ISSUE #2 2024

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SHIPYARD LOG

INNOVATING TODAY SHAPING TOMORROW

How PHNSY & IMF is Modernizing the Maintenance Industry

Commander's Corner

Capt. Richard Jones, USN
48th Commander
Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility

Vol. 78, Issue #2

Innovating Today, Shaping Tomorrow

Aloha Shipyard `Ohana,

Welcome back to another edition of the Shipyard Log. Our theme for this edition is "Innovating Today, Shaping Tomorrow," emphasizing the pivotal role each of you plays in driving positive change within our shipyard and the Navy as a whole.

Embracing new technologies is essential for staying ahead in an ever-evolving maritime maintenance landscape. This issue features augmented reality, STEM, 3D printing, and the people who make these ideas come to fruition.

People outside the shipyard may only picture us as an industrial environment – welding, cranes, wrench-turning, pipefitting – but we all know we're so much more than that. Engineering, supply, business, and personnel support are essential to operations, as well. The common denominator to all of our shops and codes is that there's always room for new ideas and improvements in technology.

That's where Code 100TO.3 Innovation & Tech Insertion comes in. Their mission is to act as the hub for innovation while connecting people, removing barriers, and growing ideas in support of ship maintenance and national security. 100TO.3 is there to help each and every shipyard employee bring their ideas to life. They have the means to figure out funding, find sources for testing products, connect with other shipyards to find best practices, and even 3D print prototypes – plus so much more.

Our Community of Practice Leads are out in the shipyard, as well, to help our employees with improving processes and encouraging innovation.

But innovation isn't just about adopting the latest tools—it's also about nurturing the next generation of problem-solvers. That's why we're committed to investing in STEM education and cultivating a culture of lifelong learning in our community at STEM events. By inspiring curiosity and fostering creativity among our youth, we're inspiring our next generations to follow in our footsteps in making their mark on the future of naval technology.

None of this is possible without the dedication and ingenuity of our people. While technology may provide the tools, it's our talented team members who bring them to life with their ideas and expertise. Whether it's proposing a novel solution to a complex problem or spearheading a transformative initiative, each of you has the power to shape the future of our shipyard and the Navy as a whole. As we continue to chart our course toward our Culture of Excellence, let us remember that transformation is not a destination but a journey—one that requires constant innovation, collaboration, and commitment. Together, we have the opportunity to redefine what's possible and leave a lasting legacy for generations to come.

Thank you for your hard work, dedication, and unwavering commitment to excellence. Together, we will continue to innovate today and shape tomorrow.

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SHIPYARD LOG: This DoD publication is authorized for members of the PHNSY & IMF. Contents of the Shipyard Log are not necessarily the official views of, or endorsed by, the U.S. government, DoD, or PHNSY & IMF. ISSN 1073-8258.

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Photo by: Justice Vannatta
Photo illustration by: Dave Amodo and Justice Vannatta

Team Members of
USS Wayne E. Meyer (DDG 108)

HRMC Completes Wayne E. Meyer Maintenance Ahead of Schedule

Article by Lt. Cmdr. Aaron Santiago PHNSY & IMF

Members of the Hawaii Regional Maintenance Center (HRMC) completed a scheduled maintenance availability for Arleigh Burke-class guided-missile destroyer USS Wayne E. Meyer (DDG 108) eight days ahead of schedule last month, allowing the ship to return to service early.

After a seven-month deployment with Carrier Strike Group 11, the ship had returned to Pearl Harbor for its regularly scheduled Selected Restricted Availability (SRA) maintenance period, originally scheduled to last five full months.

Pearl Harbor Naval Shipyard & Intermediate Maintenance Facility (PHNSY & IMF) Project Manager Ryan Rapisura, Deputy Project Manager Kiley Odagiri, and Project Officer Lt. Cmdr. Aaron Santiago led the project.

"From planning to executing Wayne E. Meyer's availability, there was one thing in common that kept everything moving – communication," said Rapisura. "With the project team communicating information to each other, it keeps everyone tracking for success and keeping the ships fit to fight."

