

September 2019

Coastal COMPASS

THE FORCE BEHIND THE FLEET

Flag of Honor

The names of those killed in the terrorist attacks of 9/11
and forever it will represent their immortality
We shall never forget them

SEPTEMBER 11

WE WILL
NEVER
FORGET



NSWC Panama City Division
Ensuring Warfighting Dominance in the Littoral Battlespace

Coastal COMPASS

THE FORCE BEHIND THE FLEET

September 2019 | Vol. 7 Issue 9



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About the Publication

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To contact NSWC PCD's Fraud, Waste, and Abuse Hotline
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On the Cover



A flag containing the names of all the victims of the Sept. 11, 2001, terrorist attacks rests on an easel at the 9/11 memorial near the San Angelo Museum of Fine Arts in San Angelo, Texas, Sept. 11, 2018. San Angelo hosted a 9/11 ceremony to honor the 2,977 victims who died during the attacks. U.S. Air Force photo by Staff Sgt. Joshua Edwards/Released

Featured



The Sea Fighter (FSF-1) team from Naval Surface Warfare Center Panama City Division, rescued three individuals after their vessel began taking on water July 10.



After nearly 25 years of mission tests, Landing Craft, Air Cushion (LCAC) 66 will be disassembled and demolished signifying its removal from fleet service.

In This Issue

View from the Bridge

Feature

Welcome Aboard	4	Hispanic Heritage Month	13
Calendar of Events	5	Research Commons	14
Tarasek Visit	5	Workforce Connection	15
Navy expands innovation through UUVs	6	Military Awards	15
Navy vessel assists in recovering mariners	7	People of Panama City	16
NSWC Panama City at BALTOPS 2019	8	Protocol	16
NSWC volunteers provide school supplies	8	FIAR	17
NSWC PCD laboratory expands capabilities	9	Civilian Length of Service	17
LCAC 66	10	DAWIA	18
High-Grade Promotions	11	Lifestyle	19
	12	Safety	19

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View from the BRIDGE



Ed Stewart (SES)
Technical Director
NSWC PCD



To better support over 150 projects that we execute here at PCD, ... we plan to roll out next fiscal year several new initiatives connected to our Strategic Campaign Plan and our Talent Management Framework.



— **Ed Stewart**
Technical Director

NSWC PCD Team,

I am sure that this coming October, a certain anniversary will be on everyone's mind; but, for this month, I wanted to bring your attention to another significant date. September marks the 18th anniversary of the September 11th terrorist attacks. I think a lot of us remember where we were when we heard the news. The Navy was entrusted with the Ground Zero flag raised by the New York Fire Department and deployed within hours of the attack. Those attacks should serve as a reminder that the work we do here ensures that the Navy continues to be a global force for security and stability.

Rapidly modernizing our Navy and keeping pace with technology will remain a priority for us. Last month, I met with Mr. Larry Tarasek, Technical Director of NSWC Carderock here at Panama City to highlight all the hard work you have done to advance unmanned systems. I also got to see firsthand our impressive collaborative work in support of the UISS program with NSWC Carderock's Ft. Lauderdale facility in south Florida at the South Florida Ocean Measurement Facility. These visits strengthened an already stellar relationship and helped us gain a greater understanding of how our respective roles and capabilities complement each other to add value and help more programs forward across the goal line and into the hands of the Fleet.

I continue to review our age demographics and remain concerned about the

mass exodus of experience through retirements that is occurring now, and will continue to occur, over the next several years. Fortunately, we are attracting top talent to PCD to carry on our tradition of execution excellence; however, these new professionals will be asked to assume the mantle of leadership far sooner than most of us "gray beards" did as we were coming up through the system. To better support over 150 projects that we execute here at PCD, and help make our new professionals better prepared to meet the challenges of the future, we plan to roll out next fiscal year several new initiatives connected to our Strategic Campaign Plan and our Talent Management Framework. The first is an enhancement to our New Professional Rotation program that will use planned rotations and foundational learning to prepare our new technical and logistics professionals for advancement to the journeyman level. The specific details will be ironed out with the help of our Branch Heads and will be presented to the workforce in the coming weeks. The second is a Leadership Campus within our PCD University structure designed to sharpen our leadership skills across all of PCD no matter where you are in your career or within the organization.

More to follow as we flush out the details. These investments in our employees will help us achieve our objective to be the employer of choice while also ensuring warfighting dominance in the littoral battlespace.

Welcome ***ABOARD***



U.S. Navy photo by Haley Walker

CODE 01	Vu Cao	01B1
	Linda Magee	01B1
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CODE 10	Linda Strickland	1014
CODE A	Scott Crow	A43
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	Timothy Daniel	X11
	Virginia Daniel	X11
	Cody Delaney	X21
	Connor Hodges	X11
	Joseph Pennington	X12
	Jason Reyes	X13
	Patrick Tam	X24

Calendar of **EVENTS**

SEPTEMBER

2 Labor Day
Federal Holiday

6 Hispanic Heritage Month Special Meal
Location: Seashore General Mess
For more information,
call (850) 235-5023

11 9/11 Remembrance Ceremony
Time: 7:45 a.m.
Location: MWR Marina
9/11 Remembrance Special Meal
Location: Seashore General Mess
For more information,
call (850) 235-5023

13 Free Popcorn Friday
Time: 11 a.m.
Location: MWR Marina

17 Free Paddleboard Class – Level One
Time: 5 p.m.
Location: MWR Marina
For more information,
call (850) 234-4402 (Option 5)

18 Wellness Presentation Mission Nutrition: Emotional eating
Time: Noon
Location: Long Glass Conference Room
(Bldg. 308)

20 Live Music featuring String Theory Acoustic Duo
Time: 4:30 p.m.
Location: Main Deck Pub and Grill

24 Free Paddleboard Class – Level Two
Time: 5 p.m.
Location: MWR Marina
For more information,
call (850) 234-4402 (Option 5)

Carderock Division technical director visits

From NSWC PCD Public Affairs

Larry Tarasek (SES), technical director at Naval Surface Warfare Center (NSWC) Carderock Division, visited NSWC Panama City Division (PCD) Aug. 14.



