathe easier, and you and your kids should get along swimmingly.

- Keep your swimming pool fenced, and lock any access to it when you're not there. (Your local community may have additional ordinances.)
- Never turn your back on your child when near water.

- Insist that all children wear U.S. Coast Guard-approved personal flotation devices (PFDs, popularly known as life jackets) on boats, whether they can swim or not. Never substitute inner tubes, inflatable rafts or similar devices for life jackets. You can test a PFD's fit by lifting its shoulders while the child is wearing it. If the PFD fits right, the child's chin and ears will not slip through.
- As soon as he or she is old enough, have your child learn how to swim, but never allow children to swim alone, even if they're good swimmers.
- Kids shouldn't be allowed to swim if they're tired or if there's a strong current.
- They should stay within any markers and, just like adults, should know the depth of the water before diving.

Rescuing someone from drowning

When someone stops breathing, brain damage can begin within four to six minutes. Thus, quick action can often save the life of a drowning person. If the shore is far away, breathing assistance should begin while the victim and rescuer are still in the water. If several people are available to help the victim, one can tow him or her toward shore while another gives rescue breathing assistance. It's not necessary to get water out of the lungs. The air the rescue-breather provides will go through any water that may be in the person's lungs. To swim with a drowning person, turn him or her face up in the water, put an arm across the chest and grasp the person under the arm. To learn more about water safety and basic life support, contact your local American Red Cross.

Huntsville to host 9th Annual SMD Conference

By Giselle Bodin
SMDC/ARSTRAT Public Affairs

HUNTSVILLE, Ala. — The 9th Annual Space and Missile Defense Conference and Exhibition will take place Aug. 14-17 at the Von Braun Center here. The theme for this year's event is "Global Missions ... Meeting the Challenge."

Special features of this year's conference include presentations in the areas of global ballistic missile defense system development and operation, emerging technologies, and integration of cruise missile defense. Scheduled speakers for the event include Gen. James E. Cartwright, commander of U.S. Strategic Command; Lt. Gen. Henry "Trey" Obering III, director of the Missile Defense Agency; Lt. Gen. Larry J. Dodgen, commanding general, U.S. Army Space and Missile Defense Command/Army Forces Strategic Command; Maj. Gen. David C. Ralston, commander of Fort Sill; Maj. Gen. Douglas Burnett, the adjutant general for the Florida National Guard; and Dr. George Friedman, chairman of Strategic

Forecasting.

Other invited speakers include Lt. Gen. Keith B. Alexander, director of the National Security Agency and chief of the Central Security Service; Vice Adm. Thad W. Allen, commandant, U.S. Coast Guard; Stephen Hadley, assistant to the president, national security advisor; Adm. Timothy J. Keating, commander, U.S. Northern Command; and Lt. Gen. Michael D. Maples, director, Defense Intelligence Agency. The Honorable Condoleezza Rice, secretary of state, has also been invited as a special guest.

The previously successful Small Business Innovation Research Conference and Exhibition will also be held in conjunction with this year's conference.

The biggest change for the 2006 event is the expansion of the conference into the entire VBC. With the South, East, West and North halls housing exhibition areas, there will be more than 150,000 square feet of exhibit space. The conference program will be located in the VBC Concert Hall, transformed for this event into a conference center. There will

be special attractions located in every exhibit hall as well.

The special attractions will be of interest to many different subsets of the general public, such as the celebrity book signings by Billy Waugh, author of "Hunting the Jackal" and Col. Ola "Lee" Mize, Medal of Honor recipient, among many others. There will be a Global Technology Lectures session covering topics such as systems engineering and management of technology.

The Cold War Museum will bring displays, and there will be a program to support spouses who are visiting the city. The world's most valuable and historic chopper, The Liberty Bike, will be on display along with artifacts from the Statue of Liberty and Ellis Island. All of these attractions, along with the viewing of all exhibits, are free and open to the general public.

To register for the conference visit the Web site at www.smdconf.org. For additional information, please contact Giselle Bodin at (256) 955-3889 or giselle.bodin@smdc.army.mil.

