

ON POINT

MARINES

EQUIPPING THE WARFIGHTER TO WIN

MARINE CORPS SYSTEMS COMMAND MAGAZINE
WINTER 2010, VOLUME 4, ISSUE 1

- ▶ MCSC Works Closely with PEOs
- ▶ Parents Express Gratitude for MCT
- ▶ Snow Blankets Hospital Point

A message from the
COMMANDER



To all team members of Marine Corps Systems Command and Program Executive Officer Land Systems:

Hospital Point was hit hard by several historic blasts of winter weather as Marine Corps Systems Command (MCSC) and Program Executive Officer Land Systems (PEO LS) moved into the New Year. Throughout – and despite – the storms, the Command pressed ahead with its mission to support the warfighter, thanks to Facilities, Services and Supply people who responded again and again to reopen roads and parking lots and keep buildings functioning.

MCSC's struggles against the weather occurred, coincidentally, at virtually the same time NATO forces conducted a large offensive in Afghanistan. Everyone's hard work at Quantico and throughout the Command helped ensure the focus stayed on the success of U.S. and Coalition forces. Our forward-deployed Marines depend on our non-stop efforts on their behalf, regardless of the obstacles we must overcome to make their mission succeed.

This is an example of why MCSC Strategic Plan 2010-2014 is our cornerstone for vision and action. We state up front that "our values and enduring principles will enable Marines to succeed in uncertain, chaotic and austere environments." At MCSC and PEO LS the work we do is critical to our Marines and to the defense of the Nation. Everyone has a role to play. Whether you are an analyst responding to an Urgent Universal Need Statement or a snow-plow driver trying to stay abreast of the weather, the Command and, in turn, the 19-year-old forward-deployed Lance Corporal, depend upon you for support.

Many people throughout MCSC and PEO LS are involved in the Strategic Plan's creation and execution. To succeed, they all need to be familiar with the Plan and how they fit into the big picture. Strategic Plan events are just one means to bring more people into the process. Our Strategic Plan Expo, which also has battled the snow, is now rescheduled for March 31. Whether attending these Strategic Plan events or not, everyone should be an active participant as MCSC refines its roadmap to the future.

As we step forward through 2010, the Command will confront many more challenges. I am confident that we will continue to meet our mission and excel.

Semper Fidelis!

M.M. Brogan
Brigadier General
U.S. Marine Corps

ON POINT

MARINES

Winter 2010,
Volume 4, Issue 1

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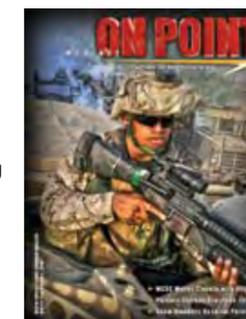
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On the Cover: Lance Corporal Ramon Gutierrez, C Company, Battalion Landing Team, 1st Battalion, 4th Marine Regiment, 11th Marine Expeditionary Unit, mounts the turret atop a 7-ton Medium Tactical Vehicle Replacement (MTVR) truck prior to conducting convoy exercises in Kuwait's Udairi Range. The MTVR is one of eight programs managed by Program Executive Officer (PEO) Land Systems. Marine Corps Systems Command works jointly with PEOs to support the warfighter. See story on Page 19. (Photo by Corporal Ruben Calderon)



Marines On Point is produced and published quarterly by Marine Corps Systems Command's Corporate Communications Directorate. It is an authorized publication for the employees and U.S. military service personnel attached to the Command. Contents of the magazine are not necessarily the official views, or endorsed by, the U.S. Government, the Department of Defense, the U.S. Marine Corps or Marine Corps Systems Command.

SIMULATION TRAINING

TRASYS helps lead the way at I/ITSEC expo

Most military experts quite often agree that, to meet a wide range of threats spanning the full spectrum of war, Marines must possess high levels of skill, speed, agility and flexibility. To acquire these skills warfighters need cost-effective and responsive training systems. This is why Marine Corps Systems Command's (MCSC) Program Manager for Training Systems (TRASYS) continues to invest in modeling and simulation training.

Encouraging that investment to grow, TRASYS participates in the annual Interservice/

Industry Training, Simulation and Education Conference (I/ITSEC) held in late November and early December in Orlando, Fla. Every three years the Marine Corps and Navy join together to form the lead service for the event, and this occurred for I/ITSEC 2009.

"The Sea Services team, led by Service Executives Navy Captain Harry Robinson and Marine Corps Colonel David Smith [Program Manager, TRASYS], and service principals Gary Fraas for the Navy and Brian Kummer [also with TRASYS] for the Marine Corps, worked closely with the Conference Chair and me to provide a program that tied in closely with this year's theme – Train to Fight, Fight to Win," said Dr. Michael Genetti, I/ITSEC Program Chair.

The exposition and conference, a product of the National Training and Simulation Association, promotes cooperation among the armed services, industry, academia and various government agencies in pursuit of improved training and education programs, identification of common training issues and development of multiservice programs.

"I/ITSEC is a great event," Smith told the Show Daily, an I/ITSEC publication. "The synergistic effect of government, industry and academia coming together to provide real solutions for warfighter training requirements is a unique

opportunity. That's why so many people come – not only from across the United States but internationally."

About 19,000 people walked the floors of the exposition and visited nearly 500 exhibits. That included more than 2,000 international visitors from 61 countries. According to Smith, about 50 people out of his total staff of 225 played a role in I/ITSEC.

"They did an outstanding job," the Colonel said. "It's really the planning that goes into this, from the review of the papers that are written, to the setting up of the booths and the exhibits, to working with our VIPs and Marine general officers that we have coming to visit. It's like an iceberg. It's all below the surface. I'm so pleased with the team from PM TRASYS. They really got into it. They had a good plan."

In addition to TRASYS personnel, Kummer said they also coordinated with members of the Marine Corps training systems enterprise.

"That includes the requirements folks at Training and Education Command and the research and development folks of the Marine Corps Warfighting Lab and the Office of Naval Research," Kummer said. "We also work with the Naval Postgraduate School, some of the fuel folks out at Twentynine Palms and the Coast Guard. We try to gather the experts and use them to populate the subcommittees that help form the conference every year."

Besides the subcommittees, there are many additional requirements.

"A lot of our folks also do student tours and veteran tours," Kummer added. "There's a lot of little things that come into play that aren't part of the big planning process, and we need manpower to make these happen. So, we lean on our Marine training units. They'll come in from the reserves, and they'll support our booth displays or whatever we need."



Chief Warrant Officer 4 Kurt Garrett, who supports Marine Corps Systems Command's Program Manager for Ammunition, speaks at the Warfighters' Corner during the Interservice/Industry Training, Simulation and Education Conference in Orlando, Fla. (Photo by Bill Johnson-Miles)

Another task is to find Marine volunteers for the Warfighters' Corner, an I/ITSEC forum where military service members fresh from deployment in Iraq or Afghanistan discuss their experiences and the training they received prior to deployment. This year one of those Marines was Chief Warrant Officer 4 Kurt Garrett who supports MCSC's Program Manager for Ammunition.

"I enjoyed the opportunity to help communicate what type of realistic training aids and simulation scenarios Marines require and want in order to better prepare them for deployment," Garrett said.

From warfighters to reservists to TRASYS team members, it seemed everyone liked supporting I/ITSEC.

"Each year everybody enjoys coming out here," Kummer concluded. "It's like Christmas for the Training Systems folks. It's a chance to see what the latest technology is and to discuss current topics and events – information we can take back to help support our programs. This helps us provide better service and better products to our Marines."

– By Bill Johnson-Miles, MCSC Corporate Communications



Matthew Denney (right) of Marine Corps Systems Command's Training Systems briefs Reps. Suzanne Kosmas, D-Fla., and Randy Forbes, R-Va., about the Behavioral Analysis and Synthesis for Intelligent Training virtual sand table during the Interservice/Industry Training, Simulation and Education Conference in Orlando, Fla. (Photo by Bill Johnson-Miles)



Colonel David Smith, Marine Corps Systems Command's (MCSC) Program Manager for Training Systems, gives Dr. John Burrow, MCSC Executive Director, some tips on how to operate a training simulator during the Interservice/Industry Training, Simulation and Education Conference in Orlando, Fla. (Photo by Bill Johnson-Miles)

Industry representatives learn how to work with MCSC

There had been many Small Business Opportunity Conferences in the past for Marine Corps Systems Command (MCSC), but none of the previous gatherings attracted such a crowd. More than 400 people representing businesses mostly small – and some large – met in November 2009 in Fredericksburg, Va., to hear from MCSC leaders about how their companies could do more work with the Command.

“Small businesses are part of MCSC,” said Dr. John Burrow, MCSC Executive Director. “We offer about \$6 billion worth of opportunities per year.”

These opportunities, he explained, are available in every business and professional area within MCSC. The role of small business is essential, Burrow said, to help MCSC capitalize on innovation and ingenuity, and reduce acquisition costs.

“You bring innovation. You bring new ideas. You bring efficiencies,” he said. “You help us challenge our traditional ways of doing business. You help us instill competition in the work that we do. We have an obligation to give you opportunities, but you have to deliver when we give you these opportunities. We’ve got to have confidence in your products and you must be able to demonstrate to us that your products will meet our needs. Your ideas and innovation help us continue to make a difference and keep an edge for the warfighter.”

Dr. Burrow highlighted needs in which the Command wants industry’s help: lighten the load for warfighters, unmanned systems, energy focus and systems integration. In many of these areas, he explained, a company might not produce an entire system but maybe one of its components.

Going into more detail about how to work effectively with the Command, David Dawson, MCSC Associate Director for Small Business Programs, talked about how businesses fit into the organization’s success formula.

“My vision is to create an environment that will encourage the utilization of small business concerns in supporting the warfighter,” he said. Dawson noted that “small businesses employ

Krista Francom (left) and Laura Caracciolo, of Marine Corps Systems Command’s (MCSC) Contracts Directorate, Business Operations, help a Small Business Conference attendee learn how to find business opportunities at MCSC. (Photo by Bill Johnson-Miles)

more than half of all workers in the United States. Small businesses can quickly respond to customers’ needs. By supporting small businesses, we encourage innovation, competition and the entrepreneurial spirit of the United States.”