During his visit, Tarasek and NSWC PCD leaders presented personnel of the Unmanned Influence Sweep System Test and Evaluation Team with the Naval Sea Systems Command Warfare Center Collaboration Award for significant collaboration between NSWC Carderock and NSWC PCD required to successfully complete the complex characterization testing.



U.S. Navy photos by Eddie Green

Navy expands innovation through unmanned vehicles, saving time and money

By Katherine Mapp
NSWC PCD Public Affairs

PANAMA CITY, Fla. — Naval Surface Warfare Center Panama City Division (NSWC PCD) is leading a collaborative and innovative effort in development of modular, inexpensive unmanned systems.

Originally called the Swarm Minimum Viable Product (Swarm MVP), this innovative project is now collectively known as the “microSwarm Family of Systems,” or “μFOS.” The μFOS project seeks to reduce cost and manufacturing complexity in unmanned vehicle systems while maintaining performance and integrating the land, sea, and air domains through modular open architecture based command and control.

According to Dr. Cameron Matthews, NSWC PCD μFOS principle investigator, the program began when he recognized a need for inexpensive unmanned underwater vehicle (UUV) assets as targets under his counter UUV (cUUV) efforts.

“I got into this business to break vehicles, not to make vehicles,” said Matthews. “Along with co-partners on the effort Jeremy Hankins and Brian Wallace, we set out to develop a concept for extremely low cost vehicles that could do more than just be cannon fodder.”

Matthews credited the work largely to what was originally a Naval Innovative Science and Engineering (NISE) project led by NSWC PCD Scientists Drs. Drew Lucas and Patrick Walters. Drs. Walters and Lucas were working with NSWC Carderock, Naval Undersea Warfare Center (NUWC) Newport, and NUWC Keyport to develop inexpensive autonomy systems, more for testing artificial intelligence and machine learning than complete systems.

“We recognized what Lucas and Walters were doing with their autonomy testbed could save the U.S. Navy millions down the road if we were prosecuting targets that cost a few thousand dollars each rather than upwards of a million each,” said Matthews. “It was a short while later we realized that most of the platform components were sufficient to support many missions typically reserved for our more attractive but expensive and complex platforms.”

Through three-dimensional printing, Matthews said many parts on a UUV, unmanned Aerial systems, or unmanned surface vehicles, commonly referred to in general as UxVs, can be quickly and cheaply produced rather than procured. While working with Lucas and Walters to develop government designs, Hankins and Wallace collaborated in parallel with industry partners to develop the beginnings of mass producible systems and identify the required facilities.

“The design of μFOS has quickly led to balancing efforts between “Lean” practices (just enough, right on time) where parts are printed on demand and the older model of stockpiling components in quantity such that you never run out,” said Matthews. “The μFOS system is built to be interchangeable with batteries and payload. If a fin breaks, users can print another. If users want to change software, another version can be easily downloaded. Best of all, if a user loses the system, another one can be made and delivered in short order at little cost.”

The cost savings to the Navy is significantly increasing as development is furthering.



PANAMA CITY, Fla. — Lead scientists and engineers from Naval Sea Systems Command Warfare Center Divisions pose for a photo as a representation of a collaborative and innovative effort in development of modular, inexpensive unmanned systems collectively known as the “microSwarm Family of Systems,” or “μFOS.” The μFOS project seeks to reduce cost and manufacturing complexity in unmanned vehicle systems while maintaining performance and integrating the land, sea, and air domains through modular open architecture based command and control. U.S. Navy photo by Eddie Green

“We’ve seen an overall reduction of about 40 percent for functional vehicles,” said Matthews. “We anticipate getting down to about 70 percent of our starting point for a baseline vehicle, which easily falls under \$10k per unit even without mass production incentives.”

Matthews said the μFOS project is important because by the end of this project, μFOS will have already accrued over 500 hours of at-sea test time. This has greatly informed the design requirements to make the vehicles work consistently enough to perform their missions as they roll off the assembly line. NSWC PCD expects to one day be able to develop vehicles through industry partners at rates of many thousands per year.

“The most relevant part for us isn’t how they’re used. The systems are appropriate to conduct a lot of missions, whether it’s mine countermeasures, anti-submarine warfare, or be a target for cUUV training,” said Matthews. They are easy to fabricate, work as advertised, and are cost effective enough to be considered expendable.”

NSWC PCD has been working across the Naval Research & Development Enterprise, as well as with industry partners, to develop cost effective target drones, and looks forward to working in the future to be able to release government off the shelf designs to industry that will allow the Navy to leverage industry’s manufacturing capabilities to produce large volumes of product with little effort from both sides. Future efforts include expanding the number of UxV components that can be cost-effectively produced in the laboratory, including motors and electronics.

The design and innovation of these unmanned systems is sponsored through NISE funding.

Navy research vessel assists in recovering distressed mariners

By Katherine Mapp
NSWC PCD Public Affairs

CLEARWATER, Fla. – The Sea Fighter (FSF-1) team from Naval Surface Warfare Center Panama City Division, rescued three individuals after their vessel began taking on water 10 miles west of Clearwater Pass July 10.