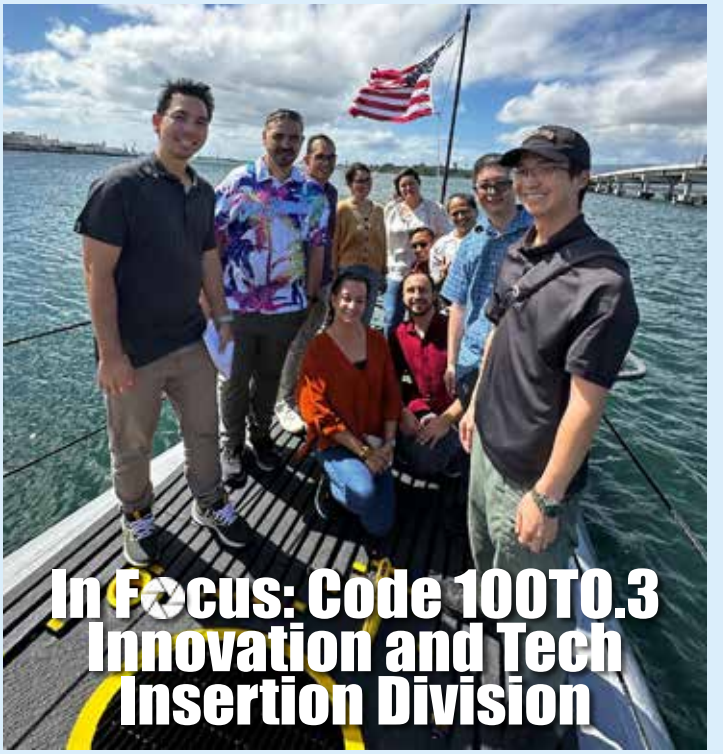
As part of the availability, the project team overhauled and replaced the ship's slewing arm davit; completed preservation of the flight deck and associated Recovery, Assist, Secure, and Traverse troughs; and provided vital repairs to the ship's flight deck safety nets. The ship also received a major communications systems installation to upgrade its communication capabilities.

"The fact that Wayne E. Meyer was able to complete this task ahead of schedule is a testament to the professionalism and collaboration of the maintenance community and the crew," said Cmdr. Ronald Fairbanks, Wayne E. Meyer commanding officer. "Successfully completing all requirements in a compressed timeline overlapping the holiday season is truly an impressive feat and the mark of one powerful legacy."

Completing the project eight days ahead of schedule, in a coordinated team effort to set Wayne E. Meyer back to sail, adds to the track record for the HRMC team in completing availabilities early. Naval Surface Group Middle Pacific, Commander, Naval Surface Force U.S. Pacific Fleet; Naval Information Warfare Center Pacific; Naval Surface Warfare Center Philadelphia; Fleet Maintenance Repair; and private industry partner Pacific Shipyard International (PSI) were all part of the process.

"The work the team completed was a true testament to how much work can be accomplished when everyone is working together with a common goal," said Capt. Luis Socias, deputy commander, PHNSY & IMF.

Commander, U.S. Pacific Forces Adm. Samuel Paparo commended the team in a Navy message.
"Bravo Zulu to the USS Wayne E. Meyer (DDD 108), Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility (PHNSY), and Pacific Shipyards Inc. (PSI)," said Paparo. "This accomplishment is a direct result of the combined teams' engaged leadership, outstanding teamwork, and professionalism, and would not have been possible without a strong and effective maintenance team."



In Focus: Code 100TO.3 Innovation and Tech Insertion Division

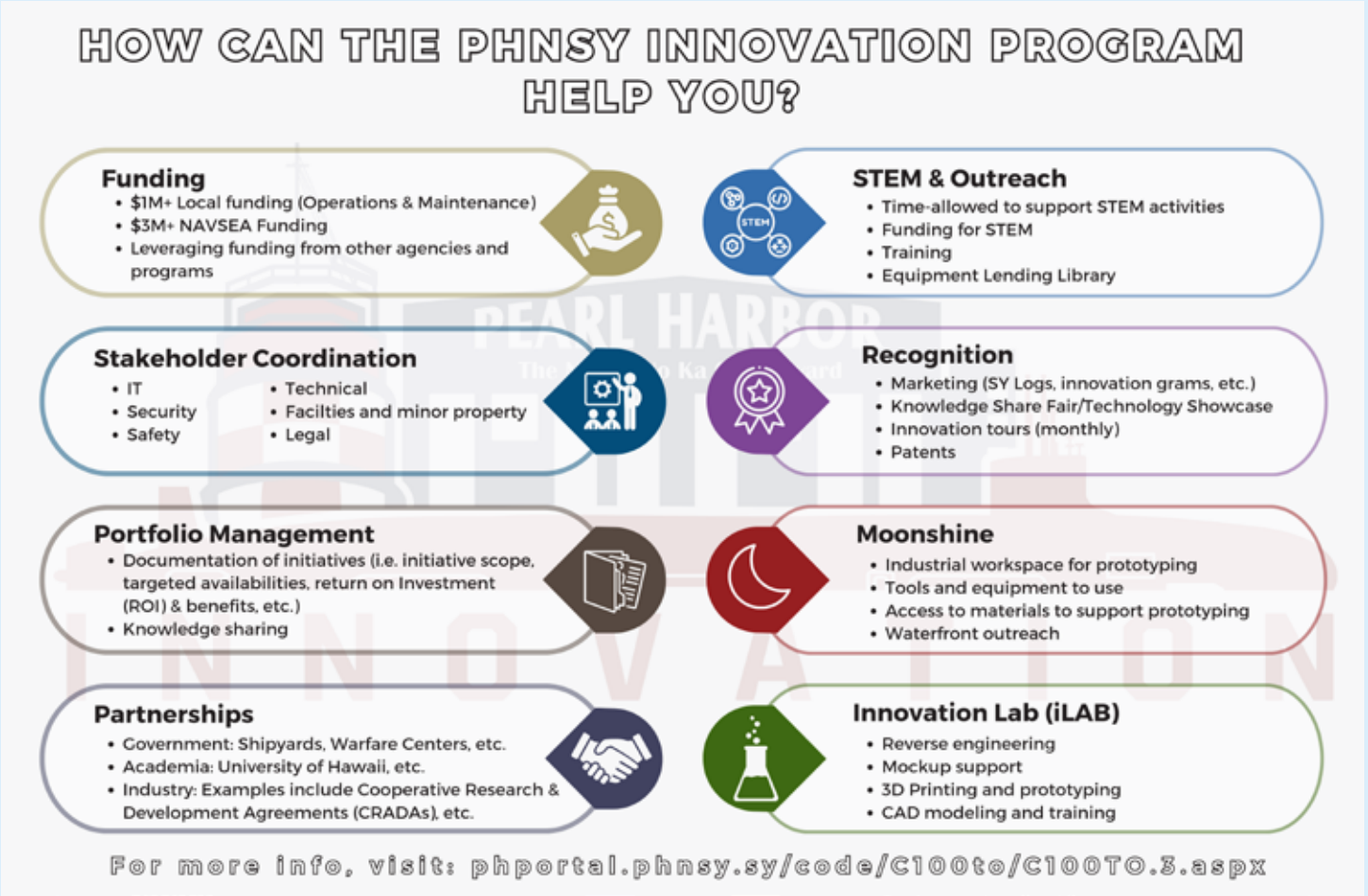
Story by John Kaohelaulii
Code 100TO.31 Innovation/iLAB Analyst

