

# Navy Accepts Delivery of USNS John L. Canley



[Release from Naval Sea Systems Command](#)

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March 1, 2023

By Team Ships Public Affairs

SAN DIEGO – The Navy accepted delivery of USNS John L. Canley (ESB 6), March 1.

ESB-class ships are highly flexible platforms that support various military operations such as Airborne Mine Counter Measures (AMCM), Special Operations Force (SOF) operations, Crisis Response Sea-basing (e.g., Special Purpose Marine Air

Ground Task Force), Intelligence, Surveillance, and Reconnaissance (ISR) and Unmanned Aviation Systems (UAS) operations. The ships are part of the critical access infrastructure that supports the deployment of forces.

“Today’s delivery highlights the strengths of the Navy and our industry partners, working together to bring ESB 6 and its range of capabilities to the fleet,” said Tim Roberts, Strategic and Theater Sealift program manager, Program Executive Office, Ships. “Sergeant Major Canley nobly served his country, and his namesake ship will help provide the warfighter with capability and access.”

The ESB ship class has a flight deck with four aviation operating spots capable of supporting MH-53E helicopters; accommodations; workspaces; and ordnance storage for embarked forces, enhanced command, control, communications, computers, and intelligence. These ships also feature a reconfigurable mission deck area to store equipment, including mine sleds and Rigid Hull Inflatable Boats.

Construction of the future USS Robert E. Simanek (ESB 7) is ongoing at General Dynamics NASSCO shipyard in San Diego.

As one of the Defense Department’s largest acquisition organizations, Program Executive Office, Ships is responsible for executing the development and procurement of all destroyers, amphibious ships, special mission and support ships, and boats and craft.

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**International**

**Maritime**

# Exercise 2023 Kicks Off Operational Phase



[Release from U.S. Naval Forces Central Command Public Affairs](#)

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02 March 2023

From U.S. Naval Forces Central Command Public Affairs

MANAMA, Bahrain – The Middle East region’s largest maritime exercise, International Maritime Exercise (IMX) 2023, kicked off its operational phase March 2 during an opening ceremony at U.S. 5th Fleet’s headquarters in Bahrain.

The ceremony capped a week of academic discussions covering a series of topics including the naval planning process,

maritime operations center procedures, and disaster response coordination.

IMX 2023 is an 18-day naval training event hosted by U.S. Naval Forces Central Command (NAVCENT). This year's iteration is combined with exercise Cutlass Express, which is led by U.S. Naval Forces Europe-Africa.

The combined exercises include 7,000 personnel, 35 ships, and 30 unmanned and artificial intelligence systems from more than 50 nations and international organizations.

IMX and Cutlass Express are designed to demonstrate global resolve in preserving the rules-based international order, offering a unique opportunity for participants to collaborate and showcase regional maritime security cooperation.

"The incredible level of international representation is truly remarkable," said Vice Adm. Brad Cooper, commander of NAVCENT, U.S. 5th Fleet and Combined Maritime Forces. "Maritime forces are always at our best when we work and lead together."

Cooper is the IMX 2023 exercise commander. Senior officers from United Arab Emirates and France are serving as the deputy commander and vice commander, respectively. Additionally, IMX's chief of staff is from Pakistan and the maritime operations center director is from Egypt.

International naval forces participating in the exercise are divided into five operational task forces led by Bahrain, Jordan, Kenya, Saudi Arabia and the United States. Training evolutions will span across the Arabian Gulf, Arabian Sea, Gulf of Oman, Gulf of Aden, Red Sea, Indian Ocean and East African coastal regions.

The operational phase will include partner exchanges on mine countermeasures; visit, board, search and seizure; unmanned systems and artificial intelligence integration; explosive ordnance disposal; vessel defense; search and rescue; and mass

casualty response, among other focus areas.

This is the eighth iteration of IMX since its establishment in 2012.

IMX and Cutlass Express are scheduled to conclude March 16 and 17, respectively. A full list of nations and international organizations participating is available at: <https://www.dvidshub.net/feature/IMX23>.