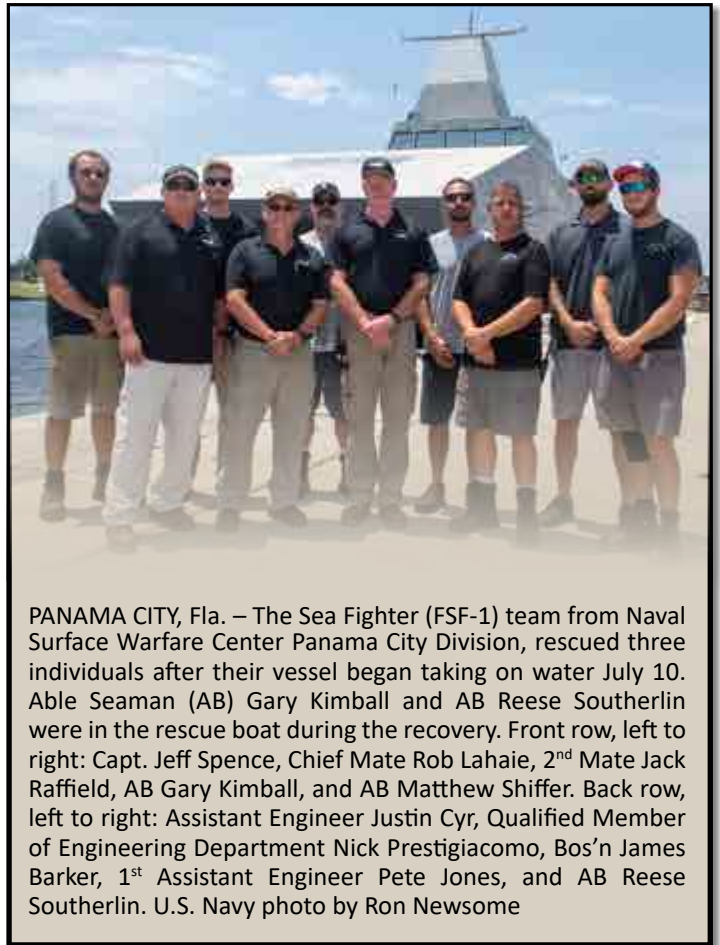
The Sea Fighter team, consisting of all hands on watch plus boat crew and launch team, recovered the boaters from the water and transferred them to the Coast Guard Station San Key 29-foot Response Boat-Small (RB-S). No injuries were reported.

The RB-S crew transported the boaters to Belleair Causeway Boat Ramp where Florida Fish and Wildlife Conservation Commission members were waiting.

Jeff Spence, master of the Sea Fighter, said he and his crew remain prepared for any scenarios that may arise.

“Though a rescue is not typically the nature of the Sea Fighter’s mission, mariners are expected to respond when and where they can to provide assistance to vessels in distress,” Said Spence.

The Sea Fighter is a test platform of NSWC PCD and the Office of Naval Research.



PANAMA CITY, Fla. – The Sea Fighter (FSF-1) team from Naval Surface Warfare Center Panama City Division, rescued three individuals after their vessel began taking on water July 10. Able Seaman (AB) Gary Kimball and AB Reese Southerlin were in the rescue boat during the recovery. Front row, left to right: Capt. Jeff Spence, Chief Mate Rob Lahaie, 2nd Mate Jack Raffield, AB Gary Kimball, and AB Matthew Shiffer. Back row, left to right: Assistant Engineer Justin Cyr, Qualified Member of Engineering Department Nick Prestigiaco, Bos’n James Barker, 1st Assistant Engineer Pete Jones, and AB Reese Southerlin. U.S. Navy photo by Ron Newsome

NSWC Panama City supports mine warfare mission at BALTOPS 2019

By Katherine Mapp, NSWC PCD Public Affairs



TODENDORF, GERMANY – Mine warfare experts from Naval Surface Warfare Center Panama City Division (NSWC PCD) recently supported the annual multinational exercise Baltic Operations (BALTOPS) in the Baltic Sea region.

BALTOPS is designed to improve training for participants, enhance flexibility and interoperability, and demonstrate resolve among allied and partner forces in defending the Baltic Sea region. The exercise involves maritime, ground, and air forces to strengthen combined response capabilities necessary to ensure regional stability.

Andy Stubblefield, NSWC PCD Integrated Mine Countermeasures (MCM) tactics subject matter expert (SME), and other NSWC PCD SMEs provided tactical and technical support to Mine Countermeasures (MCMDIV) 31, Explosive Ordnance Disposal Mobile Unit (EODMU) 8, and Helicopter Sea Combat Squadron (HSC) 28 during the exercise. Overall support included providing MCM planning and evaluation support to the MCMDIV 31 and EODMU 8 staffs, and AN/AES-1 Airborne Laser Mine Detection

System and AN/ASQ-235 Airborne Mine Neutralization System technical support to HSC-28.

According to Stubblefield, participating in training exercises such as BALTOPS is a benefit to both the warfighter and to our command.

“We can provide the warfighter direct access to subject matter experts in one of the more challenging warfare areas,” said Stubblefield. “NSWC PCD SMEs can see their systems in use, gather Fleet feedback, and bring that information and experience back to the lab as input to the systems, applications, and doctrine that NSWC PCD develops and maintains.”

BALTOPS, which began in 1972 and is now in its 47th year, continues to be an excellent opportunity for the North Atlantic Treaty Organization, or NATO, and regional partners to strengthen interoperability through a series of combined tactical maneuvers and scenarios.

Naval Surface Warfare Center volunteers provide school supplies to local students

By Dan Broadstreet
NSWC PCD Public Affairs



PANAMA CITY, Fla. — Paula Oliver, administrative assistant at the Naval Surface Warfare Center Panama City Division (NSWC PCD), gathers with other command volunteers to inventory this year's increase in donations for NSWC PCD's annual Back to School Supply Drive. U.S. Navy photo by Eddie Green

PANAMA CITY, Fla. — Employees at the Naval Surface Warfare Center Panama City Division's (NSWC PCD) Test and Evaluation and Prototype Fabrication Division recently volunteered to collect and provide school supplies for Bay District School's children in need.

