SSC Atlantic’s IDS Portfolio teams with SSC Pacific
SSC Atlantic Commanding Officer Capt. Mark Glover talks to students at Colleton County High School Feb. 20. Story on page 4.
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SSC Atlantic Integrated Decision Superiority Portfolio IPTs are teaming with SSC Pacific partners and building a culture of efficiency.

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SSC Atlantic’s STEM outreach grows in scope, volunteer participation and fun as another school year wraps.

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**On the cover**

The IDS Portfolio understands the value of teaming, and collaborates with SSC Pacific on projects that deliver quality products and services to the warfighter. Story on page 5. Cover design by Wendy Jamieson and Joe Bullinger.

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**SSC Atlantic Mission, Vision and Values**

**Mission:** To rapidly deliver and support solutions that enable information dominance for our Naval, Joint, National and Coalition Warfighters.

**Vision:** Make IT Count for the Warfighter and the Nation.

**Values:** Service to our country, Excellence and Credibility, Transparency in the way we conduct our business, Responsive and Accountability, Diversity and Teaming.

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**Goals**

Strategic effects that provide innovative solutions for today, tomorrow and beyond.

Operations management that delivers solutions with quality, speed, agility and value.

Organizational development that empowers each individual to make a difference.

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The Chronicle is a quarterly publication designed for SSC Atlantic employees. Its purpose is to inform, educate, entertain and generate new ideas.

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As the 2012-2013 academic year comes to a close, we are wrapping up another successful Science, Technology, Engineering and Math (STEM) outreach season that now involves hundreds of volunteers throughout SSC Atlantic.

Our outreach program has grown in the number of dedicated employees volunteering their time, in the number of events in which we participate, and in the number of schools and students we are engaging in this important endeavor. This year we took part in a trebuchet competition at The Citadel (a SPAWARRIOR team captured the Overall Centurion Distance Award), Girls Day Out and the Palmetto Cyber Defense Competition (PCDC), in addition to recurring events such as Robotics FIRST Lego League (FLL) and FIRST Robotics Competition (FRC) teams, summer STEM academies, DimensionU, SeaPerch, Math Counts, IT Shadow Days, Project Lead the Way, cyber clubs, National Society of Black Engineers (NSBE) Junior chapters and career fairs. SSC Atlantic engineers also worked side-by-side with high school educators to develop Material World Module (MWM) and Tabula Digita programs that feature exciting new strategies to engage students in STEM disciplines.

While SSC Atlantic has a long-standing commitment to many of these STEM outreach programs, this year we made new strides to answer our nation’s future needs in the cyber security domain.

Recently SSC Atlantic Cyber Security Outreach volunteers participated in the Palmetto Cyber Defense Competition (PCDC), which pitted high school and college Blue teams against SSC Atlantic Red team hackers as they try to defend their networks and provide uninterrupted services. SSC Atlantic volunteers have also helped develop cyber security courses to be taught to South Carolina students, set up cyber security clubs at high schools, and will participate in the Lowcountry Tech Academy Cyber Security Summer Camp to help train teachers for the newly adopted Cyber Security Fundamentals course. Students attending the camp will learn about cyber security through hands-on activities and exercises.

Our expanded emphasis on cyber security reflects our Navy’s and our nation’s need to dominate in the information realm – in cyberspace – as well as the maritime domain. Over the past several years, nation states, terrorist organizations, “hacktivist” groups, organized criminals and individual hackers have attempted to exploit Navy networks. Cyber-space threats already pose a critical national and economic security concern to the U.S. due to our dependence on information in nearly all aspects of society. So this new “center of gravity” for maritime warfare is being mainstreamed into the Navy as an operational discipline alongside air, surface and submarine warfare.

I am especially proud of SSC Atlantic’s efforts to inspire and engage students to pursue the STEM careers our nation needs for the future. As I told students from Colleton County middle and high schools during a recent visit to Walterboro, I will always be grateful to the educators there who influenced me and gave me the confidence to pursue the path that I chose.

Our outreach programs give our volunteers the opportunity to serve as positive role models, sharing valuable information on the career opportunities that await today’s students who choose STEM careers.

SSC Atlantic benefits from both of these volunteer efforts in several ways. First, our volunteers enjoy these activities. Second, it helps enrich the recruiting pool we’ll need at SSC Atlantic and for our nation in the future. We need to engage and attract the future naval scientists and engineers to fill the pipeline for tomorrow’s high-tech jobs in government and defense. These outreach activities, along with our partnerships with colleges and universities, are helping us reach our strategic goal of providing innovative solutions for today, tomorrow and beyond. In the end, these activities help preserve our nation’s great strength.

I am very grateful for the efforts of our many STEM outreach volunteers. Their endeavors are worthwhile and imperative: to cultivate future generations of scientists and engineers who will push the envelope further and competitively launch SSC Atlantic into new frontiers.
Capt. Amy Burin

Capt. Amy Burin will relieve Capt. Mark Glover as commanding officer of SSC Atlantic in an early August ceremony in Charleston.

Burin comes to SSC Atlantic after serving in the office of the Chief of Naval Operations in Washington, D.C., in the Information Dominance Directorate (OPNAV N2/N6) as Resource Sponsor for Navy Space Systems. She has an extensive background in Space Systems, Communications, Network and IT Systems, and in critical positions outside the Navy, including work with the National Reconnaissance Office and the State Department.

An Information Professional in the Information Dominance Corps, Burin is a fully qualified Program Manager, member of the Acquisition Corps and the Navy Space Cadre, and a designated Joint Specialty Officer.

She began her officer career as a graduate of the Ocean Systems Officer Course and is an experienced Integrated Undersea Surveillance System (IUSS) Officer with subspecialties in Intelligence and Antisubmarine Warfare.

In December of 1996, Burin graduated from the Naval Postgraduate School with a master’s degree in astronautical engineering-space systems engineering. She has twice been selected as a naval astronaut candidate to NASA’s Astronaut Candidate Program.

Burin served tours in Baghdad, Iraq as the Director of Information Technology for the Department of State’s Project and Contracting Office, and in Bahrain as the Deputy Assistant Chief of Staff for Communications and Information Systems and Deputy Director of Communications.

She is entitled to wear the Information Dominance Warfare Officer pin and the IUSS breast insignia, and was awarded the National Reconnaissance Office Director’s Circle Award (for the top 1 percent of NRO employees) for exceptional dedication to duty and the National Reconnaissance Office Silver Medal Award for excellence in leadership and performance.

Glover will report to Program Executive Office for Command, Control, Communications, Computers, and Intelligence (PEO C4I) in the Communications Program Office (PMW/A 170) as major program manager for Navy Communications and GPS Navigation Programs Office. PMW/A 170 provides satellite, line-of-sight and extended-line-of-site communication systems for voice and data communications and GPS capabilities for ship navigation, command and control systems and weapons systems.

West assumes charge at NCR detachment

Cmdr. Brent West assumed duties as Officer-in-Charge (OiC) of SSC Atlantic Detachment National Capitol Region (NCR) May 23 at Washington Navy Yard. In this assignment he will interface with key customers in the NCR region such as PEO-EIS and U.S. Fleet Cyber Command/10th Fleet.

West holds a bachelor of science degree in electrical engineering from the U.S. Naval Academy. He completed Navy Nuclear Power School in Orlando, Fla., and nuclear prototype training in Ballston Spa, N.Y., before reporting aboard USS Pintado (SSN 672) in December 1995 as Reactor Controls Division Officer and Machinery Division Officer. He subsequently served on USS Kamehameha (SSN 642) as Damage Control Assistant.

In 1999 West left active duty and earned a master of science degree in aerospace engineering from the University of Michigan. He joined the Naval Reserves at Selfridge Air National Guard Base in Michigan. In 2001 he worked at Johnson Space Center in Houston, Texas, as a flight control engineer for the International Space Station and continued his Naval Reserve service at Naval Reserve Center Houston.

West rejoined active duty in 2003 as an Engineering Duty Officer (EDO) at Pearl Harbor Naval Shipyard. In 2006 he was assigned to SPAWAR Space Field Activity in Chantilly, Va., as a research and development program manager in the Advanced Systems & Technology Directorate of the National Reconnaissance Office.

In 2009 he completed a nine-month deployment to Camp Victory, Iraq as an engineering and fielding officer for Joint Counter Radio-Controlled Improvised Explosive Device Electronic Warfare Composite Squadron One (JCCS-1) command. West was assigned to SSC Pacific from 2010 to 2013 as OiC at SPAWAR Systems Facility Pacific, Guam.

West holds a PhD in physics from George Mason University.
CO visits Walterboro

SSC Atlantic Commanding Officer Capt. Mark Glover proved author Thomas Wolfe wrong by showing you can “go home again” when he visited Walterboro middle and high schools students Feb. 20.

