

# PHD SENTINEL

NAVAL SURFACE WARFARE CENTER, PORT HUENEME DIVISION  
AUGUST 2011

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NSWC PHD Celebrates 48th Anniversary



## A Message from the Technical Director

The NAVSEA focus for August is “Develop Innovative Science and Technology.” From our efforts on the Self Defense Test Ship to testing High-Energy Lasers, NSWC PHD is at the forefront of technology for today’s and tomorrow’s surface warfare systems.

In the words of CNO Admiral Roughead, “there are great challenges today, but in every challenge, there are opportunities to seek innovative approaches and take bold action.” His words serve as a reminder of our goal to innovate, design and execute naval systems that place Sailors in a dominant position during battle while ultimately preserving our national security.

The federal government is particularly invested in the pursuit of innovative concepts as stated through the federal funding authorization provided by Section 219 of the Duncan Hunter National Defense Authorization Act and Naval Innovative Science and Engineering (NISE) Program. This sets aside the needed funding for naval research and development

efforts within the science and engineering fields—an area we are deeply committed to.

If we take a look at our past and future projects, PHD is paving the way for ground-breaking science and technology. For example, the Aegis Readiness Assessment Vehicle (ARAV) developed at White Sands Detachment is an example of technology that delivers up to 85 percent cost savings over other Ballistic Missile Defense assessment vehicles. Innovative design approaches helped keep the relative cost of the ARAV low, the build cycle short and reliability high.

Another example of PHD’s innovation can be found within our Mission Package Support Facility (MPSF) which is designed to support the Navy’s Littoral Combat Ship, a revolutionary warship optimized for littoral missions. As the only facility of its kind, the MPSF not only stores, deploys, upgrades and maintains the systems and elements that comprise the mission modules; it also provides round-the-clock distance support to deployed modules.



Mr. Timothy Troske

PHD continues to look towards the future when developing new systems. A current project that will take us through the year 2015 involves USS Gerald R. Ford (CVN 78), the latest aircraft carrier built since USS George H. W. Bush in 2009. Since February 2009, PHD has been planning an extensive combat system integration and test program for CVN 78 to ensure she is ready to deploy, defend and carry out assigned missions by 2017.

The Aegis Advance Capability Build 12 is another division project currently in the works. It is an integrated program that will provide a set of capability upgrades to Aegis Baseline 3A CGs, Baseline 5.3.9 DDGs and DDG-113AF. Specifically, PHD is involved in the development of requirements and test support, and leads the Readiness Integrated Product Team.

Lastly, Land Attack Department personnel have spent the past year overseeing the design and construction of the Advanced Radar Detection Laboratory, where a new radar system will be tested and evaluated.

*An SM-2 missile is shown in flight during a Royal Australian Navy live fire exercise near the Pacific Missile Range Facility, June 2011. Photo courtesy of Royal Australian Navy.*



PHD  
**SENTINEL**

Commander.....Capt. William W. DeBow  
Division Technical Director ..... Timothy Troske  
Director, Command  
Communications.....Michelle Heaton

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Known as the Advanced Missile Defense Radar (AMDR), it is envisioned to counter current and emergent Ballistic missile, air-to-surface and surface-to-surface missile threats, furthering the Navy's ability to protect and serve our nation.

In addition to remaining at the forefront of innovation, it is our responsibility to share our excitement for science and technology with the younger generation,

who will one day continue our efforts. The Division is an avid supporter of many community-related science and technology events, and champions a variety of programs involving local schools, including the Pre-engineering Program for high school students and the National Engineers Week rocket building competition for middle school students.

Through creative science and technology, we can

meet current and emerging warfighter needs and deliver future force capabilities. As long as we continue to seek innovative approaches and take bold action, we will achieve our goal of being first choice for engineering and logistics solutions, all while providing optimal fleet support.

## NSWC PHD Participates in Royal Australian Navy Firing Event

By Kenneth Moore, Air Dominance Department, Code A44 Branch Manager



*An SM-2 missile is shown in flight during a Royal Australian Navy live fire exercise near the Pacific Missile Range Facility, June 2011. Photo courtesy of Royal Australian Navy.*

NSWC PHD personnel played a significant role in the Royal Australian Navy guided missile frigate (FFG) Adelaide Standard Missile-2 (SM-2) firing event held June 13-20, 2011, culminating a four-year effort.

Conducted aboard HMAS Sydney (FFG 03) near the Pacific Missile Range Facility (PMRF) Barking Sands, the event served as a combined development and operational test of the ability to deploy the SM-2 in mid-course guidance mode. While in this mode, the SM-2 is instructed to only track the target several seconds before the intercept, allowing the missile to fly silently.

Personnel from PHD were responsible for the design, development, integration and test of the software upgrade to the weapons control processor of the MK 92 Fire Control System, which is a key element in the system that provides the new capability to launch SM-2 missiles from the MK 13 launcher.

"The main objective of the firing event was to verify that the FFG could engage targets with an SM-2 operating in 'mid-course guidance' mode," said Paul Del Popolo, NSWC PHD software development project lead. "It is very satisfying to see all the hard work the team has put into the project over the last few years come together so nicely in achieving the objective."

The primary benefit of mid-course guidance mode is that it allows the SM-2 to fly silently without having to provide constant illumination during its trajectory to the point of intercept. This provides the missile a better chance to fly undetected. In addition, this mode also allows for the engagement of threats at much farther ranges than prior to the upgrade.