According to Paula Oliver, administrative assistant for the division, providing school supplies is crucial, especially in light of the devastation caused to the community by Hurricane Michael, a Category 5 hurricane that made landfall last October.

"Many local students are still living with the cleanup and rebuilding caused by Hurricane Michael," said Oliver. "Damage is still visible, especially the more you travel eastward, so we really want to show support to our local students."

Oliver said this is the fourth year that NSWC PCD volunteers have collected school supplies for local students in the community.

"The first year we began seeking donations, we were asking for five back packs and various supplies to distribute to each of our local beach schools," said Oliver. "What is exciting is that every year donations keep increasing."

Nicole Waters, fabrication and prototype shops project manager at NSWC PCD, said contributions will supply Hutchison Beach, Breakfast Point, Patronis, and West Bay elementary schools backpacks loaded with pencils, crayons, notebooks, and more.

"This year, we collected 113 backpacks and hundreds of supplies that were distributed to the four schools. Last year we donated

44 backpacks and supplies. The outpouring of support from NSWC PCD has been tremendous this year," said Waters.

According to Waters, supporting today's students is more important than ever.

"NSWC PCD wants to let our community know we support them and are here for them, now more than ever as their children face going back to school," said Waters. "Many of these children are starting over in new places at unfamiliar schools and with new friends as we approach the one-year anniversary of Hurricane Michael. We want to lessen the hardships challenging their academic success, especially since we've found we can assist by providing them with proper backpacks and school supplies."

Dr. Ben Schlorholtz, scientist at NSWC PCD and another volunteer involved with the supply drive echoed Oliver's and Waters' sentiments.

"Our volunteers meet at the beginning of the school year to collect and distribute these supplies and we look forward to helping children again next year," said Schlorholtz. "When we deliver the supplies to students, their visible appreciation is readily apparent. These outreach efforts may very well inspire our next generation to also pursue federal civil service careers."



NSWC Panama City laboratory expands capabilities, modernizing functionality

By Katherine Mapp, NSWC PCD Public Affairs



PANAMA CITY, Fla. – A testing manikin with a breathing system is placed into the chamber. Multiple sensors are embedded within the manikin head to simulate a manned system. Sensors are capable of measuring pressure, concentrations of carbon dioxide and oxygen, and temperature used in testing diving and other safety equipment. U.S. Navy photo by Ron Newsome

PANAMA CITY, Fla. – A test facility at Naval Surface Warfare Center Panama City Division (NSWC PCD) recently underwent modernization to expand research and development (R&D) capabilities.

The Hydrospace Laboratory (HSL) uses hyperbaric and hypobaric technologies to simulate conditions without the use of human subjects.

The lab tests various diving and life support equipment by varying pressure, temperature, salinity, and breathing loop controls, while gathering data on inspired carbon dioxide, oxygen control, breathing resistance, and breathing temperature, among other factors.

While the HSL is primarily used to test diving equipment such as helmets, facemasks, rebreathers, and regulators – the lab also tests other equipment used by the fleet, such as batteries, battery canisters, minesweeping tow cables, canisters, seabed detection equipment, and even transport vessels.

Dr. Chris Musto, HSL manager at NSWC PCD, said he and his team have upgraded and automated systems that regulate hyperbaric chamber pressure by using Arduino and Raspberry Python Interpreter, or Pi, systems. Additionally, they have integrated touch-screen controls and easy to use graphics, which can run dive profiles automatically. These include multi-cycle testing of fleet systems and custom pressure testing of diving and life support equipment.

“This automation takes the mundane and variable tasking out of the hands of our engineers and technicians, allowing for a more consistent and less labor-based testing platform,” said Musto. “Modernization will free up engineers to perform more suitable tasking and relieve them of the unnecessary manual operation of supply and relief valves.”

Musto said the HSL is a self-service to full-service facility.

“We are happy to let engineers come in and use the facility for a fee. If those engineers have shown a demonstration of capability, they can use the chambers, data acquisition systems, and other tools in the lab,” said Musto. “If a customer would rather drop off the item at the door and pick it up when testing is complete, we can do that too!”

Musto added that he and his team welcome new work opportunities to demonstrate the updated features to the lab.

“The amount of foot traffic in the laboratory has recently increased because of our expanded functionality,” said Musto. “We often get phone calls or even knocks on the laboratory doors with new work. Word of mouth advertising has gone a long way and our recent upgrades have paid off tremendously.”

According to Musto, the recent modernization of the HSL benefits lab users and warfighters because it demonstrates the ability to perform automated pressure testing rather than the highly variable method of individual human testers.

“The automation of chamber pressures, time at depth, and data collection removes the variability of manual chamber operation. This, in turn, produces a more reliable product to the fleet,” said Musto. “In the near future, we hope to extend this technology to running real-life simulations in our R&D chamber – turning a three-person operation into a single-person task.”

Musto said by allowing subject matter experts to choose available hardware and software, they have developed a state-of-the-art, modular testing platform based on LabVIEW software and National Instruments hardware. Further improvements to sensors and analyzers and highly resolved flow-control has aided in HSL’s ability to collect and process data more quickly, while improving the accuracy of the data.

LCAC 66 disassembled, removed from fleet service

By Ashley Conner
NSWC PCD Public Affairs

PANAMA CITY, Fla. -- After nearly 25 years of mission tests, Landing Craft, Air Cushion (LCAC) 66 will be disassembled and demolished signifying its removal from fleet service.

The primary role of the LCAC is to provide sustained, over the horizon, ship-to-shore movement of Marine Corps personnel and equipment during amphibious assaults. It is also used during humanitarian relief missions to transport personnel.

"LCAC 66 became an in-service special asset assigned to Naval Surface Warfare Center Panama City Division (NSWC PCD) in December 1994," said Mitch Martin, NSWC PCD, lead LCAC operator. "NSWC PCD used it to perform various research, development, and test missions for proof of concept operational scenarios. In addition, it served to introduce and test new or improved equipment designs."