The captain talked to the students at both schools about the opportunities given to him in the Colleton County school system, and how those experiences shaped his career and life today. “I will always be grateful to the educators who influenced me during my school years in Walterboro. They helped shape my character and gave me confidence in my abilities,” he said.

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IDS Portfolio teams with SSC Pacific

Developing solutions that enable superior decisions

By Holly Quick
SSC Atlantic Public Affairs

The Integrated Decision Superiority (IDS) Portfolio effectively delivers solutions with the highest degree of integrity to enable superior decision making, while denying the same to our adversaries in all domains.

As a CAO/IPT organization, SSC Atlantic is committed to assembling the very best team from throughout the organization for each project, ensuring the right expertise and capability for each customer’s needs. The IDS Portfolio understands the value of teaming, and collaborates with SSC Pacific on many projects to increase the quality of products and services.

“As we respond to customer requirements, it’s important to consider what’s best for our customers and the overall SPAWAR organization,” said IDS Portfolio Strategic Operations Manager Tom Gwiazdowski. “Our IPTs are doing great work and by teaming with our partners in SSC Pacific, we’re also building a culture of efficiency. We’re striving to reduce the number and cost of IT systems and configurations throughout the Navy, while delivering quality, speed, agility and value.”

The IDS Portfolio is made up of six sub-portfolios including Air Traffic Control (ATC); Battlespace Awareness; Special Reconnaissance, Surveillance & Exploitation (SRS&E); National Capital Region (NCR) IDS; Cyber Assurance Security Engineering (CASE); and Mission Command.

Sub-portfolios under IDS regularly collaborate with SSC Pacific by sharing resources and skill sets to enable the rapid transition of promising, emerging technologies into future warfighting, homeland security and U.S. government solutions.

The Shore ATC IPT, of the ATC Sub-portfolio, teamed with SSC Pacific on a Base Realignment and Closure (BRAC) project at Robins and McGuire Air Force Bases (AFBs). The Shore ATC IPT worked very closely with SSC Pacific in providing precision approach radar (PAR) for both AFBs. SSC Pacific procured the systems and SSC Atlantic performed program management, coordinated BRAC funds for the different activities at each AFB to perform the site preparation, funded the PAR system manufacturer to inspect the site preparation, and procured test and maintenance equipment for the systems. SSC Pacific and SSC Atlantic were both present for the Federal Aviation Administration

Continued on next page
Flight check at Robbins AFB and participated in the acceptance of the PAR and remote operations facility.

“We have a great relationship with SSC Pacific, each of us having clearly defined areas of responsibility assigned by NAVAIR PMA213,” said ATC Sub-portfolio Lead Philip Braswell. SSC Pacific is responsible for air navigation aids and landing systems, while SSC Atlantic is responsible for ATC communications, radars and overall ATC facility engineering and configuration data management for shore based ATC systems. “We work hand in hand with each other and depend on each other’s engineering expertise,” Braswell said.

NCR IDS Sub-portfolio’s USCYBERCOM/COM10th-FLT IPT demonstrates how the two systems centers work together successfully to support one customer. Both SSC Atlantic and SSC Pacific have personnel supporting Marine Forces Cyber Command (MARFORCYBER), located in Columbia, Md. IPT Leads from both systems centers hold a regular biweekly sync to discuss the latest on MARFORCYBER support, resource and funding concerns. “Demand signal confliction is handled non-competitively, and in the best interest of the warfighter,” said USCYBERCOM/COM10thFLT IPT Lead Jeff Bullock. “Together, we created a joint project management plan between Atlantic and Pacific.” They assigned a local, on-site SPAWAR lead to act as the focal point, to avoid confusion for customers when working with two systems centers. The local lead acts as the single reach back point of contact for MARFORCYBER, which provides seamless transparency and ultimately the end goal, engineering expertise.

The Joint Command Operations Center (JCOC) IPT, of the Mission Command Sub-portfolio, collaborated with SSC Pacific on the planning, design, engineering and implementation of the EUCOM Mission Command Center (EMCC). Completed Jan. 21, the EMCC was designed and engineered to support the demanding missions and constant readiness required for effective strategic level command and control of U.S. military forces. SSC Pacific employees embedded with the EUCOM J6 staff were aware of the customer’s requirements and reached out to SSC Atlantic’s JCOC IPT to perform the work. The embedded SSC Pacific employees represented the J6 staff at weekly meetings and helped coordinate and facilitate important events such as scheduled network downtimes and working with the operations and maintenance support contractor. The JCOC IPT provided EUCOM with modernized systems, equipment, software, and information management processes to boost the command’s ability to handle operations within their area of responsibility in a more expedient manner. The state-of-the-art EMCC enables communication and collaboration through highly configurable spaces and unique system design.

“The innovative EUCOM Plans and Operations Center design concept was forward leaning in almost every respect, especially in the audio/visual information systems hardware, software interface programming and EMCC room architecture,” said Mission Command Sub-portfolio Lead Systems Engineer Donovan Lusk. SSC Atlantic procured and integrated hundreds of unique products, with thousands of individual components and pieces, without precedent for a mission command center.

“To perform this work, we assembled an Integrated Project Team comprised of subject matter experts from M.C. Dean, EUCOM Operations, Logistics, Intelligence and Knowledge Development, Anti-terrorism/Force Protection, the U.S. Army Corps of Engineers, the local Directorate of Public Works, and other key agencies to coordinate a successful system deployment,” Lusk said.

Through teaming and collaboration that spans across SPAWAR systems centers, military commands and even continents, the IDS Portfolio effectively delivers high-tech solutions with the highest degree of integrity to enable superior decision making.
New Professionals All Hands

Inspiring the future leaders of SSC Atlantic

By Holly Quick
SSC Atlantic Public Affairs

More than 180 New Professionals (NPs) from across the command came together for the third annual New Professional All Hands April 2 and 3. This year’s theme, “Your Life, Your Career,” focused on pursuing individual goals and achievements.

Organized by SSC Atlantic’s New Professional Council, the two-day lineup of speakers and activities equipped NPs with the resources to grow and develop as they prepare to become the future leaders of the command.

NPs in Hampton Roads, the National Capital Region, New Orleans and Tampa attended via DCO and video teleconferencing (VTC), with a local representative at each site to ensure the event ran smoothly.

SSC Atlantic Executive Director Christopher Miller and Commanding Officer Capt. Mark Glover kicked off the event by speaking to NPs about SSC Atlantic and the direction of the Navy working force, followed by a question and answer session.

Miller talked about the importance of getting back to our roots, focusing on innovation and understanding the operational environment. He stated that good ideas often come from nontraditional places and encouraged NPs to share their innovative ideas. “This is an age where we really need to be pushing the envelope. We need to figure out innovative ways to get our processes to support us,” Miller said.

Glover encouraged NPs to stay connected with the warfighter and understand their needs. “No matter what we do across this organization, whether we’re in engineering, finance, contracts, legal, operations, whatever we do, as an organization, as we all work together bringing together our capabilities and taking those to the warfighter, it’s about making sure we stay connected to what they need,” Glover said.

NPs later had the opportunity to connect with those in

Continued on page 28
Sharing SSC Atlantic’s cyber expertise

Cyber security is a critical issue in our everyday lives, for our national security and for SSC Atlantic. To deal with the complexities of this challenge, SSC Atlantic employs all kinds of cyber security professionals, specializing in areas ranging from information assurance (IA) to information warfare (IW) and cyber ops.

Computer scientist Bill Littleton knows the many threats and dangers in the cyber realm, and is on a personal mission to educate others. Assigned to SSC Atlantic’s 5852, he also teaches various aspects of information assurance at Capitol College in his home state of Maryland, and he works with area schools in cyber clubs and Blue/Red team cyber competitions. He helped create two courses on cyber security that will be given to South Carolina students next academic year, and he recently gave two classes in Charleston hosted by the Association of Old Crows Palmetto Roost.

Littleton, a U.S. Coast Guard retiree, is also SSC Atlantic’s cyber forensics IPT lead.

He condensed a college-level Cyber Technologies 101 course to two hours and presented it to more than 115 government employees and industry partners Jan. 15, and followed up with Cyber Technologies 201 class March 12.

The first class began with the evolution of the Internet and cyberspace — the global network of interdependent IT infrastructure, telecom networks and computer processing systems. As Littleton noted, the technology has advanced at a startling rate, and cyber criminal exploitation has also proliferated. He discussed hackers’ attack methodologies, such as scanning, footprinting, intel gathering, password cracking, social engineering, phishing, malware and others.