A team effort, the successful firing event included NSWC PHD, NSWC Indian Head, Johns Hopkins University Applied Physics Laboratory, BAE Systems Technology Solutions and Services, and the Royal Australian Navy.

NSWC PHD has worked closely with the Royal Australian Navy to deliver a combat-ready missile and associated combat system upgrades, aiding the allied effort to protect national interests at home and abroad. This test event served as a way for PHD personnel to assist a U.S. ally in meeting future operational requirements, while aligning with the Chief of Naval Operations maritime strategy to foster and sustain cooperative relationships with international partners.

# PHD Aids in Norwegian First of Ship Firing Event

By Karen Stanton, Command Communications Office

*Mechanical engineer and project lead Michael Molineux (Back row: fourth from right), Code A25, poses with fellow PHD engineers and RNoN personnel after a successful FOS firing event in Norway, May 2-25, 2011.*



Beginning May 2, 2011, NSWC PHD personnel provided engineering and technical support to the Royal Norwegian Navy (RNoN) during the First of Ship (FOS) missile firing event for the HNoMS Thor Heyerdahl (F 314), the fifth and final Fridtjof Nansen Class Aegis Guided Missile frigate built for Norway's navy.

Requested to lead technical aspects of all phases for the FOS missile firing, PHD engineers conducted an assessment of all hardware associated with Aegis Weapon System, including radars, computers and missile launchers. In addition, they performed at-sea Combat Information Center Air Defense Firing Team training for both the Aegis Weapon System's operability and the missile firing event.

The firing concluded on May 25, 2011, on the Norwegian Naval Test Range, located off the coast of Haakonsværn Naval Base near Bergen, Norway, resulting in the successful launching of an Evolved Seasparrow Missile.

PHD's partnership with the



*An Evolved Seasparrow Missile is obscured by combustion gases during a FOS missile firing from HNoMS Thor Heyerdahl off the Norwegian coast, May 25, 2011.*

RNoN will continue with support for an upcoming Combat Systems Ship Qualification Trials (CSSQT) and other smaller engineering events.

*NSWC PHD representatives accepted the DoD Value Engineering Award at an official ceremony held on June 22, 2011, at the Pentagon. The award acknowledged PHD's development of the Life Extension Refurbishment Program (LERP). PHD personnel pictured are: Capt. DeBow (center) with Kim Foster, along with Tim Ratto (l to r), Arturo Trejo, Jack White and Joseph Aoun. Photo by Dave Love, NSWC Crane.*



# Command Welcomes New Office of Logistics Deputy Commander

By Nichole O'Grady, Command Communications Office



On May 2, 2011, NSWC PHD welcomed Capt. Theodore Olson as the command's new Office of Logistics deputy commander. He is responsible for the team that conducts logistics analysis to identify and assess new requirements, processes and technologies to enhance system supportability and provide superior fleet support.

A career logistician with 26 years experience, Olson is excited to be a part of PHD and is quickly learning the ropes. He noted that many employees have a long history working on base, and that if he had to "say one thing about PHD, this place is just full of smart people."

"It's fun learning what everybody does here, learning what our cycle is and what's important to the command," he added. "I see a lot of potential. There are great things happening here and I'm excited to see what I, as a logistician, can bring to the organization."

In his role as deputy commander, Olson plans to maintain the department's quality output in addition to working cohesively with other departments.

"I want to make sure that Code 300 is operating as best we can," said Olson. "This includes interacting with our counterparts effectively and performing at our highest level while helping to bring out the best in everybody else."

Olson feels the past three months have been a positive experience. He enjoys working for a technical command learning how maintenance engineering and logistics combine to support fleet readiness. Most importantly, Olson is proud to be a part of an organization that clearly supports the Navy.

"This is a great place to work because you can draw a straight line between what we do here at Hueneme and fleet readiness," he said. "Whenever you're in that kind of position, it's an awesome place to be."



Vice Adm. McCoy recognized NSWC PHD Internal Communications Voice Logistics Manager Bob Shehorn (front row, second from left), Code S33, along with fellow NAVSEA co-workers at the NAVSEA TOC Award ceremony held in Washington, D.C., on June 21, 2011. His team, the Carrier Obsolescence Management Working Group, qualified replacement parts for high value critical systems performing 1,806 DMSMS tasks and recommending resolutions for 657 DMSMS cases with combined estimated cost avoidance of \$24.7 million.

# NAVSEA Warfare Center Leaders Convene at Carderock

By William Palmer, NSWC Carderock Division Public Affairs



The NAVSEA Warfare Centers (WFC) held the second of its semi-annual leadership meetings June 9-10 at NSWC Carderock Division's Maritime Technology Information Center in West Bethesda, Md.

WFC Division commanders and technical directors from across the entire organization gathered to discuss best business practices and strategies with an eye towards continued efficiency and reducing total ownership cost for the upcoming fiscal year 2012 budget.

"The general theme across these meetings and across the topics was sharing good ideas, looking for best practices, and looking for how we can all improve our performance," said C.F. Snyder III, NSWC Carderock Division's technical director.

The WFC leaders assessed

and reviewed their unique technical capabilities and actions taken to maintain those capabilities. One commonality explored by the leaders focused on best business practices, specifically concerning how to recruit and hire superior candidates through consistent best strategies of the warfare centers.

The NAVSEA Enterprise Resource Planning (ERP) business system was also widely discussed. Much time was spent on this topic, including progress toward implementation and execution for the "go-live" phase on Oct. 1.