NSWC PCD is the LCAC in-service engineering agent (ISEA) for the majority of hull, mechanical, and electrical systems on LCAC.

"We have teams of mechanical and electrical engineers, support staff, and contractors that provide subject matter expertise, equipment design and testing,



U.S. Navy photos by Eddie Green

depot level repair services, and fly-away maintenance teams to support the LCAC program," said Martin.

LCAC 66 was used in various mine sweeping, detection and lane breaching missions. Certain aspects gleaned from the vehicle's life cycle of testing have led to multiple service-life modernizations, which are currently used in the Navy today.

Disassembly will take place on the ramp at NSWC PCD and will be completed at the end of August. Viable parts including engines and gearboxes will be saved as fleet spares. The aluminum hull will be chopped up and sold for scrap. This will make way for the 2nd generation LCAC.

"LCAC 100 is the newest generation LCAC, and while similar in appearance, it is a totally different craft, redesigned with improved weight carrying capability and improved command and control systems. LCAC 100 is scheduled to arrive at NSWC PCD in 2020," said Martin.





HIGH-GRADE & SUPERVISORY **PROMOTIONS**




Katie Handal
NSWC PCD Quality Director
(00Q)


As Quality Director, Handal will provide oversight and guidance for effective implementation, execution, improvement and maintenance of the NSW PCD Quality Management System (QMS), including maintaining metrics, and project audits.


She will lead developmental efforts of QMS, designing to optimize efficiency, effectiveness, and satisfaction of customer and regulatory requirements and will coordinate with the Departments to assure implementation of QMS throughout operations.

Handal will monitor the execution of critical programs where applicable and will serve as the Command's primary representative on the warfare center's Quality Community of Practice Team.



NSWC PCD Strategic
Campaign Plan FY19-23
Objectives In Action



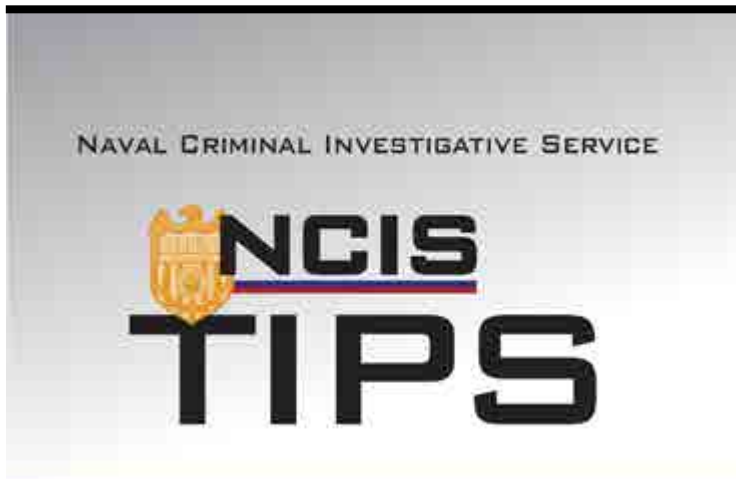
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WiFi 

RDT&E **NMCI**

The 2019-23
Strategic Campaign Plan
aims to equip our workforce with
world class facilities.

For more information, list of locations,
and connection instructions, visit:
<https://wiki.navsea.navy.mil/display/PCDSP/NSWC+PCD+WiFi>

For Technical Support, contact NSW PCD IT Help Desk:
NSWPCD_IT_HELPDESK@navy.mil, (850) 235-5590



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1. Download NCIS Tips from your mobile provider's marketplace.
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3. Select Type of Crime.
4. Complete the form with as much information as possible.
5. Choose to attach a photo or video.
6. Select Submit.
7. Enable push notifications in phone settings to receive alerts.



**For more information about NCIS,
visit our website at:**

www.ncis.navy.mil

Hispanic Heritage Month NSWC PCD



Rosa Arredondo Eby is a graduate of Florida State University with a bachelor's degree in Computer Science and she began her career with Naval Surface Warfare Center Panama City Division (NSWC PCD) over four years ago.

Eby is currently serving as the In-Service Engineer Agent (ISEA) lead for the Airborne Laser Mine Detection System (ALMDS) at NSWC PCD. In this role, she is responsible for ensuring the fleet's needs are met such as training, providing reach back for equipment troubleshooting/maintenance, and mission support.

Eby helped establish the ALMDS ISEA by creating the required standard operations procedures. In addition, Eby has participated in multiple test events for the ALMDS software releases.

Prior to joining NSWC PCD, Eby worked in the private sector for seven years developing prototypes and software applications for the Army, Navy, and Radar Bird Detection. She has also participated as a mentor in the NSWC PCD's mentoring program. Eby is a member of the NSWC PCD Cybersecurity Team.

PANAMA CITY, Fla. – Rosa Eby, In-Service Engineer Agent lead at Naval Surface Warfare Center Panama City Division, tests the Airborne Laser Mine Detection System (ALMDS) algorithms. ALMDS detects, classifies, and localizes near-surface, moored sea mines, utilizing Streak Tube Imaging Light Detection and Ranging. U.S. Navy photo by Eddie Green

Eby enjoys working with the ALMDS team and providing the fleet with the timely support they need.

"Always do what's right. We are not to burden the fleet with our systems, but to make their lives easier," said Eby.



U of F Applied Research and Engineering Visits NSWC

PANAMA CITY, Fla. - A team from the University of Florida Applied Research and Engineering visited Naval Surface Warfare Center Panama City Division Aug. 16 to discuss collaboration opportunities in engineering. U.S. Navy photo by Susan H. Lawson

RESEARCH COMMONS

Digital Library Portal

<https://aimtc2.nuwc.navy.mil/stlibrary/>



By NUWC Newport Technical Library

Librarians get requests every day for journal articles and nothing is more gratifying than being able to instantly locate it and forward it to the patron, sometimes in a matter of minutes.