Our mission at Code 100TO.3 Innovation and Tech Insertion Division is to facilitate and encourage innovation at Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility. We aim to accomplish our mission in a variety of ways. This includes:

1. Assisting shops to secure funding for innovation.
2. Helping customers navigate and coordinate the IT/security/safety/technical/legal concerns frequently surrounding innovation efforts.
3. Portfolio management involves documenting initiatives and knowledge sharing.
4. Building partnerships with government, academia, and industry.
5. Supporting STEM (science, technology, engineering, and math) outreach at local schools through funding, training, and time-allowed for activities.
6. Recognizing innovation initiatives through marketing efforts like Shipyard Log articles, monthly innovation tours, hosting an annual Knowledge Share Fair /Technology Showcase event.
7. Engaging waterfront personnel for mechanic driven initiatives through Moonshine outreach events.
8. Assisting with idea development, prototype creation, and computer-aided design (CAD) education through the iLAB.

For more information, reach out at PHNSY Home>C100TO>C100TO.3.

Standing top row: Code 100TO.32 iLAB Engineer Harold Shimono, Code 100TO.32 Innovation/iLAB Analyst John Kaohelaulii, Code 100TO.32 Branch Head/Tech Insertion Manager Duane Domingo, Code 100TO.31 Innovation Branch Head Jayme Shimomura, Code 100TO.3 Division Head Shayla Deitch, Code 100TO.31 Analyst Tammy Monje, Code 100TO.32 Moonshine Program Manager Gerilyn Cambonga, Code 100TO.31 Analyst Asa Fujiwara and Code 100TO.32 iLAB Engineer Ryan Saito.
Bottom row: Code 100TO.32 Office of Research and Technology Applications Representative Tinamarie Cura and Code 100TO.31 Analyst Nick Bove.
Not pictured: Code 100TO.32 iLAB Engineer Vance Hashimoto.



Transforming the Way We work with Augmented Reality

Story by John Kaohelaulii, Code 100TO.31 Innovation/iLAB Analyst

In the late 90s, the International Business Machines Corporation (IBM) supercomputer, Deep Blue, made history when it beat chess grand master Garry Kasparov. The event was considered a pivotal moment—the day that computers caught up to the human intellect. Now, a new iPhone has 10 times the processing power than Deep Blue.

In life outside of the shipyard, the gap between science fiction and reality has narrowed to the point of overlap. Moreover, in this age of global tensions and uncertainty, it is imperative that Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility (PHNSY & IMF) find ways to integrate new technology into the shipyard.

Recognizing an opportunity to innovate and improve an existing work process, Jon Sagadraca, Code 950 Electrical Community of Practice Lead (eCOP), —in a joint effort with Code 109 Information Technology and Cyber Security (ITACS) Office, Code 100TO Transformation Office, and Naval Underwater Warfare Center (NUWC) Keyport—spearheaded PHNSY & IMF's first endeavor into the world of augmented reality (A/R).

A/R headsets work by overlaying digital information onto the user's field of view in real-time. They contain sensors, cameras and a display that processes the surroundings in real time. Utilizing advanced software and Quick Response Codes or QR Codes, these headsets identify objects and locations, then project relevant images and information onto the lenses, creating an interactive "augmented" environment for the user.

Currently, Code 950 Electrical mechanics are using Microsoft HoloLens A/R headsets to perform hydrostatic tank testing. Users are able to see the work step they are performing in their field of view while keeping both hands unoccupied. When users complete a step, they virtually "press" a digital button to 'X' the step and then the glasses display the next step. Other helpful images like valve information or direction arrows for the location of a switch intelligently appear/disappear when it becomes relevant to the step being worked.