A few special workshop sessions were held for the participants, including a session on workplace safety, moderated by James Brice, director of NAVSEA's Office of Maintenance, Modernization, Environment and Safety. An-

other session about the Navy's active role in early design considerations, known in ship design circles as pre-Milestone B trade space, was conducted by Mary Lacey, deputy assistant Secretary of the Navy for Research, Development, Testing and Evaluation.

NSWC Commander Rear Adm. James Shannon concluded the meeting with remarks centered on leadership. He emphasized to those gathered that they make principled decisions on ethics and work, rely on objective quality evidence in decision-making processes, and operate out in the open. His final point to the leadership was that all WFC personnel are public servants, and should conduct themselves with that foremost in their minds.



FCCS(SW/AW) Ralph Malpica, with wife Carrie at his side, is all grins as he accepts his re-enlistment certificate from Capt. DeBow on July 6, 2011. Malpica served for 20 years and reenlisted for two more. Photo by Kathy Stewart.



## EEO/Diversity Corner

By Suzanne Nicolas, Deputy Equal Employment Opportunity Officer

This section of the PHD *Sentinel* will be used to deliver important EEO and diversity information to our workforce. I feel it is important for me to get the word out in as many venues as possible concerning items and events that are significant for the employees of this command. If you have any questions, you can reach me at x8155.

## PHD Commander Sheds Light on Juneteenth

By Nichole O'Grady, Command Communications Office



During an on-base Juneteenth celebration, featured speaker Capt. William DeBow, NSWC PHD's first African American commander, reflects on the event's intrinsic significance, June 16, 2011. Photo by VC Star/Juan Carlo.

On June 16, NSWC PHD's African American Focus Group hosted a Juneteenth celebration featuring guest speaker Capt. William DeBow, PHD's first African American commander.

The on-base event began with ethnic entertainment provided by the Juneteenth Ensemble Choir, followed by a solo dance performance by NBVC's Loretta Mitchell. DeBow then shed light on Juneteenth's historical and current significance within society.

"For the values and the ideals that are captured in Juneteenth, because we don't re-

ally have an official holiday here in California, they tie very closely to the values and ideals of America," said DeBow. "For me, when we celebrate the Fourth of July, we celebrate the same ideals and values that are captured in Juneteenth, and it ties back to the idea of freedom and equal opportunity for all Americans."

Juneteenth represents June 19, 1865, when slaves across America learned of their freedom. Although the Emancipation Proclamation was issued on Jan. 1, 1863, it took more than two and a half years for the news to reach across the country. Today, the festival commemorates African American freedom, emphasizing education, achievement and the power to overcome.

During his speech, DeBow went on to express the purpose of Juneteenth and how it also celebrates American values and freedom achieved through the U.S. military's enforcement of the Emancipation Proclamation.

"I believe that it's more than just a day of remembrance," he said. "It's about embracing the ideas, cultures and values of American society," he said.

Following DeBow's speech, attendees were invited to close the celebration by sharing in authentic cuisine typically associated with Juneteenth festivities.



NBVC's Loretta Mitchell performs a traditional African American dance in honor of Juneteenth on June 16, 2011. Photo by Alyce Moncourtois.

## May Employee of the Month



Congratulations to Brett Harro, Code S51, for being named NSWC PHD's May employee of the month.

A retired Navy veteran of 20 years, Harro currently serves as the Rolling Airframe Missile (RAM) lead. In this role, he is responsible for the development of new maintenance requirements and for changing existing requirements as needed.

Harro's experience, coupled with his leadership and analytical skills, have helped support many efforts. He introduced an entire set of new maintenance procedures designed specifically for the maintenance philosophy for Littoral Combat Ships (LCS). He also is the lead government representative in developing maintenance requirements for RAM Block 2 and the Launcher Switching Multiplex Unit (LSMU) Technical Refresh (TR) project.

Harro has even excelled as a role model for the German industry, which uses his vast knowledge of maintenance planning and development of technical requirements to train individuals within the German contractor community.

Through his efforts, Harro's

team has provided outstanding service to the fleet in support of RAM launchers, including installation and removal of launchers, and installation of various ordnance alterations.

Harro participated as a RAM subject matter expert on USS George H. W. Bush (CVN 77), USS Ronald Reagan (CVN 76) Combat Systems Ship Qualification Trials (CSSQT) and on the Self Defense Test Ship during enterprise test events. Additionally, he is a team member in support of the LSMU TR Engineering Change Proposal (ECP) drawing review.

With his unfailing can-do attitude and invaluable skills, Harro continues to be an important member of the PHD team and an asset to the fleet.

## Sailor in the Spotlight



This month's Sailor in the Spotlight is FC1 (SW) James Wickham, who works in Air Dominance Department's

SPY-1 Transmitter Engineering Branch (A62).

Wickham began working at NSWC PHD in June of 2008. His major responsibilities include: hands-on waterfront fleet support for the SPY-1 Transmitter; providing Aegis light-off support for scheduled availabilities; system grooming; ship riding support for PHD-conducted tests; and evaluation events. In addition, he provides support of technical manual reviews and distance support to the fleet.

During his Navy career,

Wickham was qualified as an Aegis Ballistic Missile Defense SPY Technician. He earned his associate's degree in electronics technology from Coastline Community College. Currently, he is working towards a bachelor's in computer science from Hawaii Pacific University.

In his free time, he enjoys anything that involves the outdoors and takes advantage of his time in Southern California.