If we can't get it quickly, it's for any number of reasons: we don't have the subscription, or the subscription that we do have doesn't include the date that it was published; it's a dissertation or a thesis; it's a standard that must be purchased, or it's a book that's not on the shelf. Whenever it's an item that's beyond the scope of our collection, we turn to Interlibrary Loan for help.

Interlibrary loan (or ILL) is a system that allows us to borrow materials from another library. It bridges the gap in library collections and benefits everybody. Research Commons users can place a request by either emailing or calling us, or using [TDNet](#) for those who have an Open Athens account. A webinar that features all the ways to request a document is available [here](#).

Even though thousands of libraries take part in ILL, the amount of time to get an item can vary because it all depends on how quickly another library responds. We submit the request and hope for a quick turnaround, and for most documents it takes just a few hours or less to fill. Requests for obscure items can take longer, even weeks, to locate. Once we get an article, we immediately forward it via email to the person who needed it.

Another way to request documents on demand is [ReprintsDesk](#). With a [ReprintsDesk](#) account, you'll be able to search records from databases and even request what you need directly from your results. Just as ILL requests go through TDNet, these also go to Research Commons staff to fulfill.

Books are also handled through ILL, but for efficiency, those requests need to be done through your own warfare center's library. If your command doesn't have a library, you can use a local academic library or even a public library, both of which use ILL also. The time it takes for books to be shipped makes us appreciate the speed with which electronic documents can be delivered.

Back to those "library laws" that emphasize use, access and efficiency: They help librarians stay focused on the user when thinking about how to deliver services and provide the best available resources as quickly as possible. We encourage users at participating commands to [reach out](#) for any assistance you may need using ILL or any of our Research Commons tools.

ACCESS:

If you already have an AIMTC account and Research Commons access, you can access the site at this link:

<https://aimtc2.nuwc.navy.mil/stlibrary>

To request access, follow the instructions below:

New AIMTC Users go to:

<https://aimtc.nuwc.navy.mil/aimtcmangement/request.asp>.

Fill in the information fields, then follow steps 1-3 below.

Existing AIMTC Users go to:

<https://aimtc.nuwc.navy.mil>.

Select "Click Here to Enter AIMTC".

Click on the "My Profile" link in the top menu of the AIMTC main page.

Confirm and correct the information in all of the fields, then follow steps 1-3 below.

1. In the list of resources, find "Research Commons," expand the selection, and then check the box next to "Research Commons."
2. At the bottom of the page, check the box next to "I certify that I have read the User Responsibilities and understand."
3. Click the "Send" button on the bottom of the page. Within 24-48 hours you will receive your login information along with a separate Research Commons Welcome email which will include more information about how to access subscriptions.

★ MILITARY AWARDS ★



**Aviation Structural Mechanic First Class
Christopher D. Robbins**

(Silver Star in lieu of the Sixth Award)

Professional achievement as the Unmanned Aerial Systems (UAS) Program Administrator at Naval Surface Warfare Center Panama City Division, from March 2019 to June 2019. Petty Officer Robbins led the charge in the research, collaboration, and acquisition of a dedicated training UAS that enabled ten civilians and three military personnel to complete UAS operator training. Additionally, his efforts were critical in the command receiving unprecedented, future revenue in the form of counter-UAS testing operations. This fostered and furthered collaboration across other warfare centers and within our four codes. Petty Officer Robbins' exceptional professionalism, unrelenting perseverance, and loyal devotion to duty reflected credit upon himself and were in keeping with the highest traditions of the United States Naval service.



Navy Diver First Class Blake M. Flohre
(Gold Star In Lieu Of Fourth Award)

Professional achievement in the superior performance of his duties while serving as a first class diver and Seal Delivery Vehicle (SDV) test pilot under instruction at Naval Surface Warfare Center Panama City Division, from April 2019 to June 2019. Petty Officer Flohre expertly displayed his skill as an operator of a high valued manned submersible with design parameters altered from the original specifications in an unforgiving environment during three major SDV research profiles including 16 SDV dives and 43 hours of incident-free bottom time. His exemplary performance enabled the collection of critical data necessary to enhance naval special warfare tactics, techniques, and procedures. Petty Officer Flohre's exceptional ability and loyal devotion to duty reflected credit upon himself and upheld the highest traditions of the United States Naval service.



Logistics Specialist First Class Michael R. Semler

Meritorious Service while serving as Material Control Leading Petty Officer at Naval Surface Warfare Center Panama City Division, from August 2016 to August 2019. Petty Officer Semler led 27 personnel through the procurement of 3,652 supply requisitions contributing to 530 mishap-free flight-hours with 100% accountability in support of airborne mine countermeasures research, development, testing, and evaluation. Additionally, he led the command to a 100% pass rate as the command fitness leader, maintaining the mission readiness of sailors, and the command. Petty Officer Semler's distinctive accomplishments, unrelenting perseverance, and devotion to duty reflected credit upon himself and were in keeping with the highest traditions of the United States Naval Service.

People of

PANAMA CITY

with Vince Tomasi



U.S. Navy photo by Katherine Mapp

My name is Vince and I am a Contracting Officer in the Small Purchase Branch at NSWC Panama City Division. I have worked at the Command for a total of five years. In my role, I purchase equipment, supplies and services to support the Warfighter while watching out for the taxpayers' dollars.

What I like most about my job is the fantastic people I work with. I also enjoy the fast pace and researching different items required for the mission. It keeps the job interesting.

Something most people don't know about me is that I grew up as one of nine children in Marquette, Michigan, a small town on the south side of Lake Superior. My brothers and I assisted my parents in running a small scuba shop, where we learned the trade every day after school, and eventually managed all aspects of the business.