Terrorism awareness can make a difference

By William Webber
G-3 Force Protection

Webster's dictionary defines terrorism as "the systematic use of terror especially as a means of coercion" committed by groups in order to intimidate a population or government into granting their demands. The Prussian military philosopher Carl von Clausewitz stated that war is the continuation of a policy by forceful means. Since U.S. policy is to not negotiate with terrorists, the Global War On Terrorism, or GWOT, was launched in response to such terrorist attacks as the Khobar towers, the *USS Cole*, the U.S. Embassy's in Kenya and Nairobi and Sept. 11, 2001. But war on terrorism is not a new concept. On the contrary, the Tripolitan War or the Barbary Pirate War (1801-1805) was waged against piracy and states that supported such actions against American shipping in the Mediterranean Sea. Eventually, that war was won, not by large land armies or overwhelming navies, but in part, by the actions of a few who had the resolve and where-with-all to combat such cowardly tactics. They took the fight to the enemy! Similarly, the GWOT will be won, in part, by the actions of individual, stalwart patriots who understand vigilance and revere that which deserves protecting: our freedom.

Terrorism Awareness is the tool that the ordinary Soldier or civilian can use to take the fight to the enemy and take the high ground. *Terrorism Awareness* will aid in deterring, detecting, defending, and if necessary, responding to terrorist activities. Several terrorist acts have been foiled already and many more will result in the same fate as long as those charged with LEVEL I training continue being alert. Take the time to update your LEVEL I certification. Establish situational



Khobar Towers

Department of Defense photo

awareness as "something you do without forethought". If you don't have the time, make the time. It will be in your best interests and the interest of the Soldier on your right and left for you to do so.

*Don't have a failure of imagination;
Never stop questioning your assumptions;
ALWAYS think outside the box!*

Fireworks safety tips to be aware of, remember



Fireworks and celebrations go together, especially during the Fourth of July. But fireworks can be dangerous, causing serious burn and eye injuries. If fire-

works are legal where you live and you decide to set them off on your own, be sure to follow these important safety tips:

- Buy from reliable sellers.
- Read and follow all warnings and instructions.
- Only light fireworks on a smooth, flat surface away from the house, dry leaves, and flammable materials.
- Light only one firework at a time.
- Never allow children to play with or ignite fireworks.

- Never try to re-light fireworks that have not fully functioned.

- Be sure other people are out of range before lighting fireworks.

- Keep a bucket of water or garden hose handy in case of a malfunction or fire.

- Dispose of fireworks properly by soaking them in water and then disposing of them in your trashcan.



Civilian News

TSP returns for G, F, C, S and I funds

Rates of return were updated on June 2.

| May 2006 | | Last 12 months (6/1/05 -5/31/06) | |
|----------|---------|----------------------------------|--------|
| G Fund | 0.44% | G Fund | 4.60% |
| F Fund | (.09)% | F Fund | (.38)% |
| C Fund | (2.87)% | C Fund | 8.68% |
| S Fund | (4.36)% | S Fund | 17.73% |
| I Fund | (3.87)% | I Fund | 28.92% |

Percentages in () are negative.

OPM requires agencies to report training efforts

Federal agencies must collect and report training and work force development efforts to the Office of Personnel Management data collection system as part of a new federal regulation finalized in May. Agencies must begin entering training data into the government-wide Electronic Data Collection System on Dec. 31, 2006. That will include all information that "supports agency determinations of its workforce training needs and to document the results of training and development programs implemented to address those needs," the regulation says. For more information on the new regulation, go to www.opm.gov/fedregis/2006/71-051006-28547-a.pdf.

Protecting private information

In the event your personal information is compromised, the Federal Trade Commission recommends the following actions should be immediately taken: (1) Contact the fraud department of one of the three major credit bureaus: (a) Equifax: (800) 525-6285 (b) Experian: (888) EXPERIAN, and (3) TransUnion: (800) 680-7289; (2) Close accounts that have been tampered with or opened fraudulently; (3) File a police report with your local police or the police in the community where the identity theft took place; and (4) File a complaint with the Federal Trade Commission at (877) 438-4338 or online at www.consumer.gov/idtheft.