**NSWC PHD wishes  
Fair winds and following seas  
to Cmdr. Steve Meade  
who will "set sail"  
August 2011.**

# NSWC PHD Celebrates 48th Anniversary

By Nichole O'Grady, Command Communications Office

NSWC PHD marked its 48th anniversary of service to the fleet with an afternoon of barbeque and entertainment in Building 445's courtyard on July 14.

PHD Commander Capt. William DeBow opened the barbeque with a few words, remarking on the command's rich history.

"For nearly half a century, this command has accomplished significant feats," he said. "We have seen many successes in our support of Aegis weapon systems, underway replenishment, Tomahawk, vertical launch and cooperative engagement, just to name a few. Port Hueneme has been leading the Navy through evolutions and revolutions in naval warfare systems since before many in our workforce were even born."

Following Capt. DeBow, the command's technical di-



Capt. DeBow poses for a photo with NSWC PHD alumni during the 48th anniversary barbeque luncheon on July 14, 2011. Command memorabilia was on display for personnel to peruse. Photo by Charlie Houser.

rector, Timothy Troske, took the stage. After thanking those who organized and volunteered for the event, he remarked on the outstanding personnel at PHD acknowledging their unwavering dedication.

"I have witnessed directly the extraordinary dedication and skill of our workforce and its detachments, both military and civilian, in supporting our Sailors and the warships on which they serve," said Troske. "Your hard work and dedication have not only helped the command to become more efficient, but you have also assisted in generating significant cost savings."

Afterwards, a drawing was held followed by a barbeque luncheon.



NSWC PHD personnel line up for the 48th anniversary barbeque buffet held in the courtyard of Building 445 on July 14, 2011. Photo by Charlie Houser.

Capt. William DeBow and Tim Troske pose for a photo with S Department employees prior to beginning a Fireside Chat on June 29, 2011. Photo by Esthela McKenzie.



[video on portal](#)

# Comms Corner

By Michelle Heaton, Director, Command Communications



The Command Communications Office, Code 03, provides public affairs, video teleconferencing and audio/visual services to the command. This section of the *PHD Sentinel* is dedicated to providing you with important information on topics related to these areas each month. I welcome your thoughts and suggestions, and can be reached at x5125.

## Twenty Things You Need to Know - Tips for Keeping Safe and Staying Out of Trouble Online

- 1) You are personally responsible for your actions.
  - Ensure Navy and Marine Corps content is accurate and appropriate.
  - Be thoughtful about the non-service related content you post.
  - Be aware that you lose control over content once posted on the Internet.
  - Always use your best judgment and keep in mind how the content of your posts will reflect upon yourself, your command, and the Navy – now and in the future!
- 2) Don't break the law.
  - Adhere to federal law, DOD and DON regulations and policies online.
  - If you violate federal law, regulations or policies, you are subject to disciplinary action under the Uniform Code of Military Justice (UCMJ).
- 3) Identify yourself.
  - If appropriate, identify yourself as DON personnel, including rank, military component and status (active or reserve).
  - If you decide not to identify yourself as such, you should not disguise, impersonate or otherwise misrepresent your identity or affiliation with the DON.
- 4) If you wouldn't say it to your grandma, don't post it.
  - Don't post anything that could be perceived as: defamatory, libelous, obscene, abusive, threatening, racially or ethnically hateful, or otherwise offensive or illegal.
- 5) Avoid spillage.

Do not post any information that is: classified (confidential, secret, top secret); Controlled Unclassified Information (CUI); Sensitive But Unclassified (SBU); For Official Use Only (FOUO); Law Enforcement Sensitive (LES); sensitive homeland security information; Security Sensitive Information (SSI); Critical Infrastructure Information (CII); or might otherwise violate operations security (OPSEC).
- 6) Protect your privacy.

Don't share your social security number, home address, birth date, birth place, driver's license number, or other personally identifying information.
- 7) Protect the privacy of others.

Don't post information that would infringe upon the privacy, proprietary, or personal rights of others.
- 8) Don't break the law. (Didn't we already say this?)

Don't use any words, logos or other marks if such posting would infringe upon the trademark, service mark, certification mark, or other intellectual property rights of the owners of such marks without the permission of said owners.
- 9) Use DON graphics where appropriate.
  - Use of DON seals is restricted to OFFICIAL USE ONLY.
  - Use of other Navy symbols is permissible in unofficial posts as long as the symbols are used in a manner that does not bring discredit upon the department, does not result in personal financial gain, and does not give the impression of official or implied endorsement. Any other use requires permission.
  - DON personnel who violate the use of DON symbols are potentially subject to legal proceedings.

# Comms Corner (continued)

- 10) Don't share information that is not approved for public release.
  - Not memos, not e-mails, not meeting notes, not message traffic, not public affairs guidance, not pre-decisional materials, not investigatory information, not proprietary information...just don't do it!
- 11) Talk about what you know best.

Only discuss Navy issues related to your professional expertise, personal experiences or personal knowledge.
- 12) Correct misinformation politely.
  - Professionally and respectfully correct errors and misrepresentations made by others regarding the Navy.
  - Not sure if you have accurate information to correct error? Refer to the chain of command or public affairs for guidance.
- 13) Don't get political.

Restricted political opinion can be expressed: if your communication identifies you as a member of DOD/DON, it should clearly state the opinions are yours; you cannot solicit votes for or against a party, candidate or cause; you cannot participate in any interview or discussion as an advocate for or against a party, candidate or cause; commissioned officers must avoid contemptuous words against the President, Vice President, SECDEF, Dept. Secretary (i.e. SECNAV), Governor and Legislature of any state he or she is on duty in; don't express or imply Navy endorsement of any opinions, products or causes.
- 14) Look out for bad guys.
  - Do not click links or open attachments unless the source can be trusted!
  - Cyber criminals pretend to be people they are not in order to deceive DON personnel into performing actions that launch cyber attacks, download viruses and install malware and spyware onto computers.
- 15) Use strong passwords.