I am an Air Force veteran of nine years and served as a Jet Engine Master Technician. I began my career on the flight line supporting the aircraft on alert and daily sorties flown. Other career duties included serving as Non-Commissioned Officer in Charge (NCOIC) of the engine inspection sections for B52 and KC135 aircraft, a Field Detachment Jet Engine Instructor, and the NCOIC for the jet engine test cell in support of Desert Storm.

My wife and two sons have also served in different branches of the military including Air Force, Army, and Navy.

As a veteran, a spouse of a veteran, a father of active duty and veteran children, coupled with growing up in a scuba diving family business, it is easy to understand the importance of rapid, quality support to all the units here at NSWC Panama City.

PROTOCOL

Have a seat...but not there: Rules for precedence, seating, and dining

By Susan H. Lawson
NSWC PCD Public Affairs

PANAMA CITY, Fla. — Did you know there is an order to who goes first, who goes last, and what order people are seated? Nothing speaks louder than showing respect for position and rank. Following the internationally recognized precedence system will ensure order at functions and create a memorable event.

The United States Department of Defense has established a formal Order of Precedence that determines the order of precedence for official visit activities, assignment of government quarters and seating arrangements for official functions. A shared ride, whether a hired car or personal vehicle has a seating protocol. In a personal car, the place of honor is directly to the right of the driver. This seat is given to highest-ranking person. The place of honor in a taxi or chauffeured vehicle is the rear passenger seat — the seat closest to the curb when getting out of the car. Of course, in all instances, consideration should be given to an altered seating arrangement for any honored guest who may have difficulty sitting or getting up from their seat.

When seating arrangements are made for a conference room or dining table, the position of honor is to the right of the host.



U.S. Navy photo by Haley Walker

When taking your seat at the table approach the right side of the chair and enter from your left side. At the end of the meal, push your chair back from the table and exit from the right side, then push the chair back up to the table. While dining, guests are to order first whereas the host is to begin dining first.

Napkins should not be picked up until the host does so. When temporarily leaving your seat, place the napkin in your chair. At the end of the meal, place the napkin on the table. Refrain from re-folding the napkin.

The bread plate is located on your left side and your drink is on the right. With silverware, work your way in from the outside through each course.

As a common courtesy, cell phones are to be kept off the table. If a phone call is necessary, excuse yourself from the table and take the call elsewhere.

We hope that these tips are helpful for any event you may attend or host. If you have questions about protocol services, contact the NSWC PCD Public Affairs Office's Protocol Officer at (850) 230-7400.

FIAR Financial Improvement and Audit Readiness **KNOW YOUR BUSINESS** **CONTROL YOUR FUTURE**

Every step of the way, people every day throughout the U.S. Navy are involved in the data that is produced, entered into systems, reported on, and used to make the decisions that enable the U.S. Navy to achieve its mission.



Meet the new FIAR Team!

Recognizing the need to meet the Navy's challenge of obtaining improved financial efficiency, leadership increased the size of the Financial Improvement and Audit Remediation (FIAR) Team. The FIAR Team assists the command in establishing and maintaining improved financial processes and supports the Command's efforts related to the Department of the Navy's work towards achieving a clean audit opinion. Pictured from left to right are: Roy Tweedy, Michael Wright, Ashley Risner, Vu Cao, Samantha Snellen, and Linda Magee.



Civilian LENGTH OF SERVICE

35

Chuong Nhu Pham
Ira Harkness

30

Neil Matson
Pierre Ware
Ronald Cook
Stephen Smith
Todd Doucett

20

Richard Tatum
Timothy Currie

15

Jena Rhea
Joseph Perry
Timothy Bucci

10

Daniel Coats
Derek Kolacinski
Jeannie Millaway
Joe Renella
Jonathan Millhollon
Ozgur Kose
Pamela Jean Fuhrman
Rebecca Boxerman
Richard Allred
Steen Jensen
Theresa Hunt

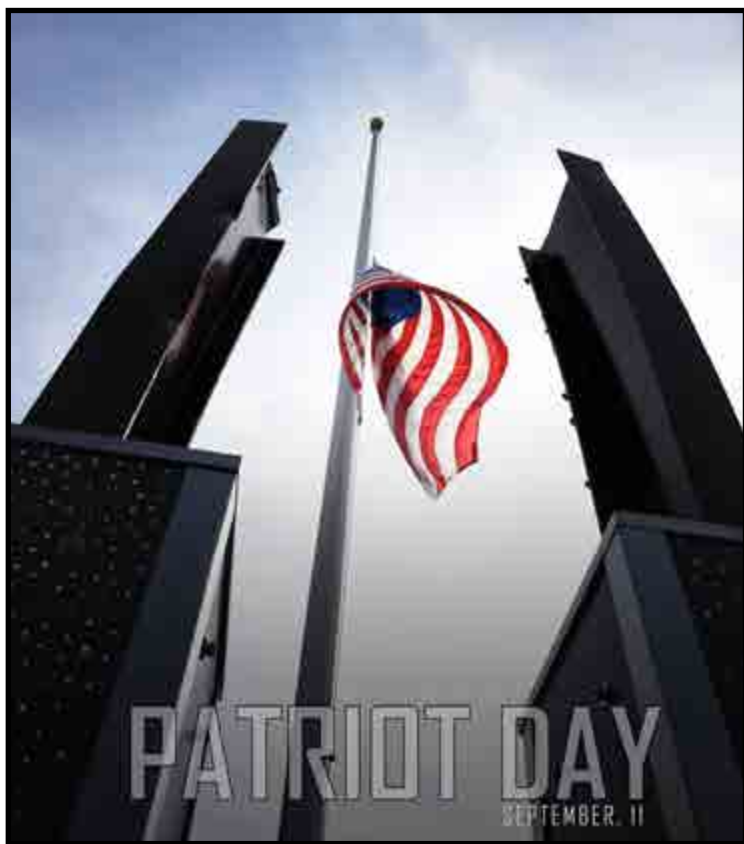
05

Christopher Harrington
Dane Maglich
Gordon Griffith
Jason Newton
Jesse Aucoin
Justin Grimes
Michael Rosenthal
Rommel Mandapat
Shawn Hobbs