Dawson highlighted several initiatives that companies should know about to help them do business with the federal government and MCSC: the Small Business Innovation Research program; Navy Electronic Commerce Online and Federal Business Opportunities registrations; and mentor protégé programs.

“You want to know what Marine Corps Systems Command buys,” Dawson said. “You want to make sure that we buy what you sell. Engage your small business specialist – folks like myself – as your ally, not your adversary.”

Brigadier General Michael Brogan, Commander, MCSC, also encouraged small companies to seek business avenues, yet cautioned that any relationship is a two-way street.

“We need your innovations, your ingenuity, the flexibility that you bring to the workplace, and we will continue to rely on you,” he said. “But I must warn you that we have to achieve the correct balance between what each individual Marine in the field thinks that he needs and what we can then translate into an actual requirement.”

Brogan cited the Commandant of the Marine Corps’ priorities, saying, “It should be no surprise that the very first one is to achieve victory in the long war. Tied just behind that is to ensure that we are adequately supporting those

men and women who are forward conducting combat operations.”

After the Commander described a long list of Marine Corps programs available for business interaction, he concluded with a reminder about often-overlooked military members who also can serve business.

“Don’t forget the Reserve component,” he said. “Many of these Marines are now spending time on active duty. Some of them have made multiple tours into the field of operations. At the end of their tours, they take off their uniforms and put back on their civilian clothes.

“They can get some of that access, the data and some of that information that wouldn’t be readily available to someone who was not in a join status and not associated with the Reserve component,” Brogan added. “So, hiring a Reservist is an absolutely great way to improve your ability to get knowledge and information.”

That, and working with MCSC, he said, are both excellent ways to help small businesses become bigger.

– By Jim Katzaman, MCSC Corporate Communications

Small Business is **BIG**

Small Business Opportunity Conference attendees sign up to meet with Marine Corps Systems Command’s Product Group Directors and Program Managers in November 2009. (Photo by Bill Johnson-Miles)



Retired Lieutenant General Gregory Newbold, the Marine Corps Birthday Ball's guest of honor, delivered the keynote address. (Photo by Lance Corporal Patricia Claypool)



World War II veteran Sergeant Donald Licklider, the 86-year-old grandfather of Major Devin Licklider who works with Marine Corps Systems Command's Unmanned Aerial Systems, receives a piece of the Birthday Ball cake. (Photo by Lance Corporal Patricia Claypool)

Ball celebrates Marines

In November 2009, as many entered the ballroom for the Marine Corps Birthday Ball at the Renaissance Hotel in Washington, D.C., they may have noticed an empty chair and a single lone table draped in black, signifying all fallen Marines.

"They are not with us this evening because they have given the full measure of devotion to our Country and to our Corps," said Ball narrator Chief Warrant Officer 2 Jamila Bransford of Reserve Affairs. "Only a few Americans choose the dangerous and necessary work of fighting our Nation's enemies. As a consequence of that choice, some have paid the ultimate price, joining the honor rolls of heroes who built the noble legacy of our Corps. For those who carry on that legacy, it is our obligation to honor those fallen Marines. As Marines gather in celebration of our history, we gather in the shadows

of greatness. Though our fallen can no longer participate in our traditions, they will always be a part of us in who we are."

The social event of the year honored fallen Marines and celebrated Marine Corps history. This birthday party for Marines included the traditional birthday cake. Brigadier General Michael Brogan, Commander, Marine Corps Systems Command (MCSC), used a sword to cut the cake "as a reminder that we are a band of warriors committed to carrying the sword so that our Nation may live in peace," Bransford announced.

The first piece of cake went to retired Lieutenant General Gregory Newbold, the Ball's guest of honor. The next piece was given to the oldest and youngest present at the time in the Command, "symbolizing the experience and the youthful spirit that hallmarks our Corps."

That honor went to Colonel Frank Kelley, MCSC's Chief of Staff, and Lance Corporal Parrish Dixon (Private First Class at the time of the Ball). "The passing of the cake from the oldest to the youngest Marine symbolizes the passing of history and traditions to the next generation," the narrator stated. Brogan also presented a piece of ceremony cake to a special Ball guest, World War II veteran Sergeant Donald Licklider, the 86-year-old grandfather of Major Devin Licklider who works with MCSC's Unmanned Aerial Systems. Sergeant Licklider participated in the landing invasion of Okinawa in 1945. His grandson represents the third generation in a family of Marines.

Following the cake ceremony, the MCSC Commander introduced the guest of honor.

Brogan served under Newbold when he was the Commanding General of First Marine Division. The Commander's former boss applauded MCSC's accomplishments.

"The fact is that if Marines out there have something to wear, something to eat, something to sleep in or under, if they have something to shoot or talk on, if they have a bandage to apply or a field medical facility to serve in, if they are paid by the Marine Corps Total Force System, anything that happens to Marines, it seems to me, comes through Systems Command," Newbold said. "It's a remarkable testimony to what they have right now. It is the best-equipped Marine force, not only in the gear they have, that ought to be the case every year going forward, but the dramatic improvement in the last seven years is really astounding."

The retired Lieutenant General said he exchanged email with some of his "old friends in the Corps," telling them he was going to be a guest at the MCSC and Program Executive Officer Land Systems Ball. He shared a couple of the email responses with the nearly 900 people in the audience:

"Systems Command has done incredible work on a wartime footing over the past seven years, and they have seen their budget jump nearly tenfold. Their program requirements exploded, particularly in urgent needs statements and with no increase in manpower. They should rest comfortably knowing that they have saved literally hundreds of American lives."

"That was from a guy named General Jim Conway [Commandant of the Marine Corps]," the guest of honor stated, who also shared a second email:

"Our battle-hardened Corps has never been better equipped for any fight than they are today, thanks to the commitment and tenacity of the Marines and civilian Marines at [MCSC]. Nothing conveys better to combat Marines the degree to which they're being supported than does their equipment, all of which finds its way to our lads via Systems Command, who fights the sometimes frustrating bureaucracy and finds a way to place gear in the hands of our warriors. The Systems Command team deserves our deepest appreciation."

"From a guy named Mattis [General James Mattis, Commander, U.S. Joint Forces Command]," Newbold reflected. "It's not said often enough in the day to day of what you do, so please reflect a little bit on what Systems Command means to the Corps and means to the people in the fight, and I thank you for that."

- By Bill Johnson-Miles, MCSC Corporate Communications



A piece of Birthday Ball cake is traditionally presented to the oldest and youngest present in the Command at the time. That honor went to Colonel Frank Kelley (left), Marine Corps Systems Command's Chief of Staff, and Private First Class Parrish Dixon. (Photo by Lance Corporal Patricia Claypool)

Happy Birthday



UNITED STATES MARINE CORPS



MCSC additional events



Dr. Ashton Carter, Under Secretary of Defense for Acquisition, Technology and Logistics, takes questions from the media at a display outside the Pentagon in November 2009. The display highlighted the deployment of the Mine Resistant Ambush Protected (MRAP) All-Terrain Vehicle to Afghanistan. Paul Mann, MRAP Joint Program Manager, is standing behind Dr. Carter. *(Photo by Adam Sanders)*



Brigadier General Michael Brogan (left), Commander, Marine Corps Systems Command, congratulates Colonel Pete Reddy, the new Product Group Director for Marine Air-Ground Task Force Command and Control, Weapons and Sensors Development and Integration during a Change of Charter ceremony in November 2009. *(Photo by Jim Katzaman)*



William Taylor (left), Program Executive Officer Land Systems, receives a scale model of the LW155 (M777) howitzer from James Shields, now the Deputy Program Executive Officer for Ammunition at Picatinny Arsenal, N.J. The event took place during a Program Management Review at Quantico in November 2009. Shields served as the LW155 Program Manager from June 2005 to November 2009. *(Photo by Bill Johnson-Miles)*

During a December 2009 visit to Camp Leatherneck in Afghanistan, Brigadier General Michael Brogan (center), in his role as the Joint Program Executive Officer for Mine Resistant Ambush Protected (MRAP) vehicles, speaks with (from right) Bill Thomas, Major Brian Fulks and Paul Mann. Mann is the MRAP Joint Program Manager, and Fulks is the Site Lead for the MRAP Regional Support Activity. The visit occurred as the first MRAP All-Terrain Vehicles arrived in country. *(Photo by Robert Kinslow)*



Members of the Optics and Non-Lethal Systems program office participated in an Intact Team Simulation Pilot in December 2009. Co-sponsored by the Strategic Change Management Center and Defense Acquisition University, the event was a computer-based simulation of a program office. Each participant had an assigned avatar with a specific role. *(Photo by Bill Johnson-Miles)*



Lonnie Morlet (right) of Chemical, Biological, Radiological and Nuclear Systems talks gas masks with Brian Detter, Deputy Assistant Secretary of the Navy (Research, Development and Acquisition), Expeditionary Warfare, during a visit to Marine Corps Systems Command in December 2009. *(Photo by Bill Johnson-Miles)*



Brigadier General Michael Brogan (center), Commander, Marine Corps Systems Command, oversees a December 2009 Change of Charter ceremony between Gordon Taylor and Colonel Mike Micucci, the new Product Group Director for Ground Transportation and Engineer Systems. *(Photo by Bill Johnson-Miles)*

Marine Corps Systems Command's Strategic Plan Goal Champions and Objective Team Leaders attended a three-day Office of Personnel Management Strategic Leadership Seminar in December 2009. *(Photo by Bill Johnson-Miles)*



Erin Christian of Infantry Weapons Systems and the Marine Enhancement Program discusses new gear with a visiting Marine during the Modern Day Marine Exposition on Marine Corps Base Quantico in October 2009. *(Photo by Bill Johnson-Miles)*

Corby Award

Notre Dame recognizes MCSC Commander for distinguished service

Brigadier General Michael Brogan, Commander, Marine Corps Systems Command (MCSC), received the Reverend William Corby Award during ceremonies in November 2009 at his alma mater, the University of Notre Dame.