New Web site on Long-Term Care Program

The Office of Personnel Management on May 10 announced the launch of a new Web site for the Federal Long-Term Care Insurance Program at www.LTCFEDS.com. Long-Term Care Partners, LLC, administers the program and maintains the site. New features and improvements to the Web site include:

- A frequently asked questions section on the federal program;
- A calculator allowing employees to calculate the average cost of care in 2005 for home health care, assisted living facilities and nursing homes in their area; and
- A calculator allowing employees to calculate premiums for the FLTCIP's four pre-packaged plans or customized plans. The FLTCIP is the largest group long-term care insurance program in the nation.

DoD offers free anti-spyware

The Defense Information Systems Agency has licensed free anti-spyware software for all government employees and armed forces personnel for use on personal computer systems. Users may also be able to get the software through their respective Automated Data Processing offices. To download the free anti-spyware software, visit the DISA Web site at <https://iase.disa.mil/sdep>, or the Navy's Information Assurance Web site at <https://infosec.navy.mil>. At the INFOSEC site, click on the COMPUSEC tools tab and scroll down to the anti-spyware link, second from the top. The software can then be saved a local hard drive for writing on a CD-ROM or other portable media for home use. Users must be on a ".mil" workstation to download the software.

Military News

DoD increases foreign language pay

The Department of Defense has announced an increase, effective June 1, in Foreign Language Proficiency Pay, or FLPP, for Servicemembers who qualify. The fiscal 2005 National Defense Authorization Act authorizes the secretary of defense to increase FLPP pay from a maximum of \$300 per month to a maximum of \$1,000 per month for qualified active-duty members and offer a \$6,000 per year bonus for qualified Guard and Reserve members.

Military evaluations to be prepared online

The U.S. Army Human Resources Command Evaluation Systems Office is about to announce an effective date for a new regulation and pamphlet covering Military Evaluation Systems. The revised regulation will allow individuals to electronically prepare evaluation forms using an AKO My Forms site and route them between rating officials with digital signatures, then forward to Headquarters, Department of Army, for final processing. The site and forms are expected to be available this month. More information and training slides are available at the Evaluation Systems Office website at <https://www.hrc.army.mil/site/active/TAGD/MSD/ESO/eso.htm>, or by calling (703) 325-9660, or e-mail: tapcmse@hoffman.army.mil.

Procedures to protect private information

Veterans can initiate certain procedures to protect their private information after the loss of 26.5 million veterans' personal information. All three have credit major credit bureaus — Equifax, Experian and TransUnion — have simplified the process for veterans requesting a fraud alert. Concerned veterans also can get more information by calling (800) 333-4636 from 8 a.m. to 9 p.m. EDT, Mondays through Saturdays to reach the manned call center. They can also visit www.firstgov.gov. The Federal Trade Commission is encouraging veterans to report suspected incidents of identity theft via the commission's identity-theft hotline at (877) 438-4338. Banks also have received an advisory from the Office of the Comptroller of the Currency.

New act gives tax help

An act signed into law May 29 by President Bush solves a conflict in the tax code by allowing Servicemembers who serve in a combat zone to still contribute to their individual retirement accounts. The Heroes Earned Retirement Opportunities Act amends the Internal Revenue Code to allow Servicemembers to include tax-exempt combat zone pay in determining the allowable income tax deduction for contributions to retirement savings plans. The Internal Revenue Service will soon be issuing more guidance for Servicemembers who qualify under the Heroes Act. In the meantime, questions can be directed to military legal offices.