Whenever possible, use at least 14 characters or more.
- 16) Don't grant access to people you don't know.
  - This includes "friends" and "followers" on social networks.
- 17) Choose applications wisely.
  - Applications (i.e. Facebook's Farmville) may share your personal information with other users on Facebook AND external to Facebook.
  - Check the settings of EACH application you use before "allowing access."
- 18) Check privacy settings.

Don't accept default privacy settings

  - Make sure only your family and friends (people you know WELL) can see your photos, full name and other information.
  - Assume that all information shared can be made public.
- 19) Look out for intruders.
  - Notice any changes to your account that you didn't make?
    1. Change your password
    2. Think about how someone may have received access to your site and make appropriate changes to avoid that in the future
  - Check your accounts daily for possible use or changes by unauthorized users.
- 20) Use anti-virus and anti-spyware.
  - Use anti-virus and anti-spyware software on your personal computer and keep them up to date!
  - DON personnel can download free anti-virus software from Navy Information Assurance at <https://infosec.navy.mil/av/index.jsp>.
  - There is also free software available online:
    - AVG Anti-virus: <http://free.avg.com/p>
    - Avast Anti-Virus: <http://www.avast.com/>
    - Ad Aware Anti-Spyware: [www.lavasoft.com/products/ad\\_aware\\_free.php](http://www.lavasoft.com/products/ad_aware_free.php)
    - Microsoft Security Essentials: [http://www.microsoft.com/security\\_essentials](http://www.microsoft.com/security_essentials)



# NAVSEA Enterprise Resource Planning

Less than 100 days away from Go-Live!

Summer is here and we are less than 100 days away from the Navy Enterprise Resource Planning (ERP) Go-Live for the NAVSEA Warfare Centers (WFC). As we approach October, the primary focus is completing the required training for Basic Users and Power Users. By now, most WFC employees have received an email notification providing a link and instructions for Basic User Web-Based Training (WBT). Currently, about 2,500 WFC employees have completed the three courses in Basic User WBT, which takes about four hours.

Additionally, 13 School House locations have been erected across the country along with nearly 400 School House instructors to receive final certifications as ERP instructors, so they can help teach the rest of the WFC workforce. WFC personnel designated as Power Users will have additional training requirements because they will use Navy ERP to do all or part of their regular job functions (i.e. purchase card buyer, supervisor, project manager, etc.). Therefore, it was critically important for Power Users to complete the three WBT courses in July.

Power User training began in August. Power Users will receive notifications from their respective School House director regarding the additional Power User WBT and/or instructor-led classroom training. Completion of WBT and ILT are required for access to Navy ERP.

## ERP impact on travel

Summer is also a time when employees traditionally take vacation, so please plan ahead with consideration to any required Power User training. On a similar note, official travel during the Warfare Center ERP cutover period will be limited to travel that is determined to be "Mission Critical." Therefore, official travel from Sept. 25, 2011, until approximately mid-December will require a Mission Critical (MC) form. For additional questions regarding mission-critical official travel, please contact your NSWC PHD Division Site Lead, Wayne Honea, at (805) 228-0365, or select the "ERP Drumbeat" rectangular icon located on the lower right side of the PHD portal main page.

For questions on Navy ERP, visit <https://navsea.portal.navy.mil/function/erp>.

Timeframe	Milestone/Action (subject to change based on implementation events)
July	<ul style="list-style-type: none"> <li>- 5 July – 29 July: School House Instructor Training (NCC)</li> <li>- 12 July – 31 Aug: Catch-up practice Phase II</li> <li>- All Power Users should complete WBTs before attending School-House training</li> <li>- Basic Users continue WBT</li> </ul>
August	<ul style="list-style-type: none"> <li>- School-House Training for Power Users begins</li> <li>- Basic Users continue WBT</li> </ul>
September	<ul style="list-style-type: none"> <li>- Power Users continue School-House training</li> <li>- Basic Users continue WBT</li> <li>- 25 September: Travel requests need to be approved unless it is determined to be "mission critical."</li> </ul>
October 1	<b><i>Navy ERP Go-Live</i></b>
(October – December)	<ul style="list-style-type: none"> <li>- "Navy ERP Cutover" begins. During Cutover, the data from our legacy systems is converted into ERP. As the data is loaded and validated in ERP, we will begin to sunset legacy systems. During this time, we can expect a reduced amount of business transactions and day-to-day operations because our workforce will be focusing on the transition instead of on the normal workload.</li> <li>- All Basic Users will be required to complete WBT NO LATER THAN 18 Nov. as this affects the ability to enter/approve time cards.</li> <li>- All Basic Users and Power Users will continue to enter their Time and Attendance in SLDCADA (Standard Labor Data Collection and Distribution Application). We anticipate that Basic Users and Power Users will begin to enter Time and Attendance in Navy ERP by mid-November.</li> </ul>
December 16	<b><i>Goal for NAVSEA WFCs to resume Full Operational Tempo (FOT)</i></b>
January	- All Catch-Up roles will be turned off by Navy ERP. Any Catch-Up personnel who have not

## Engineer in the Spotlight



Andrew (Andy) Messerman started working at NSWC PHD in January 1989 as a member of the Rolling Airframe Missile (RAM) Equipment Engineering Branch, and after a couple of years in RAM, transferred to the Vertical Launching System (VLS) program until the late 1990s. Currently, he is working for the Land Attack Department's (L33) New Construction Installation Engineering Branch.