Established in 1985, the award is conferred annually on an alumnus or alumna – living or deceased – who has distinguished himself or herself in military service. The award is presented in honor of Notre Dame’s third president who was a celebrated Civil War chaplain of the Union Army’s famed Irish Brigade.

“It is an honor to receive the 2009 Reverend William Corby Award from the Alumni Association,”

Brogan said upon accepting the award. “But it is appropriate to recall the words of General (and later President) Eisenhower: Humility must always be the measure of any man who receives acclaim that was earned by the service and sacrifices of others.”

The MCSC Commander cited the many people throughout the Marine Corps who contributed to the recognition. “Truly it is the effort of large numbers of young Marines, Sailors and civil servants who have earned this award,” Brogan said. “I have been fortunate to have been a member of some tremendous organizations. Those units are made up of talented and dedicated servicemen, service women and, in some cases, government civilians.”

“Just as important,” he added, “they are supported by loving families who also serve our country through their sacrifice.”

Brogan joined the Marines as a Second Lieutenant in 1980 after graduating from Notre Dame with a bachelor’s degree in chemical engineering.

“Attending Notre Dame was a childhood dream,” he said. “I set my sights on going to Notre Dame, and because of a Naval ROTC [Reserve Officers’ Training Corps] scholarship, I was able to attend.

“Even though I never became a practicing chemical engineer,” he said, “the technical education allowed me to understand the engineers and scientists I work with and made me far more effective as a Program Manager.”

– By Jim Katzaman, MCSC Corporate Communications



Brigadier General Michael Brogan, Commander, Marine Corps Systems Command, receives the 2009 Reverend William Corby Award from the University of Notre Dame’s Alumni Association in November during a home football game. (Photo by Captain Geraldine Carey)



Brigadier General Michael Brogan (right), Commander, Marine Corps Systems Command, speaks with University of Notre Dame Reserve Officers’ Training Corps students after he received the 2009 Reverend William Corby Award from the school’s Alumni Association in November. (Notre Dame Photo)

The University of Notre Dame is located in South Bend, Ind. (iStock photo)

Major, MSgt accept awards from Defense, Research and Engineering



Master Sergeant Chris Blackler received the Project Manager of the Year award for the Defense Acquisitions Challenge Program. (Blacker photo)

In November the Director of Defense, Research and Engineering (DDR&E) designated Marine Corps Systems Command's (MCSC) Major Matthew Youngblood and Master Sergeant Chris Blackler as its Project Managers of the Year for fiscal year 2009. Youngblood received his award for the Foreign Comparative Testing Program and Blackler for the Defense Acquisitions Challenge Program.

At the time Youngblood was assigned to MCSC's Armor and Fire Support Systems. He is now Executive Officer, 2nd Tank Battalion, 2nd Marine Division, Camp Lejeune, N.C.

"Major Youngblood distinguished himself through outstanding leadership during the test and evaluation of the M1A1 Multi-Purpose High Explosive 120mm Munitions Project," said Charles Perkins, Director, Complex Systems, DDR&E.

This project satisfied the Marine Corps' requirement to procure a single ammunition round that incorporates the characteristics of the M830 series and M1028 series canister rounds. "It produces greater lethality and significantly increases survivability," Perkins said.

DDR&E recognized Blackler for his leadership during the test and evaluation of the Non-Gasoline Burning Outboard Engine project. The project fulfilled the Department of Defense and Navy requirements to standardize fuels and streamline the logistics pipeline by using diesel fuels readily available on Navy ships.

"Master Sergeant Blackler aggressively combined the integration testing and user evaluation for both the Non-Gasoline Burning Engine and Combat Rubber Raiding Craft Product Improvement Plan, effectively reducing costs while keeping the programs on schedule," Perkins said. "His proactive management and acquisition planning resulted in a successful project with a research and development cost avoidance of \$3 million."

– By Jim Katzaman, MCSC Corporate Communications



Charles Perkins, Director, Complex Systems, Director of Defense, Research and Engineering, presents Major Matthew Youngblood with the Project Manager of the Year award for the Foreign Comparative Testing Program. (Youngblood photo)

Secretary's Cup



MCSC earns two small business awards in three years

For the second time in three years Marine Corps Systems Command's (MCSC) Small Business Program has received the Secretary of the Navy's Cup Award for exemplary achievements. Deputy Under Secretary of the Navy Eric Fanning presented the most recent Secretary's Cup for fiscal year 2008 to Dr. John Burrow, MCSC Executive Director, in November 2009 at the Pentagon.

MCSC primarily earned the award for significantly increasing the number of contracts awarded to small businesses in fiscal year 2008. The Command increased growth over the prior year by 102 percent for Historically Underutilized Business Zone small businesses, by 72 percent for women-owned small businesses and by 233 percent for serviced-disabled veteran-owned small businesses.

According to Dave Dawson, MCSC Associate Director for Small Business Programs, the large increases came about because MCSC aggressively conducted many outreach events that featured presentations to several thousand small-business owners. The

Command also offered counseling to small-business owners to help increase partnerships with the acquisition arm of the Marine Corps.

"MCSC's outreach efforts increased its supplier base, which was key to the Command's successful small-business programs," Fanning stated in the award citation. "Through heightened awareness of the benefits of small-business programs, and focused outreach and training, MCSC exceeded the federal statutory contract award goals for small business and small disadvantaged business by achieving 29 percent and 7.3 percent, respectively, of all business awards."

Two years earlier, MCSC qualified for the fiscal year 2006 Secretary's Cup Award by achieving a 358 percent increase in small disadvantaged business development and a 102 percent increase in service-disabled veteran-owned small business programs compared to the prior year. In fact, of the \$3.7 billion awarded for contracts that year, \$261 million was awarded to small disadvantaged business enterprises. The Command's increased supplier base resulted in 71 percent of all its procurement actions being awarded to small businesses.

– By Jim Katzaman, MCSC Corporate Communications



Dave Dawson, Marine Corps Systems Command (MCSC) Associate Director for Small Business Programs, arranges for an attendee to meet with MCSC program officials at the MCSC Small Business Opportunities Conference and Business Matchmaking Event held in Fredericksburg, Va., in November 2009. MCSC's Small Business Program has received the Secretary of the Navy's Cup Award for exemplary achievements in two of the last three years, fiscal years 2006 and 2008. (Photo by Bill Johnson-Miles)

Project Managers of the Year



HOPE for All

PEO LS manager receives award for helping wounded warriors

The Wiegand Foundation, Inc., provided The Spirit of Hope Award Bronze Medallion. (Photo by David Ulmer)



Joe Finch, Environmental Programs Manager for the Expeditionary Fighting Vehicle Program, received the 2009 Spirit of Hope award at the Pentagon in October 2009. (Pentagon photo)

For almost a decade, Joe Finch has dedicated his time and service visiting and caring for wounded service members from the Washington, D.C., area to New Jersey. The Civilian Marine did not seek recognition. Nevertheless, he has received the 2009 Spirit of Hope award.

The Wiegand Foundation, in coordination with the Office of the Secretary of Defense, the Army, Navy, Air Force, Marine Corps and Coast Guard, established the Spirit of Hope Award military program to recognize distinguished Americans and organizations whose patriotism and service reflect that of Bob Hope.

Finch is the Environmental Programs Manager for the Expeditionary Fighting Vehicle (EFV) Program. EFV, headquartered in Woodbridge, Va., falls under Program Executive Officer Land Systems. After a full day's work, he still finds time to visit patients at the National Naval Medical Center, Md.; Walter Reed Army Medical Center, D.C.; and McGuire Veterans Affairs (VA) Hospital, N.J. Finch also coordinates monthly dinners for hospitalized service members, their families and staff of the McGuire VA Hospital to lift their spirits and show how much people truly care about them.

Since 2002 Finch has been an active member

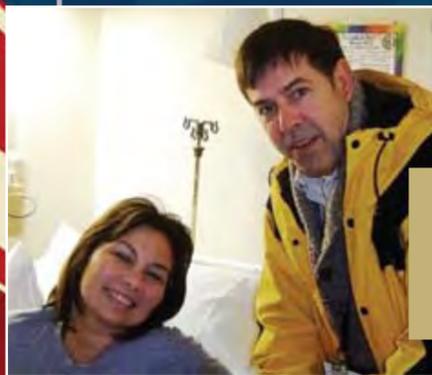
of the Armed Forces Foundation, an organization dedicated to providing support to wounded and hospitalized service members injured in combat and their families through a variety of personal services.

"I always take time to listen to each person's story," he said. "Then I share a few of my own from my days in Vietnam."

After countless hours at all three hospitals visiting and talking with wounded service members at all hours of the day and night, patients have come to refer to Finch as "Uncle Joe." Along the way, he developed special, long-standing personal relationships with several of the injured service members.

"The most important thing I provide is hope," he said. "I want to give everyone hope that tomorrow will be brighter because people care."