“IA has to find a balance between security and functionality,” Littleton said, adding that confidentiality, integrity and availability are the pillars of information assurance. Building a secure organization starts with identifying critical infrastructure; developing comprehensive security plans including policies, standards and guidelines that are tied to business operations; implementing a training program; actively conducting risk management; maintaining awareness (monitoring threats); and knowing your environment.

The top security controls that are necessary are inventories of authorized and unauthorized devices and software; malware defense; application security; secure configurations of hardware and software; wireless device controls; data recovery; security skill assessments and training; and secure configurations for all network devices.

The March 12 Cyber Technologies 201 class focused on real malware cases, advanced persistent threats and malware myths. The class also explored the need for penetration testing and offensive countermeasures, and some of the tools used for these purposes.

As recent events clearly demonstrate, cyber threats are... Continued on next page
Cyber criminals evolving

In the early 1960s, universities with huge mainframe computers became staging grounds for hackers. At first, “hacker” was a positive term describing a person with a mastery of computers who could push programs beyond what they were designed to do. Twenty years later hacking had taken on a more malevolent meaning.

By 1983 the FBI made one of the first arrests of hackers, busting six Milwaukee teenagers who had broken into more than 60 computers including the Memorial Sloan-Kettering Cancer Center and Los Alamos National Laboratory.

In 1994 two hackers identified as “Data Stream” and “Kuji” broke into Griffith Air Force Base, NASA computers, the Korean Atomic Research Institute and hundreds of other systems. When arrested by Scotland Yard detectives, Data Stream, a 16-year-old British teenager, curled up in the fetal position and cried. Kuji was never found.

In 1995 Russian hacker Vladimir Levin was arrested in Britain on charges he used his laptop to illegally transfer at least $3.7 million from New York’s Citibank to accounts around the world controlled by him and his accomplices.

In 2000, a 48-year-old man fired from his job at a sewage treatment plant in Australia remotely accessed his former workplace’s computers and poured toxic sludge into parks and rivers. He hoped the plant would rehire him to solve the leakage problem.

In 2010, an amorphous group of “hacktivists” calling themselves “Anonymous” launched a flurry of Denial of Service attacks toward Visa, Mastercard, Amazon and Paypal, among others, to protest their withdrawal of financial and structural support for WikiLeaks.

Whether they do it for financial gain, for ideological reasons or just for fun, hackers have come to present a very dangerous threat to significant worldwide investments in information, communications and technology improvements. They can cripple government and financial networks, deny critical infrastructure support and response, and require millions of dollars in cleanup after security breaches.

With the rapid adoption of smart phones and high-speed mobile devices — along with constantly improving broadband networks and new consolidations and partnerships among public-sector agencies — governments are offering information and services online like never before. And cyber criminals are also evolving to pose new threats.

In response, the Secretary of Defense established USCYBERCOM in June of 2009, and in January of 2010 the Tenth Fleet was reactivated as the Navy’s U.S. Fleet Cyber Command/10th Fleet, with both joint and Navy responsibilities, to confront a new challenge to our nation’s security in cyberspace.

“Warfare in the EM spectrum and cyberspace is much more challenging than in other domains such as undersea or in the open ocean. The web and spectrum are crowded with civilian and commercial users who are rapidly developing and fielding new technologies,” Greenert said.

“To take the high ground in this new environment, we will have to work with industry and fundamentally change our approach to operations and warfare. Most importantly, we will leverage those strengths that are impossible to reverse-engineer: the expertise and flexibility of our research base, our history of adaptation, and the skill and perseverance of our Sailors,” the admiral added.

The cyber security classes were sponsored by the Palmetto Roost of the Association of Old Crows (AOC). Established in August of 2009, AOC is a not-for-profit international professional association with more than 13,500 members and 100 organizations engaged in the science and practice of electronic warfare and information operations.

- Susan Piedfort, Chronicle Editor
Building a cyber security workforce

SSC Atlantic employees are using their expertise to help build the next generation of cyber security professionals in South Carolina.

Center employees developed two high school cyber security class curriculums that were recently adopted in South Carolina’s Career and Technology Education (CATE) program.

A Cyber Security Syllabi team from SSC Atlantic helped develop two courses -- Cyber Security Foundations and Advanced Cyber Security -- that will be offered in the 2013-2014 school year.

The team, including Bill Littleton, Lt. Cmdr. Nathan Geisinger, Dale Messer, Justin Williams and Lt. Cmdr. J.D. Judd, logged more than 500 hours in the effort and won SSC Atlantic’s STEM Outreach of the Year award for developing the syllabi and for increasing high school students’ involvement in cyber security.

North Charleston’s Lowcountry Technical Academy will be the first in the state to host the new classes, according to Littleton, who leads the effort and heads up of the Cyber Forensics IPT at SSC Atlantic, along with Kenneth Zahn, Cyber Forensics Deputy-IPT Lead. They and other center volunteers are helping fine-tune lesson plans and lab exercises, and are working on a collaborative suite to develop hybrid classes and reach out to the rest of state. They have also been asked to develop cyber security programs for the Department of Homeland Security and the Department of Energy.

Littleton, who also teaches college-level cyber security classes, noticed that students going into college had no solid basis for information assurance and cyber security. When representatives from the South Carolina Board of Education asked them to help write a cyber security curriculum for high school students, the team started by looking at SSC Atlantic’s requirements for cyber security and the fundamental knowledge expected of entry level IA workers.

The courses the team developed will help fill a critical need for qualified cyber security professionals in tomorrow’s workforce. Cyber security is critical to maintaining our national defense and infrastructure—including military operations, banking, the stock market and the power grid. The need for cyber-literate professionals is complex and crosses many fields, from engineers and computer scientists to information technology professionals.

At the same time, there is a lack of high school instructors with the skill sets and knowledge to teach cyber security. Initially SSC Atlantic volunteers will concentrate on training the teachers, in person and via VTC. “It could be a teacher in a business administration class who wants to show the security aspects of the business environment, or someone who wants to concentrate only on cyber security,” Littleton said.

SSC Atlantic volunteers will hold two summer camps for teachers and for students with hands-on exercises. Littleton and the team have also helped establish cyber security clubs at six local high schools. “We go to schools once a week and talk to students about cyber security and run through various security exercises,” Littleton said. The exercises prepare students for the Palmetto Cyber Defense Competition April 13 and 14 at The Citadel, the Air Force’s Cyber Patriot Competition and similar events. The competitions, pitting Red hacker teams against Blue defender teams, allow students to practice cyber security in a safe, yet challenging environment. They provide a training ground for students to develop and demonstrate cyber security skills through team cyber exercises.

“Students today are very technology savvy,” said Littleton, “but if you ask most of them if they want to be engineers, they don’t know exactly what that entails. When you actively engage them, they can really consider the possibilities.”

The high school cyber curriculums developed by the syllabi team is helping SSC Atlantic’s Cyber Security Outreach program inspire students to take on roles in cyber-related fields within government, military and industry, he added. - Susan Piedfort, Chronicle Editor
It’s good guys versus hackers in cyber competition

SSC Atlantic, in collaboration with the Palmetto Roost Chapter of the Association of Old Crows (AOC), facilitated a cyber defense competition between South Carolina schools at The Citadel April 13 and 14.

The inaugural Palmetto Cyber Defense Competition (PCDC) featured a collegiate event on the first day, and Charleston area high schools vying against each other on the second day. The competitions provided a training ground for students to develop and practice their cyber security skills through combined individual and team exercises, according to Jeff Sweeney of 583, IA Policy and Risk management, who also served as director of the PCDC. Both competitions had the common goal to energize the schools and students to develop technical skills in networking and cyber security, encouraging them to pursue Science, Technology, Engineering, and Mathematics (STEM) careers.

The competitions began at 7 a.m. and wrapped up around 6:30 p.m. each day. Clemson, The Citadel and College of Charleston took first, second and third place honors in the collegiate event, which also included Charleston Southern University, Trident Technical College and ECPI University.

Wando, Summerville and Stall dominated the high school competition, which also featured West Ashley, Stratford, Ashley Ridge and the Military Magnet Academy.

SSC Atlantic PCDC mentors visited the high schools in the months preceding the competition to help prepare students on the cyber teams, and they helped set up the PCDC event. SSC Atlantic volunteers were Bob Miller, Josh Lewis, Mike Reski, Ken Zahn, Shann Ladiser, Allyn Stott, Doug McKee, Ron Prine, Mike Maurer, Nicole Duff, Vince Van Houten, Vince Feaster, Russ Barnes, Justin Williams, Bill Littleton, Michelle Rehr-Matash, Sophia Kostopoulos, Karen Sorenson, Corey McMahon, Dale Messer, David Wallman, James Rajabi, Bryan Ray, Jason Weatherly, Staci Pelland, Wessley Jones, Casey Jones, Shay Ellison, Hank Osborne, Jeff Stewart, Adam Wazzan, Natalie Callahan and James Burden.