Messerman is attached to the Bath, Maine, field office where he holds the title of Tomahawk test director. In addition to providing technical expertise to the Tomahawk fire control community, he is involved with the Naval Fire Control and MK 160 Gun Fire Control Systems.

As a test director, he provides hands-on testing and troubleshooting from initial equipment light-off until integration testing at sail away.

Additionally, Messerman provides technical guidance and functions as liaison to SUPSHIP, Bath Iron Works, the Navy and a variety of DoD contractor counterparts. As a Tomahawk test director, he has detailed knowledge of communication equipment, cryptographic equipment, launch interfaces, Internet provider-based local area network interfaces, navigation interfaces, security requirements and all associated documentation. He works closely with ships' force, providing training and technical expertise, and ensuring all equipment issues are tracked and resolved.

Messerman attended college at the University of Michigan where he studied economics and business. He later transferred to the University of Arizona where he received a Bachelor of Science in electrical engineering.

Messerman has been married for 23 years and has three children. He enjoys playing golf and guitar, but more than anything else, just being a dad and "hanging out" with his family.

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## Junior Professional in the Spotlight



Natthawit (Nate) Nomnawee began his career with NSWC PHD in June 2009 as a mechanical engineer.

His primary task working for the Hardware Engineering branch (Code L42) is reliability, maintainability and availability (RM&A) engineering. Nomnawee tracks Tactical Tomahawk Weapon Control System (TTWCS) hardware failures from the fleet including those reported by CGs and DDGs. With this information, he monitors program suitability indicators to identify trends, and presents the results to the

TTWCS Failure Tracking Group (FTG). In turn, the TTWCS FTG shares the results with the Tomahawk hardware, logistics and supportability communities in order to investigate failures and take appropriate actions.

Nomnawee also works as a TTWCS hardware engineer performing product research and verification for commercial, off-the-shelf items for TTWCS to support obsolescence issues and also for the future version of TTWCS. In addition, he assisted with DDG 1000 Tomahawk hardware production, assembly and installation for software development labs.

Nomnawee graduated with a bachelor's in mechanical engineering from Cal State Los Angeles, where he is also working towards a master's in mechanical engineering. He currently holds the State of California Engineering-In-Training certification and is DAWIA Level I certified. Currently, Nomnawee is working on becoming DAWIA Level II and Lean Green Belt certified.

As a newlywed, Nomnawee enjoys spending time with his wife, and in his spare time, he takes advantage of snowboarding and golfing.

# Sentinel Innovation Forum Highlights Government-Created Software Program

By Nichole O'Grady, Command Communications Office

NSWC PHD's Sentinel Innovation Forum held on July 13 unearthed not the latest technological innovation, but rather a software program with the potential to simplify databases.

Known as IN-SPIRE, guest representatives from Pacific Northwest National Laboratory (PNNL) provided an overview of the visual analytics software system.

"We have a lot of data bases and data structures where there are free text fields," said Dave Scheid, NSWC PHD supervisory technician. "With this software, it allows you to be able to run that information, track reoccurring topics and then narrow the data set down so that you can take a look at where those problem areas may or may not exist."

IN-SPIRE automatically conveys large sets of unformatted text documents, including technical reports, Web data, newswire feeds and message traffic. It allows analysts to spend more time exploring the information they

find most relevant, and less time sifting through masses of documents that are not. In addition, IN-SPIRE contains a wide array of interactive tools to explore themes, trends, patterns, relationships and more.

Nick Cramer, one of PNNL's guest representatives, emphasized the program's ability to provide a transparent platform for quick and easy analysis.

"It's a good generalized tool to help you interpret and analyze a significant amount of information more efficiently," he said. "It really helps accelerate your ability to understand thousands of documents that you might otherwise miss."

Originally developed and tailored for the government, the program would be inexpensive to implement and could provide much

needed data support.

"They've created a low-cost way to do remote monitoring and data gathering that is to be plugged into an organized and easy-to-use system," said Scheid. "If you start thinking about the implementation of what we have to do and to gather data in addition to distance support, then it really becomes important."



Nick Cramer, a representative from PNNL, explains the purpose of a visual analytics software known as IN-SPIRE during the Sentinel Innovation Forum held on July 13, 2011. Photo by Nichole O'Grady.



Roger Yoshida, Code T62, poses in the SWEF's Self Defense Test Ship Remote Control Center on June 17, 2011, with members of Camarillo Cub Scout Pack 3825. The cub scouts received a tour of the ship prior to visiting SWEF. Photo by Karen Stanton.

# From the Safety and Security Office

## Slips, Trips and Falls

The leading cause of mishaps here at NSWC PHD, as well as at our remote sites and during travel, continues to be slips, trips and falls.

When you hear the word “falls,” you probably think it refers to falling from a ladder, a roof or some other high place. It is true that falls from heights do cause the most injuries, and they are usually the most severe.

But did you know that about one-third of all lost-time fall injuries occur when workers fall down from a slip or trip? For example, a worker might fall after stumbling over a box, tripping on some garbage or slipping on a wet surface.