Family Servicemember's group life insurance debt reduction program

Many Soldiers insured under the SGLI program, especially dual military couples, may owe back premiums to the Department of Veteran's Affairs for spousal coverage under the FSGLI program. They may owe these back premiums because their spouse is not registered appropriately as their spouse in the Defense Eligibility Enrollment Reporting System. If you are married and have not previously declined this coverage, and have not been paying for it, you may soon get stuck with a large back payment bill. The Army will soon begin working to reduce the amount of back premium debt owed by Army members to the DVA by cross-checking various databases with DEERS, identifying those Servicemembers whose marital status is inconsistent with spousal registration in DEERS, and ensuring these members take action to register all of their dependents (including their spouse even if also in the military) in DEERS. This DEERS enrollment will automatically initiate FSGLI premium deductions from the Soldier's pay, backdated to the date of marriage or Nov. 1, 2001, whichever is earlier. Soldiers not desiring this coverage must initiate action to disenroll and can submit a debt waiver/remission/cancellation application through their chain of command to the Defense Finance and Accounting Service to try to prevent/stop collection of the back premiums.

100th GMD women learn self defense

Black belt instructor provides lecture, hands-on session

By Sgt. Sara Storey
100th Missile Defense
Brigade (Ground-based
Midcourse Defense)
Public Affairs

COLORADO SPRINGS, Colo. — Nearly half of all women in the 100th Missile Defense Brigade (Ground-based Midcourse Defense) attended a women's self-defense seminar April 28.

The two-hour seminar was held at Colorado National Guard state headquarters and was part of National Sexual Assault Awareness Month.

Tom Rieger, who holds a third-degree black belt in Aikido and other lesser belts, taught the class. Rieger's class had two parts: a lecture portion, teaching the two most important pieces of self-defense — awareness and avoidance, and a hands-on session where attendees practiced "stun and run" techniques.

A stun and run tactic is just what it sounds like, according to Rieger.

"When attacked, don't

panic; strike one of the attacker's nerve centers (stun) and run," Rieger said. "You have a 70 percent chance of getting away if you fight back and hit a nerve center."

Nerve centers include instep, groin, eyes, throat, solar plexus and nose. Every nerve center strike has the ability to send the attacker into shock and temporarily disable the aggressor, allowing the victim to get away.

Rieger said it's important that women do not get into a strength exercise with the attacker — women are typically at a strength disadvantage if attacked by a male.

Women should use their emotions and intelligence, taking the fight out of the physical region and into the mental arena.

"As a woman, it's important that we be prepared mentally and physically for any dangerous situation we may find ourselves in," said Maj. Ann Dirks, seminar attendee. "This class had a nice balance — teaching us to be alert to and avoid dangerous situations and preparing us for the challenges of an attack."



Photo by Sgt. Sara Storey

Tom Rieger, instructor, demonstrates self-defense tactics on Staff Sgt. Kristine Onuschak during a women's self-defense seminar April 28.

Echo Company takes on the Dragon

By Sgt. Michael Brondsema
Unit reporter

OKINAWA, Japan — Americans once again took part in a local cultural event here May 5, as Soldiers of Echo Company, 53rd Signal Battalion, along with other Servicemembers, took a break from their normal days to take part in the Annual Dragon Boat Races.

The Dragon Boat Races are just one part of a weeklong celebration called Golden Week, a compilation of four

national holidays that fall within a week of each other.

For the people of the Ryukyu Islands, part of this week is the Dragon Boat races in the port of Naha as well as in Itoman to the south.

The Haarii (Chinese for dragon) started back in the 14th Century as a prayer for good luck for those who earned their living by the sea. As time wore on, it eventually changed to a celebration of the Okinawa culture.

The race itself consists of teams of 30

in wooden boats called "sabani," which are fishing boats carved to look like mythological dragons and are colorfully painted for some fast and furious racing.

Echo Company made a great showing this year with 11 Soldiers taking part in the races, some of them having come straight from working 12-hour shifts the night prior.

For newcomer Sgt. Michael Brondsema, "It was a great time to see Okinawa and take part in their local celebration."

Returning veteran Spc. Brian Metz, the boat captain said about his experiences in the race, "For me this was a high point of my two years on Okinawa."