Blue teams comprised of six students operated small networks that they were responsible for protecting from Red teams made up of SSC Atlantic cyber security experts. Blue Teams were scored for accomplishing administrative and business tasks while maintaining network/service availability (such as mail, database and web servers) as well as their ability to detect and respond to threats. Students were required to configure and protect their network while responding to business requests such as adding or removing services and balancing security needs against business needs.

The competitions give the students an opportunity to work with skilled computer professionals, and at the college level, the events are a hotbed for recruiting engineers and computer scientists and cutting edge ideas in cyber security. PCDC also reinforced the need to strengthen cyber security education across the nation. The Citadel now offers a minor in cyber security and will offer a specialization in cyber security to students pursuing a master’s degree in computer science.
Multidisciplinary Research Center open

Initiated through a “wisdom of crowds” concept in 2011, the Multidisciplinary Research Center (MRC) officially opened its doors in January of this year.

SPAWAR scientists and other partner researchers use the center to investigate promising and novel C4ISR concepts and technologies. To leverage our technical diversity and the many scientific disciplines represented in the MRC, the laboratory is designed to create a collaborative open environment where the benefits of social interactions between multiple technical disciplines are encouraged. It provides an energized environment for peer review, proposal development and the forming of tiger teams to meet urgent and emerging S&T needs.

This environment was created to specifically encourage both social and technical interaction for scientific teams to discover, research and invent novel and innovative solutions. Along with with a number of our Science, Technology, Engineering and Mathematics (STEM) initiatives that focus on coupling SSC Atlantic research scientists with external academicians, the MRC will, for the first time since we stood up our visiting research program, house a majority of our visiting scientists in the same facility as the S&T research staff. A portion of the MRC has been dedicated to provide a functional location where visiting scholars can interact with core groups of senior researchers from multiple disciplines.

The open concept of the MRC truly promotes an environment where mentor relationships are created between senior and junior scientists. The MRC is also a venue to showcase many of SSC Atlantic advancements made through the basic and applied research investments of the NISE program.

While S&T projects are being conducted at various locations around campus, we lacked the recurrent and regular exchange of scientific discussion among peers. Additionally, as our research programs mature, we are observing research projects that cross the borders of singular scientific disciplines. As scientific personnel from these various disciplines begin to work more closely, they will propose new research projects and the peer-to-peer interchange will bring benefits in the ability to develop and fund competitive research proposals that are worthy of external submission.

As interest grows in our data analytics research, we have only just begun to gain recognition. We need to be prepared to continue to merge the socio-economic fields as well as cognition and psychophysics. There is also increased demand for applied mathematics across many of the emerging technology areas.

Much of the benefit of providing a location for multiple diverse scientific teams is thought to reside in the inherent social interactions between multiple technical disciplines.

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The MRC is designed to encourage collaboration and social interactions between multiple technical disciplines.
SSC Atlantic showcased on IT Shadow Day

High school sophomores, juniors and seniors from South Carolina and Virginia got a first-hand look at how science and information technologies are providing information dominance for America’s warfighters April 12.

They toured SSC Atlantic facilities and learned about IT careers as part of Federal IT Shadow Day.

Charleston students toured SSC Atlantic’s Multidisciplinary Research Center and Gaming Research Innovation Lab, which featured engineering and network products and a computer simulation tool based on gaming technologies. They also toured the Electromagnetic Environmental Effects lab to learn about the impact of the electromagnetic environment on the operation of military equipment and systems, and the Air Traffic Control (ATC) facility, where they saw ATC systems used at naval stations all over the world.

In Hampton Roads, students from Portsmouth and Virginia Beach public schools learned about shipboard interior communications and satellite communications while visiting various labs.

While eating lunch the students were treated to demonstrations and were able to ask questions via videoteleconference, of SSC Atlantic Commanding Officer Capt. Mark Glover and SPAWARSYSCOM Commander Rear Adm. Patrick Brady.

This Department of Defense (DoD) initiative is designed to inspire students to pursue careers in science and math. The Shadow Day also gave SSC Atlantic the opportunity to highlight its IT workforce and demonstrate IT skills.
Turning swords to ploughshares, SPAWAR builds a claims processing system for the VA, helping veterans transition from guns to books

By Damion Strommer

In October, 2006, while stationed in Bahrain, Navy Gunner’s Mate 3rd class Paul Hurley’s right leg was completely destroyed in an accident. As he lay in a hospital bed in Germany, his leg severely infected, the Navy doctors offered him a gut-wrenching ultimatum: they could attempt to save his ravaged limb with the likelihood that it would need to be removed later in the United States, or they could amputate in Germany to stop the infection. Hurley, who harbored a lifelong dream of becoming a Navy Seal, was devastated.

“Up until that point I had a general plan of what I wanted to do. But everything changed like that,” said Hurley. He chose amputation.

Back in the States, Hurley found himself in a hospital outside of Washington, DC, near where he grew up. He chuckles as he recalls the experience. “It’s ironic, actually. I joined the Navy to get away from the [Washington, D.C.] area, and I ended up right back there, in the hospital.” In high school he worked in the very ward where he found himself recovering. He knew many of the nurses and doctors treating him. Even the familiar faces couldn’t alleviate Hurley’s anxiety.

“I remember sitting on the hospital bed, thinking about what I wanted to do,” he said. “It was a very stressful time because there were so many unknowns. I had always wanted to be a Navy Seal, but now I was thinking, ‘Oh great—now you have to go back to school.’ I wasn’t sure about a lot of things, including education.

“It was right before the Post-9/11 GI Bill CH33 program was starting to get off the ground,” said Hurley. “I knew about the Montgomery GI Bill, but I didn’t know if it was enough to cover everything, so I figured I would dive in head-first and see how it went. I ended up going back to school.”

President George W. Bush signed Public Law 110-252 on June 30, 2008, creating a new federal educational assistance benefit, the Post-9/11 GI Bill. This bill allows eligible students who served on active duty in the Armed Forces on or after September 11, 2001, to study at four-year colleges, receive living allowances, and in some instances, transfer benefits to qualifying family members.

Since the bill stipulated that the law go into effect and begin providing benefits as soon as the president signed it, it was clear that the Veteran’s Administration (VA) would be extremely challenged to handle the influx of anticipated claims from veterans and service members eager to take advantage of the most generous assistance program ever offered to members of the U.S. military. The VA implemented a program called Chapter 33 and built a short-term, manual solution to handle initial claims, but turned to SSC Atlantic for long-term help developing the software application that would allow Veterans Claims Examiners to efficiently process claims. They also requested help with project management, security, operations, training and other functions that accompany a major software development project.

SSC Atlantic agreed to support the VA in developing the Chapter 33 system that would help break the VA’s claims backlog and deliver to veterans and service members the educational benefits promised by the new law. The system would become known within the Chapter 33 program as the Long Term Solution, or simply LTS.

From the start, the VA laid out an aggressive schedule consisting of four “releases” (delivery dates) with targeted features to be delivered to LTS end users. The releases and features were established based on an understanding of known requirements for the Post-9/11 GI Bill. The release schedule was based on an estimate of SPAWAR’s capacity to develop the LTS using an Agile software development methodology. In Agile, developers use short and iterative development, testing and release cycles (i.e., software is “released” to users) to get working software into production more quickly. Agile developers ask users what core requirements will get them working immediately, and then add more layers of functionality with each subsequent release. Highest priority features, identified by business need, are developed first. In traditional “waterfall” software development, all requirements are gathered first, and then the entire system is built, tested and deployed en masse. Using waterfall to develop the Chapter 33 LTS would have meant years before the VA had any usable software at their disposal, whereas Agile allowed users to process basic claims within weeks.

The use of Agile proved to be critical to the success of Chapter 33. The LTS had to be flexible to adapt to changing business priorities, technical constraints and a better under-
standing of requirements as the program progressed. Agile gave SPAWAR and the VA this flexibility. VA and SPAWAR created teams of developers, testers, requirements analysts and VA subject matter experts (SMEs) who worked together to define the work to be accomplished within each release.

Agile has allowed the project to quickly react to and accommodate legislative changes to the original Post-9/11 GI Bill. For example, on Jan. 4, 2011, President Barack Obama signed the Post-9/11 Veterans Educational Assistance Improvements Act of 2010 into law. The new legislation ushered major changes for the LTS by expanding eligible education programs to include apprenticeships, on-the-job training, flight training and non-college degree programs. It also provided veterans with a housing stipend when taking long-distance courses and paid for national tests, licenses and certification tests. Agile helped the program quickly adapt to these requirements changes, as certain parts of the new law had to be implemented within 60 days of enactment. Some changes mandated by the new law changed the whole structure of the way the VA paid educational benefits. The program team had to shift its workload out nearly a year, but Agile helped VA meet their deadlines without hiring hundreds of new staffers, resulting in significant cost avoidance.