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## U.S. Forces Assist UK Seizure of Missiles Shipped from Iran



Photo By [Sgt. Brandon Murphy](#) | U.S. 5TH FLEET AREA OF OPERATIONS (Feb. 26, 2023) Anti-tank guided missiles and medium-range ballistic missile components seized by the United

Kingdom Royal Navy sit pierside during inventory at a military facility in the U.S. 5th Fleet area of operations, Feb. 26, 2023. (U.S. Army photo by Sgt. Brandon Murphy)

[Release from U.S. Naval Forces Central Command Public Affairs](#)

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MANAMA, Bahrain – U.S. forces provided airborne intelligence, surveillance and reconnaissance support for an interdiction in the Gulf of Oman conducted by the United Kingdom Royal Navy, Feb. 23, that resulted in the discovery of an illegal weapons shipment from Iran.

Coordinated efforts among U.S. and UK maritime forces led to Royal Navy frigate HMS Lancaster (F229) confiscating anti-tank guided missiles and missile components from a small boat that originated from Iran. UK forces discovered packages that included Iranian versions of Russian 9M133 Kornet anti-tank guided missiles, known in Iran as “Dehlavieh,” and medium-range ballistic missile components.

“This is the seventh illegal weapon or drug interdiction in the last three months and yet another example of Iran’s increasing malign maritime activity across the region,” said Vice Adm. Brad Cooper, commander of U.S. Naval Forces Central Command, U.S. 5th Fleet and Combined Maritime Forces. “We will continue to work with our partners in pursuing any destabilizing activity that threatens regional maritime security and stability.”

The interdiction occurred along a route historically used to traffic weapons unlawfully to Yemen. The direct or indirect supply, sale or transfer of weapons to the Houthis in Yemen violates U.N. Security Council Resolution 2216 and international law.

U.S. and UK naval forces regularly conduct combined maritime security operations to disrupt the flow of illicit cargo in Middle East waters. Last year, U.S. Navy guided-missile

destroyer USS Gridley (DDG 101), Royal Navy frigate HMS Montrose (F236) and combined air assets led to Royal Navy forces seizing surface-to-air missiles and land-attack cruise-missile engines.

In the past three months, seven major interdictions have resulted in U.S. and partner maritime forces seizing more than 5,000 weapons, 1.6 million rounds of ammunition, 7,000 proximity fuses for rockets, 2,100 kilograms of propellant used to launch rocket propelled grenades, 30 anti-tank guided missiles, medium-range ballistic missile components and \$80 million worth of illegal drugs.

U.S. Naval Forces Central Command and United Kingdom Maritime Component Command are headquartered in Manama, Bahrain.

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## **U.S. Navy Ship Supports UAE Pilot Training in Arabian Gulf**



ARABIAN GULF (Feb. 23, 2023) A United Arab Emirates Armed Forces Bell 407 conducts deck landing qualifications aboard expeditionary sea base USS Lewis B. Puller (ESB 3) in the Arabian Gulf, Feb. 23, 2023. Puller is deployed to the U.S. 5th Fleet area of operations to help ensure maritime security and stability in the Middle East region. **(Photo by Lt. Cmdr. Jason Clark)**

[Release from U.S. Naval Forces Central Command Public Affairs](#)

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U.S. Navy Ship Supports UAE Pilot Training in Arabian Gulf

By U.S. Naval Forces Central Command Public Affairs | February 28, 2023

MANAMA, Bahrain –

A U.S. Navy ship served as a training platform for helicopter pilots from the United Arab Emirates Armed Forces, Feb.

22-24.

Emirati pilots conducted deck landing qualifications aboard U.S. Navy expeditionary sea base USS Lewis B. Puller (ESB 3) as the ship operated in the Arabian Gulf, enhancing interoperability among regional maritime partners.

“The pilots and aircrew integrated seamlessly with the deck crew of Lewis B. Puller,” said Capt. Jon Bradford, commanding officer of Lewis B. Puller. “It was a great experience for my team and we look forward to working with our Emirati partners in the future.”

The deck landing qualifications helped 25 Emirati military pilots maintain proficiency in landing on the flight deck of a ship at sea.

During the three-day training opportunity, UH-60M Black Hawk, Bell 407, AS332 Super Puma, and AH-64D Apache helicopters conducted 158 landings. Emirati personnel also practiced repelling from a fast-rope on Lewis B. Puller’s flight deck.

Lewis B. Puller is forward-deployed to U.S. 5th Fleet and is capable of supporting a wide variety of missions including counter-piracy, maritime security, disaster relief and crisis response operations.