— By Jim Katzaman, MCSC Corporate Communications



Joe Finch visits Major Tammy Duckworth at Walter Reed Army Medical Center in 2004. Duckworth is a former Army helicopter pilot whose severe combat wounds in Iraq took both her legs and damaged her right arm. She is currently the Assistant Secretary of Public and Intergovernmental Affairs for the Department of Veteran Affairs. (Finch photo)

Marine Corps Systems Command Awardees

Legion of Merit

Colonel David Karcher
Chief of Staff

Colonel Michael Micucci
GTES

Meritorious Service Medal

Colonel James Fritz
SIAT

Lieutenant Colonel Alan Koenig
CINS

Major Sean Hynes
GCSS-MC

Master Sergeant Darren Dougherty
AMMO



Brigadier General Michael Brogan (left), Commander, Marine Corps Systems Command (MCSC), awards Colonel David Karcher the Legion of Merit. The former MCSC Chief of Staff received the medal during his retirement ceremony in December 2009. (Photo by Bill Johnson-Miles)

Product Group 11 Gunnery Sergeant Jason Whisenhunt receives the Navy and Marine Corps Commendation Medal from Colonel Michael Bergerud, Deputy Director, Systems Engineering Interoperability, Architecture and Technology. Lieutenant Colonel Kenneth Burger holds the citation. (Photo by Bill Johnson-Miles)

Sergeant Duston Sammons
SIAT

Navy and Marine Corps Achievement Medal

Gunnery Sergeant Todd Siau
IWS

Superior Civilian Service Award

Gordon Taylor
GTES

Major Randall Mauldin
GCSS-MC

Captain Sean Donohue
RES MGMT

Chief Warrant Officer 4 Devera Williams
ISI

Master Gunnery Sergeant James Roberts
CESS

Navy and Marine Corps Commendation Medal

Captain Arturo Nagy
CINS

Gunnery Sergeant Wade Clark
SIAT

Gunnery Sergeant Paul Lennan
IWS

Gunnery Sergeant Todd Siau
IWS

Gunnery Sergeant Jason Whisenhunt
MC2I

Staff Sergeant Hee Won Yoon
CINS



Brigadier General Michael Brogan, Commander, Marine Corps Systems Command (MCSC), receives a certificate indicating his successful completion of the Lean Six Sigma Champion/Project Sponsor Workshop from Gregory Boatright. Boatright is MCSC's Director of Continuous Process Improvement/Lean Six Sigma Office. He is also the Command's Lean Six Sigma Master Black Belt. (Photo by Jim Katzaman)



Colonel Michael Micucci accepts the Legion of Merit from William Taylor, Program Executive Officer Land Systems (PEO LS) in December 2009. The Colonel served with PEO LS at the time and is now the Product Group Director of Ground Transportation and Engineer Systems. (Photo by Jim Katzaman)

Marine Corps Systems Command Awardees



Dave Hansen (left of certificate), Deputy Program Manager for the Mine Resistant Ambush Protected (MRAP) Vehicle Joint Program Office, joins other members of the MRAP All-Terrain Vehicle Source Selection Evaluation Board as they accept the Packard Award for Acquisition Excellence in November 2009. (Photo by MRAP JPO photo)

James E. Johnson
ISI

Gordon Taylor
GTES

Federal Length of Service

Joan Woodcock (45 Years)
SCMC

Christopher Enos (25 Years)
CINS

Edith Garland (25 Years)
LCL

Lanetta Gibson (25 Years)
IWS



Staff Sergeant James Cayao takes the oath of enlistment during his reenlistment ceremony in November 2009. (Photo by Bill Johnson-Miles)

Meritorious Civilian Service Award

Thomas Irwin
MC2I

Sonia Kitchen-Oh
ISI

Fred Day
GCSS-MC

Sandra Switzer
CMO

Certificate of Retirement

Colonel David Karcher
Chief of Staff



During his promotion ceremony in January, Master Sergeant Thomas Sharpe of Armor and Fire Support Systems receives his collar devices from his wife Angela and Chief Warrant Officer Scott Justice of Infantry Weapons Systems. (Photo by Bill Johnson-Miles)

Christine Huebner (25 Years)
PROG

Gloria Johnson (25 Years)
GCSS-MC

Jeffrey Keller (25 Years)
GTES

Diana Stone (25 Years)
LCL

Stephen Benjamin (20 Years)
Security

Jason Choi (20 Years)
OFS

Charlene Dempsey (20 Years)
RES MGMT

Ken Jordan (20 Years)
FS&S

Robert Langan (20 Years)
AFSS

Angela Layne (20 Years)
RES MGMT

Patricia Sparks (20 Years)
RES MGMT

Sandra Story (20 Years)
MRAP JPO

Brian Whited (20 Years)
ISI



In November 2009 the Marine Corps Systems Command (MCSC) Strategic Planning Team assembled in two groups to be recognized for its work in creating the original MCSC Strategic Plan 2010-2014. (Photos by Jennifer Gonzalez and Major Naomi Hawkins)

Front & Center

MCSC works jointly with PEOs to support the warfighter

In support of the warfighter, Marine Corps Systems Command (MCSC) works closely with Program Executive Officer (PEO) Land Systems and other PEOs throughout the military. MCSC supports, receives support and/or shares responsibilities with these PEOs.

They include the Army's PEO Combat Support and Combat Service Support (CS&CSS), the Army's PEO Ground Combat Systems (GCS), the Army's PEO Soldier, the Navy's PEO Enterprise Information Systems (EIS), and the Marine Corps' PEO Land Systems (PEO LS), which is co-located with MCSC on Hospital Point at Marine Corps Base Quantico, Va. PEO LS, indeed, draws heavily from MCSC expertise.

MCSC provides critical support to PEO LS by operating and sustaining acquisition infrastructure, and establishing and overseeing standard policies, technical specifications and core processes. MCSC's core competencies spanning Systems Engineering; Configuration Management; Test and Evaluation; Integrated Logistics Support; and Comptroller, Contracting and Legal support, provide an effective competency-aligned workforce.

"Under competency alignment, my staff is aligned to MCSC very much like

a homeroom school concept," said William Taylor, PEO LS. "Under this arrangement, competency-aligned members are not afraid to 'tell the emperor he has no clothes.' It provides the necessary checks and balances to keep things level. Without this arrangement with MCSC, the PEO could not be as effective as it is."

Although PEO LS, established in 2007 as the Marine Corps' first and only PEO, is relatively new, other military services have managed their major weapons programs for the last two decades under the PEO construct. The intent was to streamline the reporting chain between major program managers and their programs' milestone decision authorities, and to bring focused, disciplined attention to higher-dollar, very complex and, in most cases, high-visibility programs.

The role of the PEO is well established in Department of Defense and Navy directives.

In the case of Navy PEOs and PEO LS, they report directly to the Assistant Secretary of the Navy for Research, Development and Acquisition. PEO EIS fits in this

The sun sets behind a Mine Resistant Ambush Protected (MRAP) All-Terrain Vehicle at the Yuma Test Center in Arizona. The MRAP vehicle program is a joint effort led by Marine Corps Systems Command. The Command works closely with the Army's Program Executive Office Combat Support and Combat Service Support, which assists with coordinating requirements, funding, planning and particularly support in the areas of logistics, engineering, and test and evaluation. (Photo by Isaac Rodriguez)

CLOSE
COLLABORATION

category. They work closely with MCSC supporting the next Generation Enterprise Network, which is the Navy Department's Intranet Development Program, and Global Combat Support System - Marine Corps (GCSS-MC). GCSS-MC is under the operational control of PEO EIS, sponsored by the Space and Naval Warfare Systems Command, with MCSC providing administrative, budget and contractual support.

GCSS-MC is the initiative to modernize and transform Marine Corps logistics information systems. "With the support of MCSC, team GCSS-MC will deliver enabling software to the warfighter that will change the model for expeditionary support," said Lieutenant Colonel Jim Stone, Senior Marine

and Change Agent for GCSS-MC. "Our goal is to enable transformation of the logistics model with 21st Century logistics IT capabilities focused on the warfighter's needs."

Hundreds of miles away in Warren, Mich., the Mine Resistant Ambush Protected (MRAP) Joint Program Office (JPO) has a significant workforce under PEO CS&CSS. The PEO assists in coordinating requirements, funding, planning and particularly support in the areas of logistics, engineering and test and evaluation. The Army has provided a Project Manager to serve as the Army Principal Deputy Program Manager (PM), the Deputy PM for Production, three of the product Assistant PMs, and the Logistics and Sustainment PM at Warren.

Gun two from India Battery, 1st Battalion, 11th Marines, 1st Marine Division, fires a sequence of three rounds during a desert fire exercise at Twentynine Palms, Calif., in May 2009. The Lightweight 155mm Howitzer (M777) program falls under Program Executive Officer (PEO), Land Systems, which Marine Corps Systems Command works closely with in addition to many other PEOs. (Photo by Sergeant Whitney Frasier)



Corporal Raul Cardenas, vehicle commander for 2nd Squad, Security Company, Combat Logistics Battalion 5, 1st Marine Logistics Group, prepares a Multi-function Agile Remote Control Robot prior to a 2008 convoy security mission at Camp Baharia in Iraq. The Army's Program Executive Office for Ground Combat Systems works with Marine Corps Systems Command regarding systems integration and unmanned ground vehicles. (Photo by Corporal Tyler Barstow)

collaborates extensively with PEO Soldier across a wide array of products and equipment. These include, but are not limited to, helmets and head-borne systems, ballistic eyewear and hearing protection, body armor and uniforms.

The MCSC web of PEO connections is far flung, yet its most obvious and integral tie is with PEO LS. PEO LS manages a diverse program management portfolio that includes the Marine Corps' largest ground acquisition program, the Expeditionary Fighting Vehicle, the next-generation amphibious forcible entry capability for the Marine Corps. PEO LS also manages the Common Aviation Command and Control System and the Ground-Air Task Oriented Radar.

There are also ground programs such as the Logistics Vehicle System Replacement, Lightweight 155mm Towed Howitzer, Medium Tactical Vehicle Replacement, JLTV and Marine Personnel Carrier. The monetary value of these programs across the Future Years Defense Program is about \$8.3 billion.

"We're significantly different from other PEOs because I don't view us as an autonomous organization capable of functioning on its own," Mr. Taylor said. "I am critically dependent on MCSC for competency support.

"In essence," he said, "PEO Land Systems has program management authority for the assigned program portfolio. I depend upon MCSC to provide all the competency support, contracting, engineering, logistics, etc. I can't operate independently."

The interdependence of MCSC and PEO LS, even more than the Command's relationship with other PEOs, Taylor added, breeds a mutual drive for success.

"I view myself as part of MCSC," he said. "I have their interests at heart. I couldn't succeed unless MCSC succeeds."