As Paul Hurley recovered in his hospital bed, he came to realize that going back to school was his best option. “It was really tough going back to school,” he recalled. “You are pretty self-conscious when you lose a leg.”

In the fall of 2007, Hurley enrolled at George Washington University using the Montgomery GI Bill, the precursor to the Post-9/11 GI Bill. He immediately experienced challenges using the Montgomery Bill. “You have a lot of classes and everything else going on, and you still need a job to make ends meet with the old GI Bill,” Hurley recalled. “You also had to do a monthly check-in to maintain your Montgomery GI Bill benefits by letting them know you were still enrolled. If you forget to make that call one month, the next month you are short of money and the school’s banging down your door asking why you missed a payment. I had several late fees, and that’s money out of my pocket I didn’t have.”

Hurley started out taking two classes when he was still doing rehabilitation in the hospital. Still recovering and mostly wheelchair-bound, he would transfer out of his wheelchair, lift himself and hoist his wheelchair into his truck, drive to school and do the reverse, just to get to class. “It made those six credits a real hassle,” said Hurley. “I think, though, it really paved the way for me to get my priorities together while going to school full-time.”

In 2008, Hurley immediately took advantage of the new Post-9/11 GI Bill. The differences between the Montgomery GI Bill and the Post-9/11 GI Bill were quickly apparent. According to Hurley, the new bill requires a lot less administrative work from the veteran, thus providing greater incentive to complete school. “With the new bill, I’m provided all sorts of opportunities to broaden myself and my education when I’m not so focused on the financial aspects of making ends meet.

“The Housing Allowance and monthly stipend were huge. They allowed me to afford a place that was five minutes away from school. That made a huge difference,” he said. The Post-9/11 GI Bill has also had an unexpected perk for Hurley: it helped facilitate his physical recovery. “I’m an active swimmer and rower. The new bill, allowed me to be in the water more. I needed that time to spend in the gym and in the pool,” said Hurley.

Using the Post-9/11 GI Bill, Hurley graduated in December, 2011, from George Washington with a degree in Geospatial Communications and now works full time with MITRE, a not-for-profit organization that supports federal agencies with system engineering, research and development, and information technology. He is part of MITRE’s Veteran’s Deployment Training Program, which has helped him find his niche by working at many different departments within the organization.

He has also become a champion of the Post-9/11 GI Bill and the Long Term Solution. Whenever he talks to veterans who have not taken advantage of the benefit, the first thing he asks them is “Why?” He explained, “I know a lot of guys who are eligible for the GI Bill but are intimidated by what they see as the paperwork and the process to get their benefits initiated. Some thought it was too good to be true. A lot of guys I was in the Navy with are just scraping by.

“But what do you have to lose? You earned it, you paid up for it; might as well use it. Some of them have started using it as a result. It’s really made a difference for a lot of people I know,” Hurley said.

Today, the LTS developed by SPAWAR is utilized by approximately 1,200 Veterans Claims Examiners (VCE) for processing claims and awards faster than ever. “The Post-9/11 GI Bill has been hugely successful,” said Brig. Gen. Allison A. Hickey (Ret.), VA Under Secretary for Benefits. “No one would have imagined that today this same system developed in such a short window has paid out nearly $20 billion in educational benefits.”

The number of partially automated claims processed daily increased by 500 percent, from 2,000 each day to 10,000 while the time required to process a claim decreased by 50 percent, from 90 minutes to 45 prior to full automation. There are currently almost 900,000 service member claimants in the system and over $25 billion in claims have been paid to date. The LTS has given veterans, service members and eligible family members the ability to view their enrollment status and entitlement, including payment history, using the eBenefits website (www.ebenefits.va.gov). Using eBenefits, service members can also transfer benefits to family members and update their direct deposit and contact information.

For the LTS program, SSC Atlantic also developed a fully integrated Business Process Management System (BPMS), which incorporates programmatic functions including risk management, scheduling, access control and communications into a workflow management framework. It also inte-

Continued on next page
The BPMS system is being used on another VA SPAWAR initiative, the Veterans Benefits Management System (VBMS), and has been demonstrated for other SPAWAR portfolios and integrated project teams.

While the LTS program has undoubtedly strengthened the relationship between the VA and SPAWAR, it has had significant benefits for SSC Atlantic as well. SPAWAR now has a group of young engineers who are experts in the Agile methodology and approach. They are better trained, at no cost to the Navy. This has been accomplished within the framework of SSC Atlantic’s competency aligned organization, using various competencies to staff and complete the work.

Gregg Travis, SSC Atlantic Chapter 33 Program Manager, thinks the LTS program has helped improve SPAWAR’s reputation and visibility. Known primarily as the high-tech organization specializing in the development of weapons and other combat systems, SPAWAR has enhanced its reputation as a supporter of veterans and service members when they return home by building the LTS. “This program is good for SPAWAR because it is good for the veteran,” said Travis. “I think it has made us more ‘touchable,’ more relatable to veterans. I’ve met many veterans who, when I tell them I work for SPAWAR, say ‘We use your systems on the ships, but I didn’t know SPAWAR did software development and veterans’ programs.’ They feel good about the war tools we put in the theater, so they feel good about using these SPAWAR tools when they get home. It’s a long term thing,” said Travis.

The last major release, deployed July 30, 2012, allows the LTS to fully process about 45 to 70 percent of daily supplemental claims with no human intervention. Veterans are now paid in days not months. The claims backlog is virtually nonexistent. Since the last major release, efforts have focused on transitioning support for the LTS to the VA. The transition was mostly completed by the end of February this year, after which some SSC Atlantic employees and contractor staff stayed on to ensure that the remainder of the system and support functions are fully transitioned to VA by mid April.

The ultimate measure of success, however, is the impact the LTS will continue to have on the lives of veterans like Paul Hurley. “I had no idea how much was going on in the background with the Post-9/11 GI Bill program. It hadn’t really dawned on me as the user, but I’m really grateful for what the project has done. I didn’t realize that there is still so much going on with it and still so much being developed. It’s incredible,” said Hurley. “It’s made a big impact.”
It takes a **real** man...

... to pull off **this** look

Manly men assigned to SSC Atlantic’s Hampton Roads site donned women’s shoes during an April 12 “Walk a Mile in Her Shoes” event designed to raise awareness during Sexual Assault Awareness and Prevention Month. While the rain outside precluded them from actually walking a mile in women’s shoes, the men were able to strap on their heels and step out around the SSC Atlantic indoor work areas.

“This was a fun way to get people thinking and talking about the seriousness of sexual assault,” said LSC Dawne Carter of 424, Sexual Assault Prevention and Response (SAPR) point of contact. She commended SAPR Advocates IT1 Sara Neaves and IT1 Latoya Troupe for helping organize the event. Civilians Karen Webber and Michael Artegian also joined in.

At top left, LS1 Weekend Guillaume of 413 rounds out his urban camo look with a sassy, coordinating sling pump, while at right, Cmdr. Christopher Tallon, 41000, complements his khaki ensemble with white, open-toed heels. Both men, along with LS1 Dung Nguyen of 413, made a bold fashion statement by wearing black socks with their heels.

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**The short game**

From left, Chris Lam of SSC Atlantic’s 4315, Davis Go-forth of 4313 and Trent Walker of 43F (kneeling) watch as 4322’s David Shook’s putt heads toward the hole during a captain’s choice scramble golf tournament April 19.

Charleston’s SSC Atlantic Employee Services Association (ESA) and Joint Base Charleston’s Force Support Squadron sponsored the tourney, which was held at Wrenwoods Golf Club on Charleston Air Force Base. Fifty percent of the event proceeds will help fund future ESA events such as the holiday party, oyster roast and summer picnic. Teams of four competed for first, second and third place, and there were also prizes for last place, closest to the pin, longest drive, and hole in one.

**CO visits Walterboro**

*Continued from page 4*

“As a product of the Colleton County school system, I was proud to visit these schools and interact with students, faculty and some old friends,” Glover told Clifton Warren, principal of Colleton County High School.

“I am proud to see the investment you are making in the leaders of the future.” Glover added that he hoped he was able to influence the students in a positive manner.

Another successful FLL season

For the 2012-2013 FIRST® Lego® League (FLL) robotics season, more than 60 SSC Atlantic volunteers mentored 32 FLL teams, including one in Hampton Roads, Va.

The following teams won awards in local qualifiers and state competitions:

At the Jan. 11 Horry County qualifier, the Cario Middle School Purple Programming Princesses (mentor Chris Hill) took Project 2nd place and got the Golden Ticket, advancing to state.