Looking forward, A/R can be a game-changer not only for Code 950 but also for various other departments. Once NUWC approves the system for nuclear processes at their facility, the plan is to extend A/R's benefits to Nuclear Power Control Module (PCM) work and potentially other areas across the shipyard.

Implementing A/R in Code 950 does come with its own challenges.

"The building and programming environment at NUWC was not approved for certain classifications so we had to change the original plan and have the HoloLens work with a non-classified process," said Sagadraca. "The second challenge was getting the workforce accustomed to this new tool. Even with support from managers, supervisors and mechanics, there was a learning curve and fear of technology that users had to adapt to."

Michael Wolfe, from Code 109, provides some perspective from the IT department.

"There are a lot of security concerns when dealing with new technology, getting the HoloLens accredited in our system is probably our biggest obstacle right now," said Wolfe.

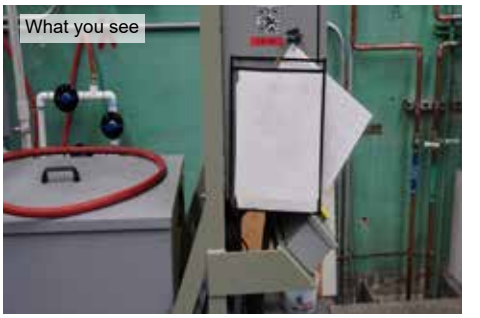
For anyone interested in incorporating A/R into their processes, Sagadraca has some valuable advice that emerged from Code 950's experience.

"Know the battery life and manufacturer's recommended usage time and be sure that the A/R device meets your project's needs," said Sagadraca.

Turning a wrench has not changed much and will not change much in the near future. However, the processes that surround it, like workforce development, inventory tracking, data input, etc. could benefit from reexamination to see if technology can enhance productivity.

Change is not easy. It is often disruptive and frustrating because we get comfortable with the way we work, with the way we have always done things. Nevertheless, in order to keep up with the outside world we need to challenge the old way, embrace innovation where it makes sense, and collaborate with each other.

So take the first step to transform a work process in your area of responsibility and reach out to the Innovation Program Manager, Shayla Deitch, for additional information and guidance with bringing augmented reality (or virtual/mixed reality) to your shop or code. Let us continue to grow our capabilities at PHNSY & IMF to expand the Navy's competitive advantage and forever keep them, "Fit to Fight."



Photos by Justice Vannatta

PHNSY'S iLAB: COLLABORATE, DESIGN & PROTOTYPE

Story by John Kaohelaulii, 100TO.31 Innovation/iLAB Analyst

Innovation thrives when people with a diverse set of skills can come together to solve difficult challenges. It is Code 100TO Transformation Office's goal for the iLAB to be the hub for innovation at Pearl Harbor Naval Shipyard & Intermediate Maintenance facility (PHNSY & IMF) by providing a space for collaboration.

There are many people in the shipyard with great ideas on how to do their work better, but they often don't get the chance to really grow them into something further than a concept because it involves more than just their own trade. The iLAB aims to change this pattern and help to fill any gaps in resources, connections, and/or experience to help improve PHNSY & IMF's ability to keep them, "Fit to Fight."

Vance Hashimoto, Code 100TO iLAB Manager, speaks to the goal of the facility stating, "The iLab will drive an innovative culture across the corporation by changing the mindset of our shipyard team from 'no, we can't do that' to 'we can do better, and let's try it. By knowing they have easy access to iLAB resources to test new ideas and create prototypes in an environment where it's safe to fail."

The project to transform the iLab from its modest 525 sq. ft. beginning into the present 6,750 sq. ft. space started in 2019. The additional space allows the iLAB to operate using a multi-angled approach to facilitate innovation.

The first is to provide dedicated areas for collaboration. There are workspaces and a conference room where anyone from the shipyard can meet with a team to brainstorm and develop good ideas into products or services that benefit the waterfront community.

Second, the iLAB houses computer stations equipped with computer-aided design (CAD) software, like Solid Edge and Inventor, for anyone to use and start transforming a concept into reality.

If you are not familiar with CAD software and equipment, iLAB has a dedicated team of innovation experts who are available to provide support in various areas such as software training, product design, and connecting people to subject matter experts within the shipyard.

Once an idea has turned into a design, iLAB also has 3D printers to produce rapid prototypes and minimize the gap between blueprint and fabrication.

Finally, there is Moonshine, an area that allows workers to access tools to create, test and refine a prototype. Code 100TO's Moonshine Program Manager is Gerilyn Cambonga.

"My job is to harness the creativity of our deck plate mechanics and remove the barriers that hinder performance improvement," said Cambonga. "iLAB provides a safe-to-fail environment that fosters the collaboration of systems experts while problem solving which then instills pride and ownership in their work."

Once you are satisfied with your prototype, a consultation will determine if your product should be fabricated by Special Tooling, made in-house by the production shop, or outsourced.