The U.S. 5th Fleet operating area includes 21 countries, the Arabian Gulf, Gulf of Oman, Red Sea, parts of the Indian Ocean and three critical choke points at the Strait of Hormuz, Bab al-Mandeb and Suez Canal.

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# Hershel “Woody” Williams Delivers Supplies to Türkiye



[Release from U.S. Naval Forces Europe-U.S. Naval Forces Africa](#)

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01 March 2023

From Petty Officer 2nd Class Conner Blake

MERSIN, Türkiye – USS Hershel “Woody” Williams (ESB 4) arrived in Mersin, Türkiye, Feb. 28, to deliver disaster relief supplies to Turkish officials for those affected by the Feb. 6 earthquakes.

The role of U.S. military forces during this disaster relief mission is to rapidly respond to the natural disaster with critically needed capabilities and life-saving equipment,

delivering assistance to aid areas the government of Türkiye deems necessary. Hershel "Woody" Williams' arrival to Mersin demonstrates a continued commitment to successfully completing that mission.

While operating in the U.S. Sixth Fleet area of operations, the Hershel "Woody" Williams' crew took on over 100 pallets of supplies consisting of hygiene products, clothes, blankets, cots, comfort kits and more.

"To be able to execute this mission really rounds out the mission set the Navy has to offer," said Lt. Micah Gustafson, Hershel "Woody" Williams Gold military crew (milcrew) supply officer.

After coordinating with Commander, Task Force 63 (CTF-63), the crew was tasked with organizing the pallets so the supplies could be expeditiously delivered to those in need.

"We sorted through and took inventory of the supplies so everything can be delivered as fast as possible to the areas and people who need the aid," said Petty Officer 1st Class Kyle Son Smith. "This crew is working long hours to execute this mission and we feel honored to have the opportunity to help the people of Türkiye. Everyone has showed a great deal of unity during this mission and I am proud to be a part of it."

As the crew offloaded the supplies for the Turkish people, Capt. Lenard Mitchell, Hershel "Woody" Williams Gold milcrew commanding officer, said he is proud of the commitment his Sailors have demonstrated while embracing this mission for the greater good.

“Woody’s warriors always stand ready to answer the call to work with our Allies,” said Mitchell.

Following a 7.8 magnitude earthquake that struck Türkiye on Feb. 6, 2023, U.S. military forces assigned to U.S. European Command are providing humanitarian assistance and disaster relief in support of U.S. Agency for International Development (USAID), the Bureau of Humanitarian Assistance (BHA), and the international community to Turkish people during this tragedy.

Hershel “Woody” Williams is forward-deployed to the U.S. Naval Forces Africa (NAVAF) area of operations, while employed by U.S. Sixth Fleet. The ship is capable of conducting humanitarian and disaster relief operations, as well as supporting a variety of rotary wing aircraft. Hershel “Woody” Williams’ unique capabilities are part of the critical access infrastructure that supports the deployment of forces and supplies to support global missions.

Task Force 63 is headquartered at Naples, Italy. Composed of oilers, provision ships, and repair ships, its mission is the delivery of supplies at sea, and effecting repairs to other ships and equipment of the Fleet. Commander, Task Force 63 (CTF-63) is the operational commander of all the U.S. 6th Fleet air and sea logistics.

Task Force 61/2, under operational control of U.S. Naval Forces Europe and U.S. Sixth Fleet, is responding to the deadly 7.8 and 7.6 magnitude earthquakes that devastated Türkiye on Feb. 6. Hours after the earthquake, U.S. Marines and Sailors established a forward crisis response operations center at Incirlik Air Base, Türkiye, in close coordination with U.S. interagency partners and Turkish officials.

For over 80 years, U.S. Naval Forces Europe-U.S. Naval Forces Africa (NAVEUR-NAVAF) has forged strategic relationships with our Allies and Partners, leveraging a foundation of shared values to preserve security and stability.

Headquartered in Naples, Italy, NAVEUR-NAVAF operates U.S. naval forces in the U.S. European Command (USEUCOM) and U.S. Africa Command (USAFRICOM) areas of responsibility. U.S. Sixth Fleet is permanently assigned to NAVEUR-NAVAF, and employs maritime forces through the full spectrum of joint and naval operations.