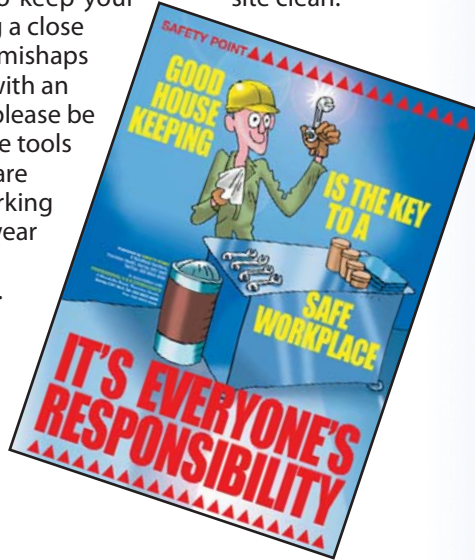
From 2004 to 2008, more than 2,000 workers suffered lost-time injuries as a result of falling from slips and trips. Statistics show that the part of the body most frequently hurt in such injuries is the knee.

Other parts frequently injured are the shoulder, ankle, back and wrist. The biggest hazard for slips and trips is poor housekeep-

ing (not cleaning up), so please pay attention to this for your safety. The easy solution to this hazard is to keep your site clean.

Running a close second for mishaps is contact with an object. So please be aware of the tools and hardware you are working with, and wear your safety equipment.

STAY SAFE—the command needs you!



GMC Curtis Gromley exits his retirement ceremony with wife Christine, followed by his children Conner, Colton and Catrina (not visible). Gromley retired after 22 years of service in an official ceremony on June 17, 2011, at the White Sands Detachment.



Lt. Cmdr. Art Mueller (r) reads the reenlistment oath to FC1 Jared Hofmann who reenlisted for six more years of military service, Jan. 29, 2011. Photo by Esthela McKenzie.

## Technician in the Spotlight



Ken Sheets began his career with NSWC PHD in September 2007, and is currently an engineering technician and fleet advocate representative with the Fleet Advocate Office (Code 209).

Sheets is an imbedded representative with the staff of Commander Naval Surface

Forces (CNSF) and Commander Naval Surface Forces U.S. Pacific Fleet (CNSP) in San Diego. He provides weapon and combat systems support to the CNSF/CNSP N6, N46 and N47 directorates, which cover all systems supported by PHD.

He is a conduit for fleet staff requests for PHD services, such as technical support, material support, data analysis and engineering solutions, and assists with development of CNSF/CNSP instructions, memorandums, messages and briefs.

Sheets is responsible for presenting flag level briefs to the admiral and his staff on matters of interest to PHD,

along with issues pertaining to weapons and combat systems readiness.

In addition, Sheets analyzes data and provides reports from fleet evolutions, inspections and assessments for PHD engineers, bringing the “voice of the fleet” to PHD discussions and meetings for fleet readiness, capabilities and maintenance support improvements.

After 26 years of service, Sheets retired from the Navy in 2002 as a master chief electronics technician and command master chief. In his spare time, he enjoys, travel, camping and fishing.

## Logistics Intern in the Spotlight



Astrid Michelle Alcazar began her internship at NSWC PHD on Aug. 16, 2010, and will complete the program in August 2013.

Rotating throughout the Air Dominance Department, Alcazar has acquired knowledge in a variety of logistics supportability functions. She was first assigned to her

home code, A46, where she assisted in software configuration management and quality assurance.

Alcazar then spent time with A Department’s Equipment Supportability Branch, providing her the opportunity to perform two AWS Maintenance Assistance Modules OSI Validations; one on USS Cole (DDG 67) in Virginia; and the other on USS Milius (DDG 69) while in port at PHD.

“Participating in these validations gave me an understanding on how important it is for us to do our job well,” said Alcazar. “The fleet depends on the quality of work we produce to perform their military missions.”

Currently, Alcazar is rotating through Code A35, the Technical Documentation

Branch, participating in the yearly Aegis Maintenance Life Cycle updates of 415 technical manuals. She is part of the Quality Assurance team that will be doing the final review of these manuals before final approval for production to the fleet. In addition, she is training with Technical Manual Management Agents to gain knowledge of their processes.

Alcazar earned her bachelor’s in business administration from the University of La Verne, where she is also working to complete a master’s in leadership and management. She is Level I DAWIA certified and currently working towards her Level II certification.



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# From the Safety and Security Office

## Staying Eligible for Security Clearance

Did you know that your financial situation can affect your ability to maintain a security clearance and your job?

If you hold a U.S. government clearance, you are enrolled in a continuous evaluation program that scrutinizes your eligibility to access classified information. Financial issues are just one of 13 areas that are reviewed under the personnel security standards from SECNAVINST 5510.30A, the Department of Navy's Personnel Security Program—but they can have a big impact on job retention.

SECNAVINST 5510.30A identifies the criteria for entrusting individuals with classified information or assigning them to sensitive duties. The Department of Navy Central Adjudication Facility (DONCAF) uses this as a guideline to determine whether a person is eligible for a security clearance. DONCAF evaluates the individual's personal information, including his or her finances. Any unexplained affluence, unresolved issues or excessive debts raises a red flag and may bring into question the person's loyalty, reliability and trustworthiness.

Other issues may cause security concerns as well. SECNAVINST 5510.30A lists the following as possible bases for denial or revocation of a security clearance:

1. Involvement in activities which, or sympathetic association with persons who, unlawfully practice or advocate the overthrow or alteration of the United States Government by unconstitutional means.
2. Foreign influence concerns or close personal association with foreign nationals or countries.
3. Foreign relationship, dual citizenship or foreign monetary interests.
4. Sexual behavior that is criminal or reflects a lack of judgment or discretion.
5. Conduct involving questionable judgment, untrustworthiness, unreliability or unwillingness to comply with rules and regulations, or unwillingness to cooperate with security processing.
6. Unexplained affluence or financial issues/excessive indebtedness.
7. Alcohol abuse.
8. Illegal or improper drug use/involvement.
9. Apparent mental, emotional or personality disorder(s).
10. Criminal conduct.
11. Noncompliance with security requirements.
12. Engagement in outside activities that could cause a conflict of interest.
13. Misuse of Information Technology Systems.