If anyone is interested in seeing his or her ideas come to life, the first step is to submit an iLAB request ticket. Each request will be evaluated to determine if it can be supported through the iLAB or if there is a more appropriate vehicle outside of the scope of the iLAB. Regardless of the evaluation determination, iLAB will respond with information on how to proceed.

Stop by to see how you can transform your ideas into actions that will advance the capabilities of our shipyard.

MakerBot Replicator Z18, one of the different additive manufacturing printers that is located in the iLAB. Capable of printing PLA Filament with a build volume of 30"L X 30.5"W X 45.7"H.

3D printed model of a 1" HP valve and bonnet assembly for mockup training requested by C2320 & C920.

Pictured: Code 100TO.32 Moonshine Program Manager Gerilyn Cambonga, Code 100TO.32 Office of Research and Technology Application Representative Tinamarie Cura, Code 100TO.32 iLAB Engineer Harold Shimono, Code 100TO.32 Branch Head/Tech Insertion Manager Duane Domingo, Code 100TO.31 iLAB Analyst John Kaohelaulii, Code 100TO.32 iLAB Engineer Ryan Saito, and Code 100TO.32 iLAB Engineer Vance Hashimoto.

Photos by Justice Vannatta

Shipyard Dive Locker Uses Chamber to Treat Hearing Loss

Story by
PHNSY & IMF Public Affairs

Divers at Pearl Harbor Naval Shipyard & Intermediate Maintenance Facility (PHNSY & IMF) recently used hyperbaric oxygen therapy (HBOT) to treat a Navy spouse who had experienced sudden hearing loss. "One second I was enjoying my morning coffee and the next I had unbearable tinnitus and profound deafness in my left ear. It was as if someone just flipped a switch," said Allyssa Bernhardt, spouse of Lt. Dave Bernhardt, explosive ordnance disposal officer, Mobile Diving and Salvage Unit (MDSU) 1.

Sudden sensorineural hearing loss (SSHL) is described as an unexplained rapid loss of hearing, in either one or both ears that can happen instantaneously or take a few days, according to the National Institute on Deafness and Other Communication Disorders. People are advised to consider any sudden deafness symptoms as a medical emergency and to visit a doctor immediately. Which is what the Bernhardts did.

Their medical journey took them through urgent care, the emergency room, and the Ear Nose and Throat (ENT) clinic with Defense Health Agency (DHA) Hawaii Market. While at the ENT clinic, Allyssa received the diagnosis of SSHL. She received treatment but the deafness, tinnitus and lack of sensation in her ear remained the same, she said.

As a Navy diver, her husband knew that hyperbaric oxygen therapy (HBOT) had been used to treat similar conditions. He reached out to MDSU-1 Undersea Medical Officer (UMO) Lt. Derek Scott and asked about the possibility of using the treatment on his spouse. Scott evaluated Allyssa, contacted the Navy Bureau of Medicine and Surgery UMO for authorization, and then called the Dive Locker where the Shipyard hyperbaric chamber team could administer treatment. Within 12 hours she was able to begin HBOT.

The first session showed immediate signs of improvement, according to Hospital Corpsman 1st Class Robert Reynolds, PHNSY & IMF deep sea diving medical technician. He described her face as filled with joy as she experienced a bit of reprieve from the constant tinnitus. She went on to complete 30 sessions, each one hour and 45 minutes at an average depth of 45 feet, and breathing 100 percent oxygen – five days at a time. "I have regained what the audiologist calls a significant amount of hearing," said Allyssa.

While Allyssa still experiences tinnitus, she considers the treatment a success. "I went from being 100% deaf in my left ear to now having just enough hearing as to make me eligible to be fitted for a hearing aid," she said.

Allyssa expressed her appreciation for the help she got along the way. "The treatment from the divers and UMOs was top notch," she said. "I felt as though every diver at the PHNSY Dive Locker genuinely wanted to see me recover my hearing and experience a reduction in my tinnitus. They were all very professional and caring individuals; they exceeded every expectation I had when I began my HBOT."

Navy Diver 1st Class Frank Ormonde, the hyperbaric oxygen chamber inside tender at PHNSY & IMF's Dive Locker, monitors patient Allyssa Bernhardt as she is treated in the chamber for sudden hearing loss.

Above: Navy Diver 1st Class Paul Orbegoso, the hyperbaric oxygen chamber supervisor at PHNSY & IMF's Dive Locker, monitors the patient.

Below: Navy Diver 1st Class Frank Ormonde, the hyperbaric oxygen chamber inside tender at PHNSY & IMF's Dive Locker, is pictured with patient Allyssa Bernhardt.

Photos by Justice Vannatta

CoP's Are Here to Help

Story by John Kaohelaulii, 100TO.31 Innovation/iLAB Analyst

Whether it is bending a wrench or creating a fillable portable document format (PDF) out of a doc file, our workforce is great at figuring out new and better ways to complete their job. However, we work in gangs, different shops and codes on different work shifts, and often, hard-earned innovation does not get the opportunity to come to fruition.