— By Jim Katzaman, MCSC Corporate Communications

PEO CS&CSS also has the Project Manager for Joint Combat Support Systems that manages systems such as Joint Light Tactical Vehicles. The Project Manager for Tactical Vehicles works with MCSC on Light Tactical Vehicles and Medium Tactical Vehicles.

Also at Warren, PEO GCS is the "System of Systems Integrator" of the Ground Combat Systems for the armed forces and leads the Army Transformation toward future systems. PEO GCS works with MCSC on systems such as the Joint Lightweight 155mm Howitzer and unmanned ground vehicles, better known as robotics.

The Command also works closely with another Army PEO. MCSC's Infantry Combat Equipment

**ACTION
ITEMS**

Equip to Win

s y s T e m

o f

S Y S T e m S

War Room mimics think tank to identify and tackle issues

They are vastly different systems, yet a Product Group (PG) 12 radio, PG11 radar, PG15 truck and Program Executive Officer, Land Systems (PEO LS) operational facility have a common element. These acquisition systems are constituent parts of a larger system of systems (SoS).

Marine Corps Systems Command's (MCSC) Marine Air-Ground Task Force (MAGTF) and Joint Integration Division under Deputy Commander for Systems Engineering, Interoperability, Architectures and Technology (SIAT) is conducting a detailed technical and engineering analysis of the Ground Combat Element's (GCE) command and control (C2) capabilities.

"By evaluating the GCE's C2 capabilities holistically, the team can facilitate integration across the individual systems and identify opportunities and gaps," said Scott Bey, Branch Head for MAGTF Integration and Certification. "These might not be apparent within the individual engineering efforts of any one system."

The effort is producing a myriad of technical and engineering recommendations. In addition, an Integrated Master Schedule (IMS) is being developed to help understand dependencies and interrelationships between key systems within the MAGTF. The team working this effort and developing the schedule is known as the GCE C2 War Room.

The GCE C2 War Room was chartered in September 2009 and is located off base near the south gate of Marine Corps Base Quantico, Va.

This was a scant three months after the conclusion of the Marine Air Command and Control System (MACCS) War Room that was initiated in January 2009. In that effort SIAT and PEO LS had chartered the MACCS War Room to "develop an engineering and programmatic roadmap for developing affordable and integrated [MACCS systems]."

"Institutionally, we learned a lot from the MACCS War Room effort and leveraged that for the GCE War Room," said Rick Halcisak, Technical Lead for the GCE War Room. "The MACCS War Room methodology involved gathering technical and programmatic information for every system within the scope of the analysis effort. Using this information, and coupled with direct interviews with system and program subject matter experts, the War Room developed comprehensive capability descriptions of systems in two-year cycles, beginning with the 'as-is' SoS employed by the operating forces."

These capability descriptions, he explained, were expressed in terms of a systems list (what's in it), functional views (what it's supposed to do), physical views (how it interconnects), and capability views (what it does) and an integrated master schedule through 2016.

Using these products as tools, the MACCS War Room conducted analysis and evaluation to capture areas of incompatibility, capability gaps, capability overlaps and potential areas of synergy between programs.

"One of the significant findings was the need for a

collaborative acquisition effort across the individual systems that deliver the composite MACCS capability," Halcisak said. "We also had to adopt a system-of-systems approach to the engineering and acquisition of MAGTF capabilities."

As a result, the new GCE War Room is developing the MAGTF SoS Acquisition Roadmap. According to Bey, "This roadmap is emerging as a culmination of engineering products that can aid key decision makers. It provides a more holistic perspective on the MAGTF's system of systems and identifies the role an individual system plays in delivering capability to the warfighter. The goal is to realize opportunities, cultivate cross-program synergies and maximize efficiencies by conducting system-of-systems-level engineering."

As this MAGTF SoS acquisition approach matures, it will have many facets. The team developing the approach acknowledges the task presents a highly complex set of challenges.

"We effectively transform raw data to contextual

understanding, which promotes horizontal integration across systems," Bey said. "This guides key engineering and decision making."

Halcisak believes the "critical evaluation of the Marine Corps and joint interfaces and the systems integration products being developed by the War Room will provide significant benefit to understanding SoS relationships and interdependencies across Marine Corps systems. This will lead to improved efficiency and capability."

He compared the War Room to a technical think tank that will identify, address and help resolve issues.

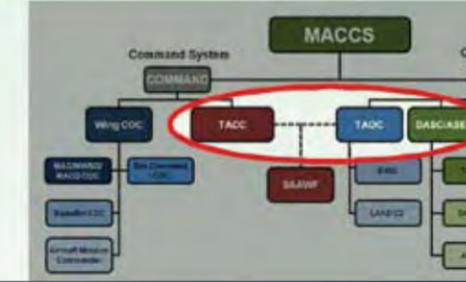
While the approach to ensuring integration across the MAGTF system of systems is still under development, Bey believes it will contain elements and characteristics such as common capability objectives; coordinated SoS requirements; integrated SoS architectures; integrated scheduling; coordinated interfaces and configuration management; integrated testing and certification; funding aligned in support of SoS requirements; and an SoS stakeholders resolution forum.

"This collaborative approach," Bey said, "has provided substantial insight into the interrelationships between systems and to how the Marine Corps can leverage its parts to achieve greater capability for our warfighters."

- By Jim Katzaman, MCSC Corporate Communications



(From left) Scott Bey, Branch Head, Marine Air-Ground Task Force (MAGTF) and Joint Integration Division; Rick Halcisak, Lead Engineer; Jim Sencindiver, Engineer; and Major Trevor Clark, Marine Corps Tactical Systems Support Activity Liaison Officer, discuss the system of systems effort in the Ground Combat Element's Command and Control Capabilities War Room. (Photo by Bill Johnson-Miles)



Schedule
Changes

Parents thankful for deployed son's new equipment

The accompanying email was sent in January by Pete and Rebecca Garcia, the parents of Lance Corporal Stephen Garcia, who was deployed at the time to Afghanistan. The parents expressed their gratitude for the new Medium Crawler Tractor (MCT) 850J, a diesel-powered, medium-size, full-tracked, hydraulic bulldozer used for earthmoving as well as general construction work. The new equipment is experiencing its first combat exposure supporting Operation Enduring Freedom, replacing the 25-year-old D7G dozer used in Iraq. At Marine Corps Systems Command, the MCT falls under Ground Transportation and Engineer Systems.

"My son is a heavy equipment operator currently operating in Afghanistan. After not hearing from him the last month and seeing all the news of heavy combat operations there in Afghanistan, we finally received a phone call from him today. Although he could not talk too much about what they had been up to the

last month or so, he did say they've been very, very busy. His job is to build up fortifications, build berms, cut roads and bring down structures that may hinder ground force operations and anything else they need done. He sounded very spirited, but tired due to the long hours and days without much sleep due to their heavy schedule.

"Last year while serving in Iraq, he would often complain about how slow and sluggish the older dozer models would be and how vulnerable he felt operating them. A slower vehicle makes a good target. Now he is operating the 850J [MCT] and he loves it! He said at first it took some getting used to due to the light touch joy stick operations, quick turning, high speed and strong feel. It was very different from the archaic feeling older equipment they had. Now he can't stay away from it. He says that he has logged so many hours in the last month that, at times, he literally sleeps in it twenty minutes there, thirty minutes there. He feels safe and comfortable with all its power, agility and the up-armor.

"He sounded great on the phone and had a sense of confidence about him as he spoke to me about this dozer. After getting off the phone with him I couldn't help but think that a piece of machinery could make such a big difference. It was all he kept talking about. He absolutely loves operating it. We just want to thank you all ... for making that possible for my son and all those who depend on this equipment. Keep up the good work!"

Sincerely,
Pete and Rebecca Garcia

Lcpl Stephan Garcia, Iraq.jpg (37.2 KB)

According to the Garcias, their son named his MCT "Nowzilla." "Nowzilla was a name derived from operating in Now Zad, an Afghan town the Marines took back from the Taliban last month," the proud parents wrote. "The town was full of IEDs [improvised explosive devices] and very dangerous. This is why the Marines count on this machinery. The other 850J they have had its cockpit blown off by an RPG [rocket propelled grenade]. It has since been put back together and actually has a purple heart painted on the side of it. They are looking forward to their third one coming this month."

— By Bill Johnson-Miles, MCSC Corporate Communications

Medium Crawler Tractor (MCT)



GTES Directorate, PM Engineer Systems
Program Manager: Mr. Bill Macecevic
Project Officer: Mr. Rick Daley

The new Medium Crawler Tractor 850J bulldozer is experiencing its first combat exposure in Afghanistan. (MCT Photo)



Lance Corporal Stephen Garcia (Garcia Photo)



The Expeditionary Field Kitchen (EFK) can be hitched to one large truck and transported easily, according to officials with the Program Manager for Infantry Combat Equipment. The EFK was tested aboard Camp Lejeune, N.C., in November 2009. (EFK Program photo)



The Expeditionary Field Kitchen is made up of one main corridor with two fold-down sides. It was tested aboard Camp Lejeune, N.C., in November 2009. (EFK Program photo)

New Expeditionary Field Kitchen feeds hungry Marines

A large seven-ton truck rolls in and unlatches its trailer. The trailer extends and opens up into a ready-to-use kitchen as cooks immediately hook up a generator and get started on making enough food to feed 500 hungry warfighters in three hours.

According to officials from the office of Marine Corps Systems Command's (MCSC) Program Manager for Infantry Combat Equipment (PM ICE), this new Expeditionary Field Kitchen (EFK) may be the future of food service operations in the Marine Corps. The new kitchen system underwent extensive testing aboard Marine Corps Base Camp Lejeune, N.C., in November 2009. During the five days of testing, with a crew of only six to 10 Marines, 2nd Marine Division Food Service Specialists served about 1,500 meals to personnel from the Base each day.

"The EFK is made up of one main corridor with two fold-down sides," said Jim Allen of PM ICE.