At the Jan. 21 Charleston County qualifier, Charleston School of the
Arts SOAR (mentor Kathy Adams) won the Project Award and got the Golden Ticket, advancing to state. The FIRST Knights of St. John Catholic School (mentors Mike Niemann and Tom Glaab) tied for second in Robot Performance.

At the Jan. 26 North Charleston qualifier, the Hursey Racers of Malcolm C. Hursey (mentors: Charmaine Narciso-Jiao and Ben Greco) won the Core Values Award, Burke Middle School’s Robo-Dawgs (mentors Sedrick Stewart, Ecoya Green and Asher Khader) won the Judges Award. The BrainBots of Belle Hall Elementary (mentors Ann Rideout, Betty Collins and Shannon McKitrick) got the Golden Ticket and advanced to state.

At the Feb. 2 Dorchester qualifier, Oakbrook Elementary’s Bearbots (mentors Jeffrey Lumb and Shawn Peterson) won Robot Design 1st Place. Eagles Nest Elementary Eaglebots (mentor Will Timmons) won Robot Performance 2nd Place and Robot Design 2nd Place. Windsor Hill Arts Infused Robo Hawks (mentor Michelle Rehr-Matash) won the Core Values 2nd Place Award; and Gregg Middle School’s Mechanical Mustangs (mentors Christy Jones and Jozen Orbase) won the 1st Place Project Award and advanced to the state competition. Winning Golden Tickets to advance to state were Eagles Nest Elementary’s Eaglebots, Oakbrook Elementary’s Bearbots, River Oaks Middle School’s ROMBots (mentors Solomon Nkwocha and Jason Morrow), and Dubose Middle School’s Meddling Kids (mentors Tamanu Lowkie and Nicole Duff).

At the state competition in Lexington, S.C., the River Oaks Middle School ROMBots, mentored by Solomon Nkwocha and Jason Morr, won 1st Place for Teamwork; Berkeley Intermediate B.R.A.I.N. (mentors Dave Caldron and Tiffani Bush) took 2nd Place Robot Performance; Belle Hall Elementary BrainBots (mentors Ann Rideout, Betty Collins and Shannon McKitrick) won the Judges Award; and the Knights of St. John Catholic School’s Robo-Dawgs won the Core Values Award.
Shannon McKitrick) took 2nd Place Programming; Eagles Nest Elementary Eaglebots (mentor Will Timmons), 2nd Place Teamwork; Cario Middle School Purple Programming Princesses (mentor Chris Hill) took 2nd Place Gracious Professionalism; and SSC Atlantic’s own Tom Glaab received the Adult Mentor Award for his dedication and hard work as a mentor supporting the FLL organization.

These efforts were led by STEM Outreach Director Shanda Johnson and Karen Cooke, STEM Outreach Robotics IPT Lead. SSC Atlantic mentors included Ornette Adams, TC Allen, Shannon Bistline, Thomas Bolden, Adrea Brothers, Prescott Burden, Tiiffany Bush, David Coldren, Betty Collins, Brian Collins, Cedrick Collins, Christopher Darrow, Nicole Duff, Carlos N. Elegado, Shay Ellison, Al Emondi, Tim Gardner, Tom Glaab, Ecoya Green, Lakeithrick Harris, Mark Held, Chris Hill, Alicia Hilton, Shanise Hudley, Brett Huff-

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Robots weighing 150 pounds shoot frisbees on a flat, 27 by 54 foot field, trying to score as many discs into their goals and climb pyramids made of steel pipe.

It’s all part of Ultimate Ascent, the 2013 FIRST Robotics Competition (FRC). With team mascots, cheering fans, close-scoring matches and pulsing music, FRC is part sporting event, part rock party and part high-tech, pure inspiration.

More than 1,000 high school students from around South Carolina converged in Myrtle Beach Feb. 28 to March 2 -- including four teams sponsored or mentored by SSC Atlantic volunteers -- to compete with the robots they designed, programmed and built in just six weeks.

Each team has three robots that compete during 2-minute matches. In a 5-second autonomous period the robots operate independently of driver inputs, with discs scored worth additional points. For the remainder of the match, drivers control robots and try to maximize their alliance score with as many goals as possible. The match ends with robots attempting to climb up pyramids.

SSC Atlantic-mentored FRC Teams 3475, 4533, 342 and 3489 competed well at Myrtle Beach, but did not advance further in the competition this year.

SSC Atlantic volunteers and mentors lent their time and talents to guide the teams as they build more than just a robot -- they build team spirit, life experience, and enthusiasm for science and technology.
From left, SSC Atlantic Technical Director Christopher Miller, Daniel Lawton, Sean Rodammer, Donald Lauer, Erik Rooman, Walter Runck, Kevin Quinn, Greg Stevenson, John Ward and SSC Atlantic CO Capt. Mark Glover show off the Overall Centurion Distance trophy.

SSC Atlantic team takes home trebuchet trophy

An SSC Atlantic-sponsored team captured the Overall Centurion Distance Award in a “Storm The Citadel” trebuchet competition Feb. 16 in Charleston.

The competition involved designing a medieval type of catapult used to hurl heavy objects over long distances. Open to K-12 and college students, as well as to military and corporate participants, trebuchet teams from SSC Atlantic, Google, Air Force, The Citadel and Centurum competed. They were evaluated for accuracy in Centurion and Barbarian levels of the event.

More than 20 high schools, 15 middle schools, and 15 elementary schools competed. Teams of two or more people from high school, college or the corporate world competed in contests of accuracy, design and team spirit.

SSC Atlantic’s Kevin Quinn, John Ward, Daniel Lawton, Bryan Swann, Greg Stevenson, Walter Runck and Sean Rodammer built two trebuchets for the event. They were led by SSC Atlantic’s Erik Rooman, who originally designed and managed the trebuchet event when he worked at The Citadel. Besides competing on the SSC Atlantic team, Rooman served as one of the assistant managers during the event. Other SSC Atlantic volunteers assisted with event coordination and cheered on Team SPAWAR.
As part of SSC Atlantic’s outreach to inspire students to pursue science, technology, engineering and math (STEM) careers, center volunteers recently received training that will help them engage students in active, hands-on learning involving real-world problems.

They performed experiments and demonstrations that employ inquiry and design methodology, which has proven effective in exciting youngsters to pursue science and technology careers. The training prepares the SSC Atlantic volunteers to work alongside teachers in school laboratories as subject matter experts.

The Center for the Advancement of STEM Education (CASE) offers the training and provides the instructional materials, with CASE Executive Director Dr. Stephen Priselac and CASE Director of Training Dr. Nancy Priselac on hand to assist as needed.

Some of SSC Atlantic’s STEM volunteers gather with Drs. Nancy and Stephen Priselac (top row) after recent hands-on training at Gregg Middle School.

Center volunteers learn teaching strategies to draw students to STEM careers

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Daily News blog reaches 2M milestone

SSC Atlantic’s Daily News blog (https://blog.spawar.navy.mil/atlanticnews/) passed a milestone in early April as it surpassed 2 million hits, setting a record for all of the SPAWARSYSCOM blogosphere.

The blog is part of a command effort to increase collaboration and communication. “The success of our Daily News Blog is something we should all be proud of as an organization,” said SSC Atlantic Executive Director Christopher Miller. “We’ve come a long way in how we think and use our internal collaboration tools.”

Up and running since May 24, 2010, the Daily News blog was designed by Diane Owens of 851 at the request of Executive Director Christopher Miller as a one-stop information destination for employees at all SSC Atlantic sites. The blog offers a single solution to the barrage of all hands e-mail messages that filled employees’ inboxes and taxed the email system.

It features information about travel regulations; all events and programs; performance reviews; legal notices; human resources programs and benefits; accounting and procurement systems; new and updated instructions and guidance; changes to policies and procedures; severe weather warnings; training courses; timekeeping; courtesy job announcements; road closures; personnel promotions; military plans of the week; employee awards; all hands meetings and more.

During the first week of use (May 24, 2010) 7,177 hits occurred. Seven months later, by the first week of January 2011, hits had doubled to 14,462. Hits for the week of Oct. 15, 2012 broke records with 22,282. Since then, the blog consistently averaged 20,000 or more hits a week.

Users can search for messages by geographic site, by criticality, or by subject, using the built-in search engine, color coding legend, or tag clouds.

Government and military employees, as well as contractors who have access to the network, view blog posts on a pull basis at their convenience. Most employees can access the blog via virtual private network while away from the office. For SSC Atlantic employees who travel or cannot read the blog often, a weekly blog summary was sent to all government, military and contractor personnel beginning Dec. 13, 2011, and continues today. This “need-to-know news” summary became very popular.