In 2009, Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility (PHNSY & IMF) leadership recognized the need to break down the silos we build around ourselves and established the Communities of Practice (CoPs). The CoPs were created to address issues, discuss solutions, share knowledge and genuinely improve the performance of their community and PHNSY & IMF as a whole. Currently, there are eight corporate CoPs—each with a lead member—dedicated to a specific area of focus: Structural, Mechanical, Electrical, Piping & Insulation, Preservation & Coatings, Temporary Services and Equipment, Portable Coordinate Measuring Machine (PCMM), and Tooling. The CoPs include trades, engineering, and other support codes. In addition to innovation and process improvement, the Code 900 CoP Leads are also responsible for the Coaching & Mentoring and Continued Training Development programs.

If you have ideas on how we can make PHNSY & IMF function more efficiently, please contact your Community of Practice Leads—they are here to help.

Code 920 Structural CoP Lead, Sam Sumajit

AOR: Code 920 Shop 11 Shipfitter, Shop 17 Sheet Metal, and Shop 26 Welder trades

Code 930 Mechanical CoP Lead Kerry Ejima

AOR: Code 930 Shop 31 Machinist and Shop 38 Outside Machinist

Code 950 Electrical CoP Lead Jonathan Sagadraca

AOR: Code 950 Shop 51 Electricians, Shop 52 Calibration, Shop 67 Electronics

Code 960 Piping & Insulation CoP Lead Chad Obara

AOR: Code 960 Shop 06 Tool and Equipment Maintenance, Shop 56 Pipefitters, and Shop 57 Insulators

Code 970 Preservation & Coatings CoP Lead Larin Masuoka

AOR: Code 970 Shop 64 Sail Loft, Shipwrights, and Plastics Fabricators, Shop 71 Painter, Blaster, and Equipment Cleaners

Code 990 CoP Temporary Services and Equipment Lead Eugene Manibog

AOR: Code 990 Shipyard Temporary Services Group (Electrical, Pipefitter, and Sheet Metal), Industrial Equipment Mechanic Trades

PCMM CoP Lead Nelson Fernandez

AOR: Implementing precision measurement technologies into naval maintenance work. Including addressing process development, training, calibration, procurement, and retention.

Photos by Justice Vannatta

Pearl Harbor Naval Shipyard STEM: FIRST Robotics Competition

Story by Nicholas Bove
Code 100TO Management Analyst and STEM Coordinator

In an era where technology advancements shape the maritime-landscape, Pearl Harbor Naval Shipyard and Intermediate Facility (PHNSY & IMF) is anchoring a commitment to progress by investing in the future of Science, Technology, Engineering, and Mathematics (STEM) students.

PHNSY & IMF is home to a vast array of ship maintenance professionals with a wide skill set of engineering disciplines and ever-growing trade skill experience. Each person at PHNSY & IMF is driven by their desire to innovate and solve complex problems using their technical skills and creativity. Fortunately, many employees recognize the importance of inspiring and guiding the next generation of students who may be interested in pursuing careers in STEM and/or a trade field. As a result, a few of these employees are mentoring their former high school's robotics team or volunteering to help set-up and run career days and other related events.

The FIRST Robotics Competition (FRC) Hawaii Regional took place in March 2023 and was hosted at the Stan Sheriff Center with over 30 competing high school teams attending from around the world. PHNSY & IMF employees mentor RoboKAP (Kapolei), The Hawaiian Kids (Waialua) and Team Magma (Kalani). The teams learn about the competition objective roughly six weeks prior to the event and immediately go into build mode to create a fully functioning robot. After the robot is built, the team must test the robot during practices to discover where improvements are needed.

RoboKAP and The Hawaiian Kids won the regional competition securing their spot at the FRC World Championship event, often referred to as "Worlds," in Houston, Texas. The Hawaiian Kids also won numerous awards, including regional winners, at various regional competitions. Team Magma earned their spot at Worlds through their Engineering Inspiration Award from the Port Hueneme Regional, along with the Hawaii Regional Industrial Design and Regional Dean's List Finalist awards. Each team that participated in the competition gave it their best shot and will surely be involved this year with even greater motivation to win it all.

Code 241 Process Quality and Training Engineer Sarah Dulay was one of the many PHNSY & IMF employees who was involved with the FRC in 2023. Sarah supported the event by being a Regional Planning Committee Co-Chair and was presented with a Volunteer of the Year Award. Dulay is also a Director on the Hawaii FIRST Robotics Board of Directors, a mentor for her high school team, and a FIRST Lego League Planner. She, like many of our other employees, continue to be involved in FIRST robotics.

Quick facts and how to get involved:

- PHNSY & IMF STEM mentors/supporters come from various Codes: 100TO Transformation Office, 105 Radiological Controls, 106 OSHE, 130 Quality Assurance, 200 Engineering and Planning, 920 Structural, 930 Mechanical, 950 Electrical, and 2300 Nuclear Engineering & Planning.
- Many mentors/supporters are alumni of the team they now work with.
- There are no degree or pay-grade requirements to be involved with STEM.
- STEM is more than just engineering. The trades are involved, especially with robotics.
- PHNSY & IMF supported the mentors/supporters assisting their teams by providing STEM time allowed hours during the week of the FRC.
- Contact the STEM program at PHNSSTEM@us.navy.mil if you would like to get involved or visit the STEM SharePoint page for more information.