Sergeant Lee McCurdy, a Food Service Specialist with Camp Lejeune (N.C.) Base Food Service, prepares food during the weeklong test of the Expeditionary Field Kitchen in November 2009. The new self-contained system is an improvement over the older Field Food Service System and can be constructed and ready to use in about 45 minutes. (Photo by Private First Class Franklin Mercado)

"This container concept has also been used for other Marine Corps applications including the optics community and communications maintenance community."

The new time-saving equipment took about 45 minutes to construct and become fully operational, a vast improvement over the old Field Food Service System (FFSS), which Corporal Dustin McGowan said was a "logistical nightmare."

"With the old system it took three seven-ton trucks and a crane just to move it to your location," said McGowan, a Food Service Specialist with Marine Wing Support Squadron 272 aboard Marine Corps Air Station New River, N.C. "With the new system, all you need is one truck and you're good to go."

According to MCSC officials, the entire structure can be hitched to a Medium Tactical Vehicle Replacement truck and transported easily, as opposed to the FFSS unit that had to be brought in piece by piece. McGowan added that the kitchen's high mobility and minimal energy consumption have earned the approval of the Marines who operate it.

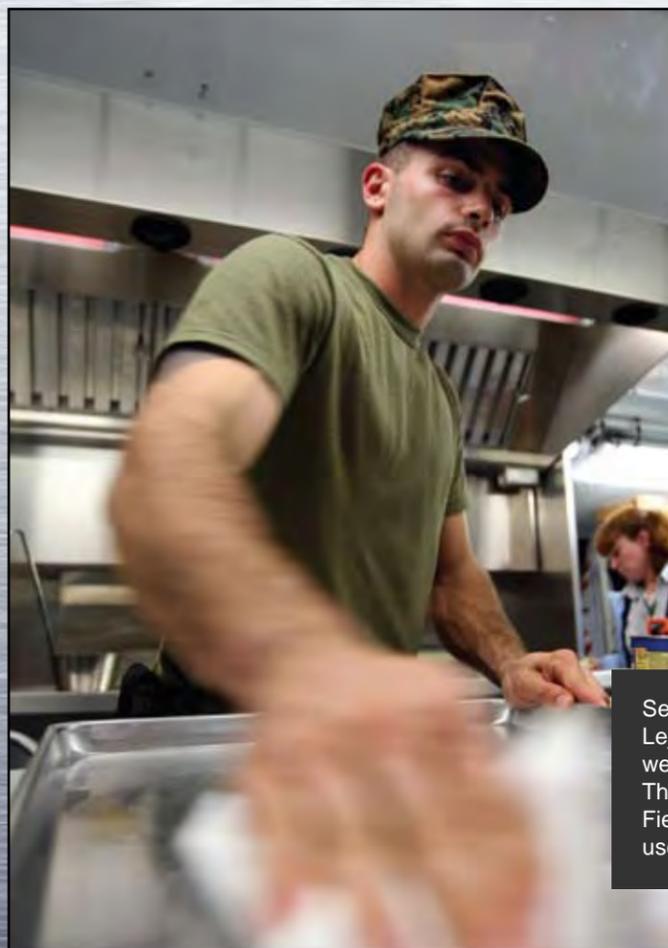
"The older food system took two 100-kilowatt generators or three 60-kilowatt generators to keep it up and running," McGowan explained. "The new system runs off only one 10-kilowatt generator. And with everything being self-contained, it's a lot better for expeditionary units. It works perfectly fine."

According to PM ICE's Stephen Ewing, the new mobile equipment brings a lot of exciting capabilities to the table, including an air-tronic burner system that enables the kitchen's oven and tilt-skillet to share the same heat source, saving costs. The system also contains equipment that Marine Corps Food Service Specialists are accustomed to working with.

"It has been in development for about three years with two previous prototypes," Ewing said. "There is no firm date yet, but we hope to have it fielded as quickly as we can."

Data from the Camp Lejeune testing will be used to continue improving the kitchen. The development will include transportability tests to ensure it can withstand the environments where Marines operate. This testing will take place at Aberdeen Proving Grounds, Md. Officials hope to eventually field more than 100 systems.

— By Private First Class Franklin Mercado, 2nd Marine Logistics Group. Lance Corporal Damany Coleman, Marine Corps Base Camp Lejeune, contributed to this article.



Seaman Apprentice Enns Paul and Seaman Recruit Jesse Kiepper, Religious Program Specialists with 2nd Marine Logistics Group, enjoy a meal made with the Expeditionary Field Kitchen aboard Camp Lejeune, N.C., in November 2009. The kitchen produced 1,500 meals a day, feeding warfighters from all around the installation. (Photo by Private First Class Franklin Mercado)



ARTILLERY 'EYES'

Target acquisition helps big guns in battle

They're few, they're silent, they can't be detected, and they can track a 60mm mortar round from several miles away.

More than 25 Marines from Target Acquisition Platoon, 12th Marine Regiment, 3rd Marine Division, III Marine Expeditionary Force, combed the ranges of Japan's North Fuji Maneuver Area in November 2009 to practice their skills in locating enemy indirect firing positions and to collect weather information during Artillery Relocation Training Exercise 09-03.

The platoon's radar section uses state-of-the-art technology to locate and track indirect fires from enemy positions and determine where the shots originate. The tools the radar section uses for success include the Firefinder Radar and the Lightweight Counter-Mortar Radar (LCMR). Both of these are part of the Family of Target Acquisition Systems (FTAS) managed by Marine Corps Systems Command's (MCSC) Program Manager for Radar Systems.

For Hondo Shaver, FTAS Product Manager for MCSC in Quantico, Va., knowing Marines use and train with his team's equipment takes on a personal significance. "As a former Marine it is incredibly rewarding for me to be able to field critical combat capabilities to my fellow Marines in the fight," said Shaver, a retired Marine Gunnery Sergeant, "especially since

Sergeant Dennis Littlepage (rear) and Private First Class Jesse Fox, both with Target Acquisition Platoon, 12th Marine Regiment, 3rd Marine Division, III Marine Expeditionary Force, stow the data and power cables to the antenna of a Firefinder Radar System during Artillery Relocation Training Exercise 09-03 in Japan. (Photo by Staff Sergeant Marc Ayalin)



my youngest son is among them."

"The Firefinder and LCMR are two of the most critical elements supporting the mission of field artillery, providing accurate and timely counter-fire on enemy indirect fire assets," stated Ed Garrison, a retired Marine Master Sergeant and a defense contractor supporting FTAS at MCSC. "In some instances, the Firefinder and LCMR may be the only 'eyes' the artillery has."

Acquired target locations are forwarded to an artillery unit's fire direction center to calculate how to eliminate the threat, according to Chief Warrant Officer 2 John Crites, Officer in Charge of the platoon in the exercise.

"If we tell you where the enemy shot from, you can bet that's where they're going to be," Crites said.

In reference to artillery, the "King of Battle" howitzer guns, as they are called, may be the heavyweights in the fight, but according to Crites, without the information provided by the Target Acquisition Platoon and the forward observers, the guns would be at a standstill.

During the exercise, the Marines in Japan performed tactical day and night movements that included setting up and tearing down their equipment within minutes. In addition, Crites added, the Marines were careful in selecting each site by considering the radars' ability to observe the battle space. They also checked local security capabilities such as entry and exit routes, and defensive firing positions.

Within the platoon the meteorological team plays an important role in the battlefield as well. One of the ways these Marines collect meteorological data is by using the piloted balloon method.

According to Corporal Mark Castro, a meteorological Marine with the regiment, the Marines monitor the ascent of a helium-filled balloon at various time intervals. As the balloon changes direction, the team determines the wind's speed and direction. The Marines manually track the balloon with an electronic magnetic meteorological theodolite, a

telescope used for measuring horizontal and vertical angles, with the observed azimuth and elevation angles recorded at certain time intervals. Additionally, the Marines factor in the predetermined surface temperature and atmospheric pressure from Department of Defense chart tables of the region.

For the gun line, weather data plays an important role in firing accuracy, according to Castro. It determines how the battery will send rounds downrange.

Whether sending rounds downrange or using state-of-the-art radar technology, according to exercise officials, the Marines performed well despite the majority of the sections being new. Sergeant Dennis Littlepage, Noncommissioned Officer in Charge of the target acquisition platoon, found the exercise and the training very worthwhile.

"For some of my guys, this was their first time out in the field," Littlepage said. "So, it was a good opportunity to hone our skills and build a cohesive team from the bottom up."

— By Staff Sergeant Marc Ayalin, 12th Marine Regiment

Sergeant Sean Joseph, Target Acquisition Platoon, 12th Marine Regiment, 3rd Marine Division, III Marine Expeditionary Force, prepares the antenna of the Firefinder Radar System during Artillery Relocation Training Exercise 09-03 in Japan. (Photo by Staff Sergeant Marc Ayalin)



Corporal Stephen Hunter, Target Acquisition Platoon, 12th Marine Regiment, 3rd Marine Division, III Marine Expeditionary Force, prepares the antenna shelter unit of the Firefinder Radar System during Artillery Relocation Training Exercise 09-03 in Japan. (Photo by Staff Sergeant Marc Ayalin)

IT'S THE CLAW!

Improved Spork resembles something from movie 'Transformers'

Commonly referred to as "The Claw," a new component officially known as the "Improved Spork" resembles something straight out of the movie "Transformers." Its purpose is to augment the capabilities of the existing Mine Resistant Ambush Protected (MRAP) Buffalo articulating arm and provide it with new abilities.

"The ability to grasp objects and rotate them during route clearance missions is a significant improvement to the Buffalo platform," said Timothy Barrons, MRAP Buffalo Project Officer. "The improved controller is very intuitive, and Marines are able to become proficient with The Claw in a very short time."

"These critical improvements allow for more robust interrogation," added Jim Batton, MRAP Joint Program Office's Assistant Program Manager (APM) for the Buffalo.