Employees who have information to share with all hands SSC Atlantic or all hands at specific geographic sites -- from job postings to lost and found items -- can e-mail them to ssclant_daily_news.fcm@navy.mil (listed in the GAL under SSC Lant Daily News, with spaces between words).

The blog was designed and is managed by Owens, an 851 senior writer/editor. Corporate Communications employees Sue Chadwick and Alex Jackson assist by posting information, and Allie Delaney posts training announcements. They format and label blog posts, assign key words and publish them.

The Daily News blog complements other SSC Atlantic communications avenues, such as the command’s website, Facebook, Twitter, YouTube, The Chronicle and Chronicle Lite; commanding officer, executive director and employee blogs; TV announcements; briefs and posters.

Find SSC Atlantic on Flickr, Facebook, Twitter, YouTube

Check out SSC Atlantic, SSC Pacific and SPAWAR headquarters news on Facebook, Twitter, Flickr and YouTube.

If you wish to become a SPAWAR Facebook fan, visit http://www.facebook.com/spaceandnavalwarfaresystemspcommand.

To follow us on Twitter, see http://twitter.com/SPAWAR-HQ. To view the SPAWAR You Tube Channel, visit www.youtube.com/teamspawar. To view SPAWAR photos on Flickr, see: www.flickr.com/teamspawar.

SPAWAR’s official U.S. Navy website is at http://www.public.navymil/spawar/Pages/default.aspx. SSC Atlantic’s public website is also accessible at this site (http://www.public.navymil/spawar/Atlantic/Pages/Home.aspx).

If you have a news or success story you’d like to share via social media or any other medium, leave a message at SSC Atlantic’s InfoLine at (843) 218-3390, or email your idea to SSCLANT_CH_PAO@navy.mil.
Jackson uses blog to advocate for those with disabilities

Alex Jackson, a writer-editor in SSC Atlantic’s 85, shares his experiences of living with a spinal cord injury through a blog entitled “Tuesday Talk With Alex” at www.tuesdaytalkwithalex.wordpress.com.

Born in Charleston, S.C., Jackson was in a motor vehicle accident when he was nine months old, acquiring a C5-C6 spinal cord injury. Now 26, Jackson doesn’t let his disability deter him from achieving his goals and enjoying life.

He started the blog in December 2011 for the Trident Chapter of the South Carolina Spinal Cord Injury Association to share his experiences on everything from learning to drive his specially outfitted van, to the ins and outs of using wheelchairs and various other assistive technology, to his strong faith and close-knit family.

The blog, subtitled “Living with a disability and a purpose,” also shows how Jackson overcomes challenges while keeping a positive outlook. “I don’t dwell on the things I’m not able to do, I’m grateful for my abilities,” Jackson said. “I have turned what could be considered a negative situation into a positive outcome. I believe it is my purpose to be an advocate for myself and others who are living with disabilities.”

Jackson has a bachelor of arts degree in Media Studies Communication from the College of Charleston and is pursuing a master of arts degree.

He has been employed part time by SSC Atlantic since 2010, and besides writing, he assists with the SSC Atlantic Daily News and is awards narrator at center all hands gatherings.

FIRST® Lego® League robotics

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FLL competitions encourage kids between the ages of 9 and 14 to pursue further study in STEM areas in order to help shape the workforce of the future. Check out SSC Atlantic’s FLL YouTube video at www.youtube.com/watch?v=7kL_IUEQNsQ.
MCLP:

Pilot mid-career leadership class sets the standard

SSC Atlantic’s Mid-Career Leadership Program celebrated the graduation of its inaugural class in January, and with the pilot now in the rear view mirror, the next class begins in June.

The pilot class met for 90 duty hours in and out of the classroom to cover six modules. They shadowed leadership, completed leadership assessments, completed a physical and mental leadership challenge course, experienced warfighter life aboard former USS Yorktown, heard guest speakers and completed assignments that required reading, writing and making presentations.

The Yorktown visit explored “Lessons in Leadership,” and was conducted in partnership with the Patriot’s Point Institute of History, Science, and Technology.

According to MCLP Program Facilitator Dave Hillman of 81300, the event was also a pilot for Patriot Point’s Adult Leadership Program, which frequently hosts educational programs for schools, scouts and Junior Reserve Officer Training Corps (JROTC) groups but had yet to host an adult group. According to Butch Hills, retired Navy E-2C pilot and Patriot’s Point Educational Programs Lead, the programs for the younger groups emphasize science, technology, and history while the adult program is designed to emphasize studies of naval history and culture related to visionary leaders.

Both days on Yorktown were filled with a variety of activities for the pilot MCLP class, including guest speakers and interactive lectures. Many candidates also took advantage of the opportunity to stay overnight in the berthing areas aboard Yorktown and experience a day in the life of the warfighter.

SSC Atlantic Commanding Officer Captain Mark Glover visited the class to lend his support and ensure the Chief Petty Officer’s Mess prepared meals fit for consumption.

Executive Coach and Talent Management Lead Scott Dreyer, 81100, wrapped up the Hogan Assessment series by guiding candidates towards understanding and application of the Hogan Personality Inventory.

Hills led the group on a tour of the “Fighting Lady” using authentic artifacts as a backdrop to discuss historical examples of influential naval leaders with extraordinary vision and courage.

Keynote speaker Maj. Gen. James E. Livingston, USMC (Ret.), a Medal of Honor recipient, led the class on a tour of the Medal Of Honor Museum where heroic tales of extraordinary courage, commitment, sacrifice, and leadership are prominently displayed. Livingston followed up by providing guidance on what he felt made leaders successful.

Transport and Computing Infrastructure Business Portfolio Manager Charles Adams also spoke with candidates about his experiences and how they shaped his leadership development. Adams also shared his insights on the art and application of leadership, including more than 30 years in the National Guard.

Above, MCLP candidates are briefed in the hangar deck of the former USS Yorktown at Patriot’s Point. Below, they read about Medal of Honor recipients and watch a movie about Yorktown’s illustrious naval service.
For Module 5 the class shadowed and observed SSC Atlantic leaders who “Model the Way.” The final module was “The End is Just the Beginning.”

“I had the opportunity to engage with the pilot class during their training, and based on their dedication and enthusiasm, I am excited for our future,” said SSC Atlantic Executive Director Christopher Miller, congratulating members of the pilot class. “They committed time, energy and effort well beyond their normal duty hours to improve their leadership skills and abilities.”

Inaugural MCLP graduates are Isabella Wooldridge of 43140 in Tampa; Scott Ainsworth of 54470, Timothy Logan of 55210 and Erin Wasenius of 61200, all from Hampton Roads; John Aller of 63210, Tynesha Bailey of 58200, Michael Besco of 56240, Clifton Casey of 52110, Betty Collins of 58100, Randall Dunn of 521E0, Kristopher Godek of 54120, Chad Kemp of 63200, William McCreight Jr., of 55330, Williams Peregrino of 63200, Reed Phillips of 521E0, Jessica Reno of 56230, Don Sallee of 63220, Justin Sellers of 55210 and Daniel Tyree of 54220, all of Charleston.


Christopher Lam and David B. Jones of SSC Atlantic’s Code 4333, Joint Explosive Ordnance Disposal (JEOD) Very Small Aperture Terminal (VSAT) Logistics and Training, were recently recognized for supporting Operation Enduring Freedom warfighters throughout Afghanistan.

The men recently received Certificates of Appreciation signed by Capt. Timothy Rudderow, USN, commander of Combined Joint Task Force Paladin (CJTF) for their support to the task force during nine-months spanning 2012 and 2013. The awards were presented by Lt. Maximiliano Pino of Explosive Ordnance Disposal (EOD) Group Two, which was supported by Lam and Jones. They managed and troubleshoot EOD teams’ field mobile satellite systems, to include more than 250 user accounts and 2,128 trouble calls.

“Your military training and ability to lead from the front made it possible to successfully travel difficult terrain to 44 Paladin and 18 Marine Corps remote locations throughout Afghanistan, ensuring the service availability that allowed EOD teams to report and document accurate criminal acts, reconnaissance operations and interdiction tactics in the improvised explosive device fight,” the citation noted.

Lam, Jones JEOD support lauded

At left, Lam is presented a Certificate of Appreciation from Lt. Maximiliano Pino, J6 OIC CJTF Paladin in Afghanistan, for support to field mobile satellite systems. Pino also honored Jones, at right.
NP All Hands

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uniform at the Meet the Warfighter session. Two Sailors, Aviation Maintenance Administrationman Second Class Dave McLean and Information Systems Technician First Class Melissa Mohammed and two Marines, Capt. Thomas Denevan and Staff Sergeant Eric Robbins spoke to NPs via VTC from Hampton Roads. They introduced themselves, discussed the type of work they do, and explained the types of technology that would make their job easier. NPs also had an opportunity to ask them questions.