Photo by Justice Vannatta

Above front row: Code 2330.1 Nuclear Control Systems Engineer Malcolm Menor, volunteers at Waialua High School (H.S.), Code 241, Process, Quality, and Training Engineer Sarah Dulay, volunteers at Kapolei H.S., Code 260.1B Mechanical Engineer Alexine Niro, volunteers at Kapolei High School and Code 260.8 Mechanical Engineer Collin Miyata, volunteers at Kapolei H.S. **Back row:** Code 2340.4 Nuclear Shift Test Engineer Paul Hutchinson, volunteers at Waialua H.S., Code 290.1 Lead Test Engineer-Weapons Reid Arakaki, volunteers at Kalani H.S., Code 260.2B Mechanical Engineer Arvin Niro, volunteers at Kapolei H.S. and Code 134.5 Lab Analyst Caleb Lorenzo, volunteers at Kapolei H.S.

Top: RoboKAP, from Kapolei High School, are crowned 2023 Hawaii Regional FIRST Robotics Champions.

Code 2310.6 Innovation Branch Implements Improvements

Story by Alex Jurasek, Code 2310.6 NEPD Branch Supervisor

As a proactive effort, Code 2300 Nuclear Engineering Planning Department (NEPD) established the Code 2310.6 Nuclear Innovations Branch to identify, develop and drive implementation of NEPD improvement and innovation efforts at Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility (PHNSY & IMF).

The branch is committed to identifying and overcoming hurdles in naval nuclear work associated with safety, operational availability, cost, efficiency and exposure. With a strong emphasis on corporate collaboration, the team actively engages with other shipyards and prime contractors to efficiently leverage experience across the enterprise.

Since its inception in May 2023, the team has found successes in developing a database for engineering tools used to improve performance in technical documents, developed and executed alternative methods for testing containment boundaries, implemented solutions for the workforce to easily access 360-degree image capture of workspaces and improved temporary system designs.

The branch is actively engaged in efforts related to integration of laser ablation, additive manufactured parts, obtaining and utilizing 3D models for Virginia-class submarine work, proposing improvements for VA-class nuclear work and implementation of digital tools.

The NEPD Innovation Branch is motivated to challenge the status quo, identify alternative solutions, and work with interested engineering production groups to modernize PHNSY & IMF's processes.

For more information, please contact:
Alex Jurasek
Code 2310.6 Nuclear Innovations Team
Reactor Engineering Division

Pictured: Code 2310 Division Head Justin Roque, Code 2310.6 NEPD Innovation Branch Engineers Chris Calpito, Casey Baron, Nick Kennedy, Keanu Kim, Code 2310.6 NEPD Innovation Branch Supervisor Alex Jurasek and Code 2310.6 NEPD Innovation Branch Supervisor Ryan Naka.

Photo by Justice Vannatta

2024 Technology Showcase

Story by Tinamarie Cura, Code 100TO.32
Office of Research and Technology Applications Representative

Each year Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility (PHNSY & IMF) starts the new year with the Technology Showcase event. This two-day event was held on Jan. 17-18, 2024, in Building 2. The Technology Showcase is a joint effort between PHNSY & IMF and the National Center for Manufacturing Sciences (NCMS).

The Technology Showcase offers a unique opportunity for academic and industry exhibitors to demonstrate system capabilities. It allows the users to evaluate new products hands-on to find effective solutions to PHNSY & IMF's needs and challenges.

The Technology Showcases plays a pivotal role in driving innovation, sparking new ideas and allows PHNSY & IMF to stay competitive.

NCMS offers a "try before you buy option" if you saw a product at the Technology Showcase that you are interested in. In addition, Code 100TO Innovation and Tech Insertion has additional funding is available if you would like to incorporate something seen at the Technology Showcase.

For more information, please contact: Duane Domingo at x2326 or Shayla Deitch at x2528 if you are interested in a Technology Showcase product.

Photo by Nicholas Bove

People's Periscope

Question of the day:

How important is innovation to our command?

Cailee Awa
Code 900F.33 Civil Engineer

"Innovation is very important to our command. Innovation drives growth, opens new opportunities and diversifies our shipyard. As new technologies and processes develop, we need to be able to adjust to keep our ships fit to fight."

Malcolm Menor
Code 2330, Nuclear Control Systems Engineer

"Innovation is born out of necessity. As the challenges we face become more complex, we as a shipyard must commit to concentrated efforts to change the way we approach and solve these challenges. Finding innovative solutions is the key. The mindset to do things because 'that's the way we've always done it' will not cut it in this ever-changing environment. Fostering an Outward Mindset, instilling transformative creativity, and working together to break barriers, we as a shipyard can overcome the complacency of today with the innovations of tomorrow. In the words of Peter Drucker, "The best way to predict the future is to create it."