Based on a requirement from operating forces, The Claw was fully developed by the APM Buffalo Team through Advanced Design and Manufacturing (ADM), a rapid prototyping division of the Edgewood Chemical Biological Center (ECBC) Engineering Directorate. According to APM Buffalo Team officials, ADM



During Limited User Evaluation at Marine Corps Air Ground Combat Center, Twentynine Palms, Calif., "The Claw" demonstrates its ability to grasp objects. (MRAP JPO photo)

was selected to help develop this solution from the ground up.

The project began in September 2008, and the team conducted an initial fielding for Limited User Evaluation in October and November 2009. The Claw was installed on Buffalos at the Engineer Center of Excellence (ECOE) and several Combat Engineer Battalions (CEBs). According to the APM Buffalo Team office, initial feedback was favorable.

"The new Claw controls simplify the use of the Buffalo arm," said Gunnery Sergeant Richard Deay of 3rd CEB. "The time to train a new user is reduced, and the ability to step down on power allows for more precise arm manipulations. This is one of the best upgrades to the arm I have seen since the Buffalo was introduced."

"The Claw is a vast improvement to the Buffalo," added Nick Naquin, an ECOE training specialist. "The new controller is much more user friendly. ... This modification will increase the success of route clearance missions, and in turn, save many lives."

Fielding of The Claw is expected to begin in June or July.

— Submitted by the MRAP JPO APM Buffalo Team



A Buffalo with "The Claw" undergoes Limited User Evaluation at Marine Corps Air Ground Combat Center, Twentynine Palms, Calif. (MRAP JPO photo)

SysCom News



During the celebration of the 200th birthday of Rear Admiral J.A. Dahlgren in November 2009, Naval Support Facility Dahlgren, Va., brought out the big guns, or at least one big gun. This is the first gun fired at the new Dahlgren Naval Proving Ground which occurred on Oct. 16, 1918, a date the base celebrates as its birthday. As part of an early Marine Corps acquisition process, this 7-inch 45-caliber tractor-mounted gun is one of 20 the Marine Corps contracted for and intended to field in France during World War I. However, the armistice was signed Nov. 11, 1918, and thus these new guns lost their chance to prove their worth in the field. (NSF Dahlgren photo)

MCSC transitions from NSPS to AcqDemo

While the Department of Defense (DoD), Marine Corps and Marine Corps Systems Command (MCSC) work to transition out of the National Security Personnel System (NSPS), MCSC employees should expect to complete one more performance cycle of NSPS.

This is because, rather than convert workers to General Schedule (GS) positions, the Command plans to return to the DoD Acquisition Workforce Civilian Personnel Demonstration Project (AcqDemo) early in 2011. The National Defense Authorization Act (NDAA) 2010 language directs that employees be returned to the system they were in prior to NSPS. For MCSC, that is AcqDemo.

The Command's plan depends, however, upon Congress extending AcqDemo through September 2020.

Current DoD AcqDemo authority expires Sept. 30, 2012.

"AcqDemo authority must be extended to make the transition worthwhile," said Jim Irwin, Director, MCSC Workforce Management and Development. "A legislative proposal for the extension is being prepared as part of the 2011 NDAA. Formal approval is likely to occur in the fall of 2010. If AcqDemo extension is approved, we will convert early in 2011."

Meanwhile MCSC is moving ahead on anticipating AcqDemo conversion. April and May will be devoted to designing local AcqDemo communication material and training. July through September will see AcqDemo design information and training at all levels throughout the Command.

Final NSPS pay pools will be

held in October through December along with reviews of job objectives to make sure they are compatible with AcqDemo. January through March 2011 will see final NSPS payouts with initial AcqDemo conversion processing.

"If AcqDemo is not extended," Irwin said, "we will attempt to convert to the Navy Enterprise Performance Management design, if available. Otherwise, we must convert to GS."

Moving ahead with planning for AcqDemo conversion rather than waiting for extension approval, Irwin explained, "will ease our overall transition out of NSPS and into AcqDemo once it happens. AcqDemo's broad banding and contribution-based compensation design served us well before NSPS, and Command leadership has fully endorsed a return to it."

McDermott is Command's newest SES

Ann-Cecile McDermott is Marine Corps Systems Command's (MCSC) new Deputy Commander for Resource Management. She is responsible for MCSC's Financial Management and Human Resource Management departments. Mrs. McDermott was appointed to the Senior Executive Service (SES) in 2002.

Prior to reporting to MCSC, McDermott served as Director of Financial Management and Comptroller for the Aeronautical Systems Center at Wright-Patterson Air Force Base, Ohio. McDermott began her government career with the Air Force in 1987.

The Command's newest SES received her bachelor's degree from the University of Southern California in 1977 and her master's from National Defense



Ann-Cecile McDermott
Deputy Commander,
Resource Management

University in 2001. Mrs. McDermott is a certified public accountant and also holds Acquisition Professional Certifications of Level III in Financial Management and Level II in Program Management. She is a distinguished graduate from the Industrial College of the Armed Forces, a graduate of the Federal Executive Institute and completed the Massachusetts Institute of Technology Seminar XXI program.

Reddy takes command of Product Group 11

Colonel Pete Reddy is Marine Corps Systems Command's (MCSC) new Product Group Director for Marine Air-Ground Task Force Command and Control, Weapons and Sensor Development and Integration, also known as Product Group 11.

"He is particularly well qualified for this demanding position," said Brigadier General Michael Brogan, MCSC Commander.

Reddy, who has served two previous tours at MCSC, is an Air Control Officer and an Acquisition Professional. The Colonel earned a bachelor's degree in Aerospace Engineering from the University of Virginia, a master's in Systems Engineering (Electronic Warfare) from the Naval Postgraduate School and a master's in Strategic Studies from the Marine Corps War College. He is also a

graduate of the Air War College, Top Gun and the Marine Aviation Weapons and Tactics Squadron 1 Weapons and Tactics Instructors Course.

Quantico to host Congressional staffers

More than 350 Congressional staff members are expected to attend this year's "Marine Day" slated for April 30 at Marine Corps Base Quantico.

Sponsored by the House Liaison Office, the purpose of the event is to showcase current and future Marine Corps capabilities. Program Executive Office Land Systems Program Managers and Marine Corps Systems Command product groups, support groups, independent Program Managers and support contractors will provide many displays of systems, equipment and vehicles.



Terri Conte of Marine Corps Systems Command's Communications, Intelligence and Networking Systems speaks with a visitor at the Advanced Planning Briefing to Industry (APBI) in May 2008. This year's APBI conference is slated for April 6 and 7. (Photo by Jim Katzaman)



Lieutenant Colonel David Thompson Program Manager for Robotic Systems

Thompson takes the helm at Robotics

The Robotic Systems Joint Project Office in Warren, Mich., recently welcomed Lieutenant Colonel David Thompson as its new

Program Manager. He reported from the Marine Aviation Detachment at Patuxent River Naval Air Station in southern Maryland where he served as the detachment Executive Officer.

Thompson, a New Hampshire native, enlisted in the Marine Corps in 1982 and served as a machine gunner reservist. In 1991 he was commissioned a Second Lieutenant upon graduation from the University of Massachusetts with a bachelor's degree in Geology and then went to flight school. As a helicopter pilot he participated in Operation Restore Hope in Somalia and Operations Provide Promise, Deny Flight and Joint Endeavor in Bosnia-Herzegovina.

In 2003 he earned a master's in Management from the Naval Postgraduate School and since has served in the Marine Corps acquisition community. In February of 2009 Thompson deployed to Iraq and assisted with the initial fielding of the Directed Infra Red Counter Measures system and initial integration of the Force XXI Battle Command Brigade and Blue Force Tracker (BFT). Traveling to multiple bases in Iraq and Afghanistan, he also assisted in the development of BFT Standard Operating Procedures.

APBI set for April

Marine Corps Systems Command (MCSC) and Program Executive Officer Land Systems (PEO LS) will host the 2010 Advance Planning



Camp Lejeune Marines visit the Marine Corps Systems Command tent at the Marine South exposition in April 2009. This year's event is set for April 21 and 22. (Photo by Jennifer Gonzalez)

Briefing to Industry (APBI) April 6 and 7 at the Marriott Waterfront Hotel in Baltimore, Md. April 5 has been set aside for registration and to be used as a set-up day. The goal of the event is to increase industry awareness of the MCSC and PEO LS requirements and needed capabilities to support warfighters.

During APBI, Marine Corps general officers, high-ranking Navy officials and industry guests will deliver speeches and discuss related subject matter. Invited speakers include Brian Detter, Deputy Assistant Secretary of the Navy (Research, Development and Acquisition), Expeditionary Warfare; General James Conway, Commandant of the Marine Corps; and Lieutenant General George Flynn, Deputy Commandant for Combat Development and Integration.

MCSC Product Group Directors and their Program Managers independent Program Managers and PEO LS will conduct briefs followed by panel question and answer periods. Simultaneously, seminars will be conducted on Commercial Enterprise Omnibus Support Services, "Doing Business with MCSC," small business programs, international programs and additional areas of interest.

Throughout the entire conference, static displays from each MCSC product group, PEO LS, Marine Corps Combat Development Command, Marine Corps Warfighting Lab and Marine Corps Logistics Command will be on exhibit with subject matter experts and support staff in each display area to answer questions or set up appointments for more in-depth meetings.

MCSC heads south to Lejeune

Marine Corps System Command (MCSC) will participate in the Marine South exposition at Camp Lejeune, N.C., April 21 and 22. MCSC will provide static displays representing several of the Command's programs.

Marines from Camp Lejeune and Marine Corps Air Stations Cherry Point and New River will be among the attendees. The event focuses on the user, the Marine warfighter who benefits from the equipment, systems, services and technology that defense contractors and industry will have on display at the event.

GTES welcomes Micucci

Marine Corps Systems Command's (MCSC) new Product Group Director (PGD) for Ground Transportation and Engineer Systems, also known as PG15, is Colonel Mike Micucci. The Colonel didn't have far to go from his previous position as the Military Deputy for Program Executive Officer Land Systems. Prior to that position, he served with MCSC as the Program Manager for Light Armored Vehicles in Warren, Mich.