On the command "Go," teams began paddling with all their strength to the rhythmic beating of a gong and the cheering of an excited crowd. The women's Army team made an outstanding showing with a time of 00:05:38.97 and for the third year in a row claimed first place overall in the women's division. The Army men's team took second in their heat, and earned other honors as well. With a time of 00:05:27.42, they earned bragging rights by beating the U.S. Marine Corps men's team by nearly a full three seconds.

After the teams completed their races, many of the Soldiers and dependents took time to wander around the dock, experiencing the rest of the festival. From playing carnival games and winning prizes, to sampling the local cuisine, there was plenty to do. The day wrapped up with the final ceremonial race and fireworks.



Sgt. 1st Class Michael Leiby

Echo Company, 1st Satellite Control Battalion, Soldiers compete with other members of the U.S. military in the Naha Haarii, dragon boat races, in Okinawa May 5.

Army volleyball team wins Air Force Base championship

SMDC/ARSTRAT Public Affairs

PETERSON AIR FORCE BASE, Colo. — An isolated glimmer of gold shone through a sea of blue as the U.S. Army Space and Missile Defense Command/Army Forces Strategic Command team won the Peterson Air Force Base volleyball championship May 15.



Photos by Ed White

Left, Maj. Chris Crawford and Tim McDonald go up for a block during the championship volleyball match on Peterson Air Force Base, Colo. The Army team won the match regaining the championship title they last held in 2003.

The team finished league play tied for second place with a 7-2 record — the two losses suffered while several key players were TDY. With the same players once again TDY at the beginning of the end-of-season tournament, the Army team lost in the first round and wound up in the loser's bracket of the double-elimination tournament.

But, after two years of finishing the tournament in second place, the team resolved to reclaim the championship title they have held several times over the last decade, the last time in 2003.