Keynote speaker of the NP All Hands, Margaret Seidler, organization and development consultant and author of Power Surge – A Conduit for Enlightened Leadership, focused on the NPs as the next generation of leadership and shared tips for becoming a great leader. Seidler showed humility as she explained her climb to the top, only to learn that when she thought she had made it big, a 360-degree leader feedback survey showed that her peers and direct reports had rated her poorly. She was a legend in her own mind, as she explained, and the experience put her on a mission to find out what makes a great leader. “It comes down to two things. One is how you take responsibility, particularly in tough situations. Two is how you deal with your knowledge of yourself, called emotional intelligence,” explained Seidler.

SSC Atlantic’s Executive Coach and Talent Management Lead Scott Dreyer shared tools and methods for coping with stressful situations, finding a healthy work/life balance and de-cluttering. He asked NPs about current stressors they’re facing and then explained that stress is defined as any adjustment to change, and if managed well, can be a positive because it allows people to get through difficult situations. Jessica Malcolm, SSC Atlantic’s quality of work-life (QOWL) coordinator, discussed programs such as Civilian Employee Assistance Program (CEAP), health and wellness, telework and the Transportation Incentive Program (TIP).

Networking was highly emphasized at the NP All Hands with a presentation, group activity and evening social event. Lisa Pass, Corporate Operations (Competency 8.0) CPI lead, discussed the importance of networking and how it can benefit your career and personal life. She shared 10 essential principles of networking, including developing a personal elevator speech, demonstrating integrity and following up with people you meet. NPs then participated in a speed networking activity which required the networking skills presented by Pass.

New Professional Coordinator Stacy Alberico gave a presentation on the state of the NP Program and answered specific questions from the audience. Alberico encouraged NPs to take advantage of the program and to get as much out of it as possible. “Consider this [program] your leadership lab, your chance to do something different,” Alberico said. “Get involved and show value in what you do.”

The event concluded with a team building activity in which NPs built a ramp that could keep a ping-pong ball off the table for the longest amount of time, given limited resources and time pressure. The morale boosting activity pitted teams against each other as they competed for the victory.

The New Professional Coordinator’s Office extended the event April 4 for NP Orientation Part II: Meet Your Business Portfolios. Representatives from six portfolios gave an overview of the work and customers to more than 130 NPs and 22 non-NP employees at five SSC Atlantic sites via VTC, DCO and telephone bridge. The six portfolios that presented at the event include Integrated Decision Superiority (IDS); Platform, Installation, and In-Service Support (PII); Business and Force Support (BFS); Transport, Computing and Infrastructure (TCI); Expeditionary; and Discovery and Invention (D&I).

The New Professional Council and the New Professional Coordinator’s Office was commended for putting on this successful professional development activity for all SSC Atlantic NPs. The New Professional Council Members include Darius Tavasoli, Elliot Engberg, Chad Gardner, Rachel Jenkins, Nick Nicholson, Blake Wall, Ben Greco, Mary Larason, Danielle Shoemake, Ashley Savage, Kelli Cochran-Seabrook, Troy Nelson and Ki Braxton. The New Professional Coordinator’s Office includes Stacy Alberico and Veronica Truesdale.
social interactions between scientists while conducting their specific research projects. Regular lab meetings, peer-to-peer presentations, seminars and invited speakers from external research communities bring a level of energy to the research environment within the lab that did not exist previously.

While the construction of the MRC has provided the unique structural environment, literature and past studies on multidisciplinary teams indicate formidable cultural and organizational challenges must be overcome to address differences in methodologies and approaches that are fundamentally pinned in each unique discipline. Many of these challenges are individualized and self imposed and we all have our own approach regarding how we address hard research problems and experimentation. The good news is that with appropriate incentives and team support, multidisciplinary teams can overcome their individual comfort zones for the betterment of the advancement of the team’s research goals and objectives.

We have already seen examples of successes from the output of various communities of interests that have been funded through the NISE program. This has resulted in team journal publications and submissions, peer reviewed and vetted external autonomous proposals, and collaborative review of scientific strategy in key emergent research areas.

The MRC, located in Bldg. 3147, was stripped down to the bare floors, below left, and redesigned to encourage social and technical interaction for diverse scientific teams.
Marine Visitor

Above, Marine Corps Maj. Gen. Michael Dana, Assistant Deputy Commandant for Installations and Logistics (Plans), center, makes a point during a visit to SSC Atlantic March 20. He was accompanied by former SSC Atlantic Commanding Officer Capt. Bruce Urbon, right, now program manager for Global Combat Support System-Marine Corps (GCSS-MC). Above right, SSC Atlantic Executive Director Christopher Miller briefs the general in the executive conference room. At right, Vehicular Integrated Solutions Sub-Portfolio Leader Pete Ward of 63300 and Dana listen to 63320’s Joe Rodgers, program manager for MRAP/M-ATV integration, center, during a tour of SSC Atlantic’s Vehicle Integration Facility.

Hursey Racers on board

Students from Malcolm C. Hursey Elementary School practice their Lego robot routine, at left, and with bristlebots made with everyday household materials, below, during a recent visit. SSC Atlantic sponsored and mentored the Hursey Racers in this year’s robotics competition and the kids showed what they accomplished. At SSC Atlantic they also learned how they can apply their new skills to future careers from host and mentor Ben Greco of 71.
Falcons learn about E3

Jeff Lucas, lab technician and test engineer on SSC Atlantic’s electromagnetic interference/electromagnetic compatibility (EMI/EMC) team in 59440, explains some of the features of the center’s anechoic chambers to visiting students from Garrett Academy of Technology in North Charleston. Lucas demonstrated how equipment is placed in the chamber and subjected to a series of emissions and susceptibility tests to make sure electronic devices used by warfighters will be free of interference.
There’s more to this issue’s best shot, pictured on the facing page, than meets the eye.

For one, that’s not a U.S. submarine, it’s a diesel submarine from the Japanese Maritime Self Defense Force. The two boys are American, however. They are the older sons of SSC Atlantic employee Matthew Lane of Code 63210, and they were welcoming him back home after being underway on the Japanese sub in 1997.

A career submarine officer/political/military advisor, Lane was then a Navy lieutenant assigned to Commander Submarine Group Seven in Yokosuka. He served as liaison officer to the Japanese submarine force, setting up tactical development exercises between the U.S. and Japanese sub forces. During this particular underway he was escorting the U.S. submarine group deputy chief of staff for operations.

After this tour, Lane was assigned to USS Alexandria (SSN 757); the U.S. Naval War College/International Naval Staff College in Newport, R.I.; Commander Submarine Group Two as operations officer and communications officer, Groton, Conn.; and at the Defense Intelligence Agency/Office of Naval Intelligence as a military attache/U.S. diplomat in Tunisia, Algeria and Libya, North Africa. He retired with 21 years of naval service in 2010 and is a fluent French speaker.

After six months and three job offers, Lane chose SSC Atlantic, attracted by “the dynamic aspect of the CAO concept,” he said. Since arriving in January of 2011, he has served as an IPT lead and program manager for projects supporting the IRS, NSA and DISA. He plans to move from this position in the near future either to a larger IPT or to the competency to increase job experience.

In the photo on the facing page, Lane is barely discernable in the bridge of the Japanese submarine -- he’s the only guy wearing a khaki uniform who is looking back at the pier. The returning Japanese sailors have no reason to.

On Navy installations worldwide families, friends and loved ones traditionally crowd piers to welcome their Sailors home after deployment. But in Japan this tradition does not exist. “The Japanese sailors were really surprised because my family was the only one on the pier waiting,” Lane said. “They just don’t do that. Nobody ever meets them upon return to port.”

The boys, now 17 and 19, have grown considerably and have a younger brother age 12. Lane’s wife is the photographer; last month the couple celebrated their 20th wedding anniversary.

Check out The Chronicle on line; send in your story

What’s happening in your world that you’d like to see in The Chronicle? We are already collecting content to fill the pages of our next issue.

The power of your experiences is even greater when you take the time to share them! We look forward to reading about the great work you are doing as part of the SSC Atlantic team. If you have a story that you’d like to see here, send it to susan.piedfort@navy.mil or call the editor anytime at (843) 218-4973, DSN 588-4973.

The Chronicle Photo Contest

Thank you to all who submitted!

And the winner is...

Hit us with your best shot

We are now soliciting submissions from SSC Atlantic employees for next issue’s contest.

Send your best shot to susan.piedfort@navy.mil or joseph.bullinger@navy.mil.
Springtime at SSC Atlantic