"Colonel Micucci is a seasoned acquisition professional with 10 years of program management experience in various Marine Corps program offices," said Brigadier General Michael Brogan, MCSC Commander. "He is a proven performer and leader based on his combined operational and program management experience."

The new PGD holds a bachelor's degree in Civil Engineering from Iowa State University, a master's from Western Michigan University and a master's from the Industrial College of the Armed Forces.

"I have the utmost confidence that Colonel Micucci will continue to excel in his new critical role as Product Group Director for PG15," Brogan added.

Second Marine Week travels to Bean Town

Following the great success of the Chicago Marine Week in May 2009, the Commandant of the Marine Corps is sponsoring another Marine Week, this time in Boston. Scheduled for May 2-9, the event's mission is to preserve

Boston will host the Corps' second Marine Week in May. (iStock photo)



and mature the Corps' relationship with the American public, increase public awareness of the Corps' service to country and set positive conditions for recruiting efforts.

Marine Corps Systems Command and Program Executive Officer Land Systems will provide many static displays at the event featuring systems, equipment, weapons and vehicles.

VRE shuttle service available



If you take the Virginia Railway Express (VRE) commuter train to work or you're thinking about it, a shuttle service is available between the train station and Marine Corps Systems Command (MCSC). The shuttle van picks up and drops off commuters near the horseshoe parking area in the back of Building 2200.

The shuttle departs MCSC in the afternoon at 4, 4:30, 5 and 5:30. Near the train station, the shuttle picks up and drops off at the Little Hall parking lot. In the morning it departs at 6:10, 6:35, 7 and 7:40. For more information regarding the VRE shuttle service, call (703) 784-2900. A Common Access Card, known more commonly as CAC, is needed to use this service, which can also be used by defense contractors.

The purpose of the shuttle service is to reduce traffic congestion on Base and increase the number of participants using the Department of Defense's

National Capital Region Transit Subsidy Program to offset individual commuter costs for government employees. For more information on the subsidy program, visit <http://www.whs.mil/DFD/Info/NCRTransitSubsidy.cfm>. Subsidies are disbursed at Quantico's Lejeune Hall, Room 104, and the next disbursements are scheduled for April 13 and 14, May 19, and July 13 and 14.

Birthday Ball volunteers, fundraising ideas needed

The Command's Marine Corps Birthday Ball Committee is looking for new volunteers this year and new ideas for fundraising. Fundraising helps to ensure junior enlisted Marines can attend the annual Ball free of charge. It also helps to offset a portion of the ticket prices.

"Without fundraising, tickets would have cost nearly \$100 each for everyone last year," said Kim Foster, the Committee's Co-chair. "Costs are expected to rise this year, so fundraising is more important than ever."

Every department and unit is encouraged to conduct at least one fundraising event prior to the Ball, according to Foster, and sometimes new fundraising ideas are hard to come by.

"We're looking for some exciting

and fun ideas for fundraising that we can share with everyone," Foster added. "We also need more volunteers to be on the Committee."

To volunteer or submit ideas, contact Foster at (703) 432-3277.

Strategic Plan Expo rescheduled for March 31

Because of severe weather, Marine Corps Systems Command (MCSC) postponed the Strategic Plan Expo originally scheduled for Feb. 11. It has now been rescheduled for Wednesday, March 31, and will be held in the same location where it was originally slated, University of Mary Washington College of Graduate and Professional Studies in Fredericksburg, Va.

During sessions at the Expo, Strategic Plan Objective teams will provide a status on their specific objectives and will seek feedback on their accomplishments and future plans.

"Those selected to attend are expected to fully participate," said Brigadier General Michael Brogan, MCSC Commander. "This is a great opportunity to be an active member of the MCSC team and help shape the future of your Command."

Space restrictions limit the number of individuals who can participate in the Expo but according to Strategic Plan officials, there will be plenty of opportunities in the future for others to contribute. In the meantime, all Command workforce members, whether attending the Expo or not, are welcome at any time to provide input regarding the Strategic Plan by contacting any Strategic Plan Objective Team member, Strategic Change Management Center member or by emailing scmc@usmc.mil.



Marines On Point

For their Marine Corps Birthday Ball fundraising event last year, Information, Systems and Infrastructure sponsored a pie-in-the-face contest. The Birthday Ball Committee is looking for new fundraising ideas this year, and the Committee also needs more volunteers. (Photo by Bill Johnson-Miles)

Spotlight

MCSC team members participate in annual events

Every year Marine Corps Systems Command (MCSC) strongly supports Black History Month.

"I encourage everyone to take time to recognize and celebrate the dedicated service and contributions of African-Americans, both past and present, to our Nation and Corps," said Brigadier General Michael Brogan, MCSC Commander.

Many MCSC members take the Commander's words to heart, and every year in February they join other Quantico individuals performing on stage at Little Hall in the Black History Month presentation and/or attending the Black History Month Prayer Breakfast at the Clubs of Quantico. For these people observing Black History Month is significant.

"It's important to participate," said Nic Harris of the Chief Management Office. "There's not a better reason to come together as one unit to remember, teach, encourage, inform and enlighten, as well as obtain the necessary fuel to press forward."

"Black history is American history," added Sally Hall of Communications, Intelligence and Networking Systems. "If more folks would realize that we are all one and acknowledge the contributions made by many, then our Nation would be better for it. I have been involved in the Black History



observance in an effort to tell the story of a people, one that may not always be pretty, but a story that needs to be told."

Besides telling a story or delivering a message, some feel that it is important just to give back to the community.

"I enjoy the art of volunteering," said Sheena Stitt of Corporate Communications. "There is so

much we can do to give back in today's society. Just by giving one can learn the lessons of receiving."

"I'm involved because I enjoy using my gifts in any capacity," added

Harris, who sang the National Anthem at the Black History Month presentation.

Their participation in the observance of Black History Month is not only important, it's their gift to the community.

"Black history is American history."

— By Bill Johnson-Miles, MCSC Corporate Communications



Sally Hall of Marine Corps Systems Command's Communications, Intelligence and Networking Systems rehearses for the Black History Month presentation held annually in February at Quantico's Little Hall. (Photo by Bill Johnson-Miles)



(From left) Patricia Everette of Marine Corps Combat Development Command joined Toni Lloyd and Jonnie Henderson of Marine Corps Systems Command's International Programs at the Black History Month Prayer Breakfast held in February at the Clubs of Quantico. (Photo by Bill Johnson-Miles)



Timothy Sullivan, Maintenance Supervisor for Facilities, Services and Supply, helps clear the roads at Hospital Point Dec. 20, 2009, after a storm dumped 20 inches of snow on Quantico.



Snow Blankets



Allen Kerns, along with eight other members of Facilities, Services and Supply, worked 37 hours during a three-day period following the huge snow storm that hit the Marine Corps Systems Command campus Dec. 19, 2009.



Photos by Bill Johnson-Miles





Snapshots

During the Command's Marine Corps Birthday Ball fundraising golf tournament at Quantico's Medal of Honor Golf Course in October 2009, Anthony Parker (left) and Cavanaugh Bradshaw, both of Facilities, Supply and Services, measure the distance between the golf ball and the hole. Parker won the tourney's "Closest to the Pin" contest. The tournament's winning team with the low score of 56 included Bill Macecevic, Phil Salinas and Phil Farnum. (Photo by Bill Johnson-Miles)



Even though Crystal Bowser works for Security at Marine Corps Systems Command headquarters, these turkey vultures didn't pay any mind as they claimed her car one afternoon in October 2009. (Photo by Bill Johnson-Miles)



Staff Sergeant Tom Gilbertson (left), the Command's Toys for Tots coordinator, is assisted by Lance Corporal Chris McIntyre in December 2009. (Photo by Jim Katzaman)



Command Marines take part in the annual combat fitness test in November 2009. (Photo by Jim Katzaman)

Command Marines raise the Marine Corps Systems Command's garrison flag on the Marine Corps' birthday in November 2009. (Photo by Bill Johnson-Miles)



Members of Security and Systems Engineering Interoperability, Architectures and Technology model their Halloween costumes in October 2009. (Photo by Bill Johnson-Miles)



The Den 2 Cub Scouts of Pack 142 out of Stafford, Va., assisted (from left) Lance Corporal Seth Kellogg, Corporal Adrian Silva and Private First Class Parrish Dixon with lowering Marine Corps Systems Command's garrison flag at the end of the day on the Marine Corps' birthday in November 2009. (Photo by Bill Johnson-Miles)



Capt. Tony King, Marine Corps Systems Command (MCSC) Staff Secretary, poses with his "date" during the Hughes Adult Day Care facility's "USO Social" in October. King, along with a few other MCSC Marines, volunteered to accompany residents during the event at the facility in Fredericksburg, Va. (Photo by Barb Hamby)



Members of the Command enjoy the holiday potluck luncheon sponsored by Life Cycle Logistics in December 2009. (Photo by Bill Johnson-Miles)



Resource Management's Kelly Sims receives a door prize from Mac McManus, Family Readiness Officer, at Marine Corps Systems Command's holiday party in December 2009. (Photo by Bill Johnson-Miles)

Volunteers show their empty containers following the Marine Corps Birthday Ball chili fundraiser in November 2009 sponsored by Resource Management and Programs. (Photo by Jim Katzaman)



Marines On Point encourages members of the Command to submit snapshots of co-workers. Printed photos may be delivered to magazine staff members in Building 2200, Room 153, or mailed to *Marines On Point* magazine, Corporate Communications, 2200 Lester St., Quantico, VA 22134. High-resolution digital photos may also be emailed to MCSCPAO@usmc.mil. Please identify all people in each submitted photo and the person who took each photo as well.

Marine Corps Systems Command
Program Executive Officer Land Systems

ADVANCED PLANNING BRIEFING TO INDUSTRY



APRIL 5-7, 2010

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