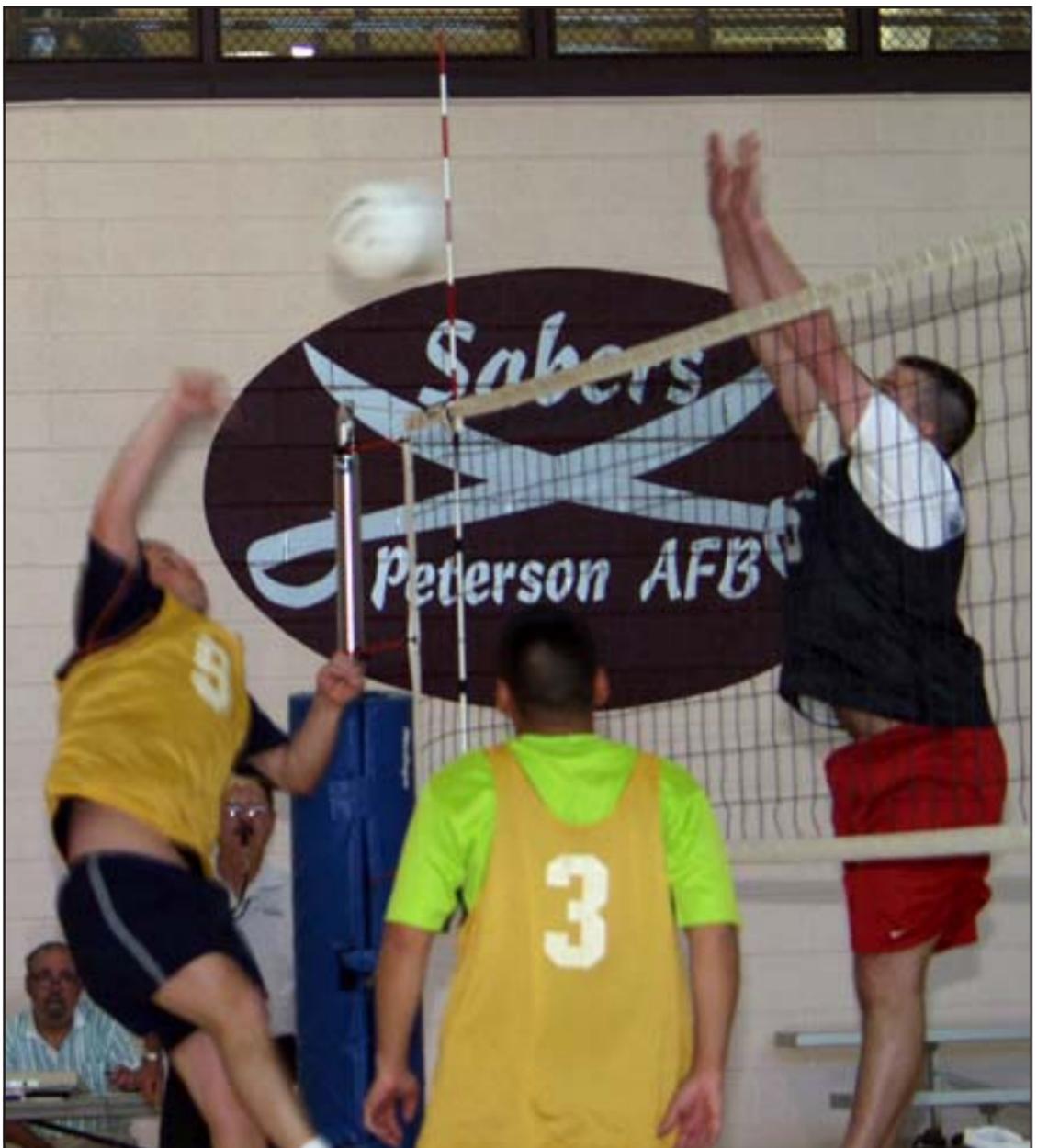
Fighting back through the loser's bracket with wins against four opponents including the league champion 21st Space Communications Squadron, the SMDC/ARSTRAT team found themselves in the finals against Detachment 4, Air Force Operational Test & Evaluation Center, the team they tied with for second place in league play. With Detachment 4 coming from the winner's bracket, the SMDC/ARSTRAT team needed to win two matches against them to take the title. Winning both matches in two straight games each, the SMDC/ARSTRAT volleyball team is once again the Peterson Air Force Base Volleyball Champion.

The volleyball team joins the command's softball team, who won the softball championship last summer, as Army champions on an Air Force Base.

The 2006 SMDC/ARSTRAT volleyball team includes: Tim McDonald, G-6 SSC; Maj. Paul Madsen, G-3; Capt. Jennifer J. Fisher, 1st Space Battalion; Jennifer A. Fisher, G-3 Plans; 1st Lt. John Alban, 100th Missile Defense Brigade (Ground-



SMDC/ARSTRAT regained the title of Peterson Air Force Base Volleyball Champions after finishing in second place for two years. The 2006 team from left to right is: Denny Skiles (assistant coach), G-3 Force Protection; Maj. Christopher Crawford, 1st Space Brigade; Tim McDonald, G-6 SSC; Jennifer A. Fisher, G-3 Plans; Capt. Jennifer J. Fisher, 1st Space Battalion; Maj. Paul Madsen, G-3; 1st Lt. John Alban, 100th Missile Defense Brigade (GMD); and Sharon Hartman (coach), Public Affairs Office. Not pictured: Capt. Todd Tarnoff, 1st Space Battalion; Capt. Tony Tingle, 1st Space Brigade; and Capt. John Brock, G-3 Operations.



Maj. Paul Madsen (9) goes up for a kill against an opponent after a set from Maj. Chris Crawford (3) during the championship volleyball match on Peterson Air Force Base, Colo.

based Midcourse Defense); Capt. Todd Tarnoff, 1st Space Battalion; Capt. Tony Tingle, 1st Space Brigade; Capt. John Brock, G-3 Operations; Maj. Christopher

Crawford, 1st Space Brigade; Denny Skiles (assistant coach), G-3 Force Protection; and Coach Sharon Hartman, Public Affairs.