C.J. Manilag
Boatswain's Mate
Second Class Petty Officer

"In my opinion, innovation is crucial in shipyard operations because it helps improve efficiency and safety standards. It also drives advancements in technology for ship construction and repair. Embracing innovation can give shipyards a competitive edge in the industry."

Duane Domingo
Code 100TO.32
Branch Head/Tech Insertion Manager

"We have adversaries with ever-increasing capabilities in technology and warfighting right at our front door. To maintain our competitive advantage, it is imperative that we realign our innovation mindset to foster creative ideas in the shipyard. In the innovation space, there is a strong sense of collaboration between DOD activities, private industry, and academia to help propel new technology and repair capabilities within NAVSEA. Everyone in the shipyard has the opportunity to participate in this effort; the solution is not always that shiny new piece of equipment, rather it is the simple innovative ideas that I've found to be the most effective and inspiring."

Photos by Justice Vannatta

Innovation Terms

Q	Y	C	X	O	C	C	C	H	N	E	W	N	E	S	S	G	X	R	A
L	E	B	I	N	T	R	O	D	U	C	T	I	O	N	Y	M	N	M	R
J	G	B	K	G	J	F	P	Z	P	A	H	W	Y	W	D	O	H	I	K
G	Y	W	X	B	K	W	G	E	L	B	P	P	H	O	I	D	N	Q	P
N	O	T	I	O	N	B	F	I	R	C	K	Q	E	T	N	I	O	W	F
O	I	X	Y	D	X	E	D	R	O	M	I	R	A	F	F	F	I	H	A
N	R	C	E	H	I	K	W	N	I	U	U	Z	L	M	N	I	T	S	D
N	O	I	T	A	R	E	T	L	A	T	I	T	S	K	A	C	A	Q	D
Q	Z	U	B	E	N	R	B	W	R	N	L	I	A	J	U	A	I	A	I
S	H	I	F	T	A	K	Z	A	R	T	N	L	L	T	E	T	R	D	T
V	L	W	S	P	O	L	P	E	U	R	V	G	O	E	I	I	A	L	I
M	Y	K	T	E	Z	E	D	O	E	N	U	Y	U	S	Q	O	V	H	O
E	F	I	W	B	D	O	E	D	N	G	E	W	X	S	M	N	N	F	N
I	O	X	L	M	M	M	O	V	P	V	E	G	N	A	H	C	W	K	S
N	G	S	T	U	J	M	K	N	O	I	T	A	I	V	E	D	L	Q	Z

ADDITION
ALTERATION
CHANGE
CONTRAPTION
DEPARTURE
DEVIATION
INTRODUCTION
MODERNIZATION
MODERNISM
MODIFICATION
NEWNESS
NOTION
PERMUTATION
SHIFT
VARIATION

Photo by Justice Vannatta

Labor & Employee Relations Disciplinary Actions

Letter of Expectations

An employee was cited for Failure to maintain regular work schedule & failure to carry out duties expected of position

Letter of Caution

An employee was cited for tardiness

Letter of Caution

Two employees were cited for failure to follow leave procedures

Letter of Caution

Two employees were cited for failure to follow instructions

Letter of Caution

An employee was cited for inappropriate conduct

Suspension (3-Day)

An employee was cited for inappropriate conduct & failure to carry out duties expected of position

Suspension (5-Day)

An employee was cited for unauthorized possession of a portable electronic device (PED)

Suspension (7-Day)

An employee was cited for inappropriate conduct & misuse of Government property

Termination

An employee was terminated for failing to meet performance expectations during probationary period

TO REPORT AN INCIDENT OF HARRASSMENT, CONTACT:

CODE 100CE DIRECTOR: 473-8000 x5347
CODE 100CE DEPUTY DIRECTOR: 473-8000 x6073

TO FILE AN EEO COMPLAINT, CONTACT: EEO OFFICE: 808-471-0241

Service Awards

25 Years
Chad Taniguchi
Marlynn Tyler-Roldan
Christopher Wong
Troy Yoshida
Alan Acierto Jr
Luke Adams
Denley Agcaoili
Euell Bongolan
Jacob Choo
David Egusa
Gavin Enos
Jimmy Espina
Timothy Farias
Shawn Hiromasa
Federico Kobuke
Calvin Koike
Melissa Lamerson
Kalani Lee

30 Years
Bernardine Manibog
Gary Palacio Jr
Deanna Tasaka

35 Years
Brian Hanaoka
Miles Kotoshirodo

40 Years
Daniel Deliz Jr

50 Years
Warren Kimokeo

Fair Winds & Following Seas to Retirees

Ron Peiler
Clyde Higa
Thomas Urian
Alvin Tuvera
Gary Oda
Patrick Morrissey
Bryan Chun
Leonard Chang
Joseph Akim
Jerrod Tamashiro
Julius Quiba
Steven Niimoto
Patrick McLoud
Nathan Lum
Michael Niino
Roland Pagaduan
Edgar Quarto
Alden Takaoka

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