Under the current economic conditions, financial issues may arise. The best way to protect yourself, and your job, is to report any incident or situation that could affect your security clearance to your security officer or manager, and seek assistance to resolve the issue.

By doing this, you can maintain your credibility and continue to help NSWC PHD maintain its distinction as a Navy Center for Excellence.

For more information or questions, please call Dave Haugland, NSWC PHD Security Manager, at (805) 228-7196.

**CLASSIFIED**



*Dr. Jocelyne Eberstein presents the benefits of acupuncture at a command wellness event on June 30, 2011. During her speech, she explained how to overcome chronic conditions and lead a healthier life with the use of acupuncture. Photo by Esthela McKenzie.*



ERP Site Lead Wayne Honea hosts NSW C PHD's fourth town hall meeting on June 24, 2011. Honea remarked on the lengthy process involved with implementing ERP, stating "it takes 800 hours to load ERP to the system for use with more than 100,000 records being prepared." Photo by Nichole O'Grady.



Capt. William DeBow, Tim Troske and Jim Vallas meet with Code A21 and A27 on July 13, 2011. The discussion focused on future growth opportunities in support of the fleet, including the Aegis Ashore Combat System and the use of best-practice efficiencies such as Lean. Photo by Kathy Stewart.



Code A66 meets Capt. William DeBow and Jim Vallas for a Fireside Chat on July 6, 2011. DeBow briefed the group of potential command growth and opportunities within the area of logistics support. Photo by Kathy Stewart.



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# RHUMB LINES

*Straight Lines to Navigate By*



July 14, 2011

## Trident Warrior: Advancing Future Capabilities Through Fleet Experimentation

*"This event consists of more than 60 experimental initiatives covering a broad range of surface, air and submarine warfare areas. This is the ninth year in the series of experiments, and Trident Warrior 2011 (TW11) will continue enhancing the rich history of the series."*

– Vice Adm. Daniel Holloway, commander, U.S. 2nd Fleet

Today's wars are waged in space, at sea, on land and in cyberspace. To maintain an advantage over adversaries in these domains, the U.S. Navy must continually evaluate its maritime capabilities and concepts of operation. The primary goal of the Trident Warrior experiment is to improve information dominance capabilities, maritime warfighting policies and procedures and interoperability between U.S. and coalition partners.

### Validating Future Technologies in a Maritime Operating Environment

- During multiple [planning](#) conferences, the scope of data collection is refined by identifying experimentation initiatives. Targeted objectives are developed, against which data will be measured and analyzed.
- In the execution phase, TW11 puts emerging technologies to the test in an operational environment to ensure they perform as expected where it matters most to Sailors and Marines: at sea. [TW11](#) provides an organized venue for [fleet experimentation](#), streamlining and simplifying the process for partners to gain access to fleet assets.
- During an underway experimentation period, TW11 will temporarily deploy advanced capabilities on ships to collect real-world performance data and feedback from fleet users. Insights gained from data collected during the experiment will lead to recommendations to U.S. Navy decision makers regarding future capability investments for the fleet. TW11 is directed by [U.S. Fleet Forces Command](#) (USFF) and sponsored by U.S. 2nd Fleet (C2F) and U.S. 5th Fleet (C5F).

### Developing and Improving Tactics, Techniques and Procedures

- In addition to experimenting with new technologies, the agenda includes developing and implementing improvements to tactics, techniques and procedures (TTPs) to aid maritime forces, encompassing all aspects of the modern warfare spectrum – air, land, sea, and cyber.
- Experimental initiatives for technologies and TTPs span a wide range of focus areas including: command and control; intelligence, surveillance, and reconnaissance; electronic warfare; networks; coalition interoperability; information operations; fires; cross-domain solutions; information transport; maritime domain awareness; and coalition communications.

### Fostering [Partnerships](#) to Maintain the Information Advantage

- TW11 includes participants from USFF; C2F and C5F; program executive offices; U.S. Navy systems commands; the Naval Postgraduate School; academic and industry partners; as well as multiple ships and aircraft from the U.S. Navy and Air Force.
- Multinational participants include Australia, Canada, New Zealand, the United Kingdom and France.

### Key Messages

- TW11 provides an organized and streamlined venue for experimenting with fleet assets.
- TW11 accelerates the introduction of new and improved capabilities, technologies and TTPs to the fleet.
- Incorporating an organized process allows TW11 to provide measurable and relevant results for warfighters.

### Facts and Figures

- TW11 includes two numbered fleets, seven ships, 12 aircraft, numerous supporting surface craft and more than 12,000 military and civilian personnel in six countries.
- Since 2003, Trident Warrior has provided experiment support for more than 600 program of record initiatives, non-programs of record and 110 validated and improved TTPs.



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*USS Independence (LCS 2) sails at sunset during the Manned RIB Launch and Recovery testing near Jacksonville Operational Area, June 2011. PHD personnel participated in the overall execution, acting as the resources in place, coordination and single POC to ship force. Photo courtesy of NSWV Carderock Combatant Craft.*