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**Navy delivers first pilot  
trainer to deployed carrier  
airborne early warning  
squadron**



The Naval Aviation Training Systems and Ranges program office (PMA-205) recently delivered the first Aircrew Procedures Trainer (APT) device to Carrier Airborne Early Warning Squadron (VAW) 125 at Marine Corp Air Station (MCAS) Iwakuni, Japan. Pictured is a cockpit view of an APT device. (U.S. Navy Photo)

[Release from Naval Air Systems Command](#)

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Navy delivers first pilot trainer to deployed carrier airborne early warning squadron

Published: Feb 28, 2023

NAVAL AIR SYSTEMS COMMAND, PATUXENT RIVER, Md. –

The Naval Aviation Training Systems and Ranges program office (PMA-205) recently delivered the first Aircrew Procedures Trainer (APT) device to Carrier Airborne Early Warning Squadron (VAW) 125 at Marine Corps Air Station (MCAS) Iwakuni, Japan.

This delivery is the first pilot trainer that will be embedded

with a forward deployed unit within the VAW community, completing the Navy's planned platform training system deliveries for deployed aircrew.

"The delivery of this training device to VAW-125 will revolutionize the way Navy forward-deployed forces train and enable them to win the high-end fight," said Capt. Kevin McGee, PMA-205 program manager. "The team put in significant effort to deliver this capability and ensure our forward-deployed forces are well equipped to maintain and improve their skills, even when deployed."

The APT device provides deployed pilots realistic, high-fidelity simulator training in basic flight operations, navigation, emergency procedures, crew resource management, tactics, instrument procedures, carrier familiarization, and other capabilities. Training time in the simulator minimizes risk by providing a safe environment in which pilots can both practice for muscle memory and learn new skills that can be applied in an operational environment.

The program office originally procured a trainer for Norfolk, Virginia. One month after contract award, Airborne Command and Control and Logistics Wing signed and approved a requirement for a new device to be delivered to MCAS Iwakuni, Japan. Recognizing the urgent need, the Naval Air Warfare Center Training Systems Division team, along with industry partners, developed a creative solution to quickly meet both this new requirement and the current needs of the Fleet. Within two months of the announcement, the PMA-205 E-2 training systems team negotiated the new delivery location.

"As with many contracting actions, there were complications and challenges that had to be overcome for this device to be delivered, but with strong partnerships among all stakeholders this new high-fidelity trainer will help maintain the highest standards of readiness to meet Carrier Air Wing goals," said Dave Adams, PMA-205 E-2 training systems team lead.

## About PMA-205

PMA-205 provides full life-cycle acquisition of naval aviation training platforms, general training systems, training range instrumentation systems, and distributed mission training centers to provide U.S. Navy and Marine Corps pilots, naval flight officers, aircrew, and maintainers with the training equipment required to provide lethal capability and operational readiness.

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# **SECNAV Renames Ticonderoga-class Guided Missile Cruiser USS Chancellorsville after Robert Smalls**



PHILIPPINE SEA (Oct. 30, 2022) The Ticonderoga-class guided-missile cruiser USS Chancellorsville (CG 62) sails alongside Royal Canadian Navy ships HMCS Vancouver (FFH 331) and HMCS Winnipeg (FFH 338) in the Philippine Sea. Chancellorsville is forward-deployed to the U.S. 7th Fleet in support of security and stability in the Indo-Pacific and is assigned to Commander, Task Force 70, a combat-ready force that protects and defends the collective maritime interest of its allies and partners in the region. (U.S. Navy photo by Mass Communication Specialist 2nd Class Justin Stack)

[Release from the Secretary of the Navy Public Affairs](#)

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27 February 2023

WASHINGTON –Secretary of the Navy (SECNAV) Carlos Del Toro announced today that the Ticonderoga-class guided missile cruiser formerly named USS Chancellorsville (CG 62) will be renamed USS Robert Smalls (CG 62).

This renaming honors Robert Smalls, a skilled sailor and

statesman born into slavery in South Carolina.

The decision arrived after a congressionally mandated Naming Commission outlined several military assets across all branches of service that required renaming due to confederate ties. In September 2022, Secretary of Defense Lloyd Austin accepted all recommendations from the naming commission and gave each service until the end of 2023 to rename their assets.

“I am proud to rename CG 62 after Robert Smalls. He was an extraordinary American and I had the pleasure of learning more about him last year when I visited his home in South Carolina,” said Del Toro. “The renaming of these assets is not about rewriting history, but to remove the focus on the parts of our history that don’t align with the tenets of this country, and instead allows us to highlight the events and people in history who may have been overlooked. Robert Smalls is a man who deserves a namesake ship and with this renaming, his story will continue to be retold and highlighted.”