UPCOMING AWARDS

SEPTEMBER 2019

Defense Standardization Program Outstanding Achievement Awards.....	03 September
CNO/SECNAV Safety Excellence Awards.....	09 September
Black Engineer of the Year Awards (BEYA) Modern-Day Technology Leaders	30 September
BEYA Science Spectrum Trailblazer.....	30 September
Society for Industrial and Applied Mathematics (Polya/DiPrima/Reid Prizes).....	30 September



The American Flag is flown at half-staff between two steel beams at the Northwest Ohio 9/11 Memorial, located on the grounds of the Ohio National Guard's 180th Fighter Wing. Uncovered from the rubble of the World Trade Centers following the attacks of Sept. 11, 2001, these beams were donated to the memorial and positioned as a visual representation the World Trade Centers. Patriot Day occurs annually on September 11 in memory of all who lost their lives as a result of the attacks on Sept. 11, 2001. The flag of the United States is flown at half-staff at the White House and on all U.S. government buildings and establishments throughout the world. Additionally, a moment of silence is observed to correspond with the attacks, beginning at 8:46 a.m. the time the first plane, American Airlines Flight 11, struck the North Tower of the World Trade Center on September 11, 2001. (Air National Guard Photoillustration by Senior Master Sgt. Beth Holliker. Original photo by Staff Sgt. John Wilkes.)



NSWC PCD DAWIA

**Defense Acquisition Workforce
Improvement Act**

Monthly DAWIA Achievements: individuals who have completed their DAWIA Certification requirements in the last reporting period.

Mike Monroe, DAWIA Program Manager
850-230-7913

Jordan Bolduc,
Greg Boone,
Charles Brooks Jr
Darshan Bryner
Franklin Castle
Sonoell Clark
Sascha Dastgerdi
Ridge Damren
Anthony Davis
Ludger Denis
Jade Douglas
Jeffery Eichler
Jonas Hudson
Richard Hurst
Dannielle Hutchinson
Bryan Johnson
Akshita Kapasiawala

Jeffrey Kleinbauer
Kenneth Longstreet
Tory Lynch
David Malphurs
Lyndsey Mandelare
Robert Mooneyham
John Robideau
Michael Rosenthal
Jason Schrieffer
Jamaal Stanley
Nicolas Torres
Willis Walker
Jesse Walton
Jared Wampler
Denton Woods
Jacquelyn Zbranek

**Congrats to our NSWC PCD employees
for completing their DAWIA
requirements this month.**

SAFETY

Help Prevent Slips, Trips and Falls

Prepared by Patrick Beacom,
Safety and Occupational Health Specialist

Do you ever get distracted by your cellphone when walking? Is your workspace cluttered and messy? Do you barge out of your workstation without looking to see if a coworker is passing? If you answered “yes” to any of these questions, you’re at risk for slips, trips and falls.

Slips, trips and falls on the same level can be serious workplace risks. Nearly 135,000 nonfatal fall-on-same-level incidents occurred in private industry, in addition to 111 all-industry fatalities.

To help prevent these incidents, it is important to understand each danger. Slips often result from wet or oily floors and loose rugs or mats. Common tripping hazards include clutter in walkways, poor lighting, open drawers and uneven surfaces.

To avoid slips, trips and falls, focus on three main prevention methods:

1. Housekeeping:

- Clean up spills as soon as they occur
- Mark spills with warning signs
- Mop or sweep up debris from floors
- Remove obstacles from walkways
- Secure mats and carpets with tape to ensure they remain flat
- Keep your office tidy
- Close cabinets or drawers when not in use
- Keep workplaces and walkways well-lit
- Replace burned-out lightbulbs and faulty switches

2. Flooring: Walking surfaces can be made safer by replacing unsafe floors, installing mats or adding abrasive strips.



Workforce Development



- **SEPT 4** Microsoft Project 2016 Advanced
- **SEPT 9** Geometric Dimensioning and Tolerancing
- **SEPT 9** CCNA 1
- **SEPT 12** How to be a Successful Leader
- **SEPT 16** CCNA 2
- **SEPT 23** CCNA Security
- **SEPT 23** MATLAB Fundamentals, Programming Techniques, with Object-Oriented Design

To register for classes that are open, visit:

<http://navsea.navy.deps.mil/wc/supernma/Training/SitePages/PCDU.aspx>

For more information,
visit the Training page on iNAVSEA!
[PCD-U Onsite Training](#) or [PCD-U Peer Course Training](#)

- ### 3. Proper footwear:
- In workplaces with oily or wet floors, or where workers spend a lot of time outdoors, proper footwear is important to prevent slipping and tripping. Because of the multiple hazardous conditions that exist – as well as a large range of safety footwear – hazard assessments should be performed to determine the best shoe for any particular job.

To reduce the risks of slips, trips and falls at work:

- Always use handrails when walking up or down stairs. If you need to carry a load, take the elevator or ask for assistance.
- Open containers can result in spilled liquids. Put a lid on your cup to prevent spills and slips
- Don't walk distracted. Put your phone away and watch where you are going
- Pay attention when walking, and do not rush
- Walk with feet pointed slightly outward
- Make wide turns at corners
- Keep flooring in good condition
- Have a flashlight handy in case you enter a room with little or no lighting
- Ensure views are not obstructed
- Report slip, trip and fall hazards to your supervisor



**Naval Surface Warfare Center
Panama City Division**
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