Robert Smalls (1839-1915) was born into slavery in South Carolina. He became a skilled sailor and was an expert navigator of southern coasts. Smalls was conscripted in 1862 to serve as pilot of the Confederate steamer *Planter* at Charleston. On 13 May 1862, he executed a daring escape out of the heavily fortified Charleston harbor with his family, other enslaved people, and valuable military cargo onboard, and successfully surrendered *Planter* to the U.S. Navy. Smalls continued as pilot of the ship, but also piloted ironclad *Keokuk* and other vessels. He ultimately became captain of *Planter*. An ardent advocate for African Americans, Smalls led one of the first boycotts of segregated public transportation in 1864. This movement led to the city of Philadelphia integrating streetcars in 1867. After the Civil War, Smalls was appointed a brigadier general of the South Carolina militia, and from 1868 to 1874 he served in the South Carolina legislature. In 1874, he was elected to the U.S.

House of Representatives and served for five terms, advocating for greater integration. After his time in Congress, Smalls was twice appointed collector of the Port of Beaufort, South Carolina. He died at Beaufort in 1915.

The logistical aspects associated with renaming the ship will begin henceforth and will continue until completion with minimal impact on operations and the crew. CG-62 was commissioned in 1989 and named USS Chancellorsville (CG 62) to honor the Battle of Chancellorsville, a Confederate victory during the Civil War. CG-62 is currently assigned to Carrier Strike Group Five and is forward-deployed to Yokosuka, Japan.

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## **BAE Systems to provide Maritime Indirect Fires System for UK Royal Navy**



## [Release from BAE Systems](#)

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*New automated Ammunition Handling System combined with Mk 45 gun to give UK Royal Navy critical advantage at sea*

LOUISVILLE, Ky. – Feb. 28, 2023 – BAE Systems, Inc. has received a \$219 million (GBP181 million) contract to equip the Royal Navy's Type 26 frigates with five Mk 45 Maritime Indirect Fire Systems (MIFS). The system combines the 5-inch, 62-caliber Mk 45 Mod 4A naval gun system with a fully automated Ammunition Handling System (AHS).

"We have innovated and customized the Mk 45 system to provide a critical and reliable fully automatic ammunition handling solution that revolutionizes medium and large caliber naval gunnery," said Brent Butcher, vice president of the weapon systems product line at BAE Systems, Inc. "The customized, lightweight and compact Mk 45 gun system with AHS provides our customers commonality with the U.S. Navy, a highly-reliable system with security of lifecycle support, and access to future technology upgrades. We look forward to continuing to build these critical partnerships and delivering the MIFS system to our U.K. customer."

The Type 26 frigates, the first of which is due to be delivered to the Royal Navy in the mid-2020s, will be one of the world's most advanced classes of warships, with the primary purpose of anti-submarine warfare. In addition to its range of advanced weapons and sensors, it will also be capable of countering piracy, delivering humanitarian aid and disaster relief. As part of the ships' world-class capabilities, this innovative, automated naval gun solution will help the Royal Navy increase crew productivity, reduce sailor safety hazards, and improve the operational capability of these advanced warships as they deliver protection to the Royal Navy's Continuous At Sea Deterrent and Carrier Strike Group.

Engineering and program support for the new contract will be performed at BAE Systems' Minneapolis and Louisville, Kentucky production facilities. BAE Systems shipped the main equipment for the first MIFS system at the end of 2022 with installation to follow in 2023.

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# **Vigor Successfully Completes USS Chosin (CG 65) Modernization at Harbor Island**



PEARL HARBOR (March 25, 2016) Sailors man the rails aboard USS Chosin (CG-65) as they prepare to depart Pearl Harbor one last time. Chosin will be homeport shifting to San Diego to undergo

Cruiser Modernization. (U.S. Navy Photo by Ensign Krystyna Nowakowski/Released)

Release from Vigor Shipyards *via email*

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*Three-year, highly complex maintenance project was largest in Vigor's history*

Seattle, WA (February 28, 2023) – Vigor, a Titan company, successfully completed a three-year modernization project on USS Chosin (CG 65) at its Harbor Island shipyard today, sending the U.S. Navy ship back to its homeport of Naval Station Everett. The project, which encompassed more than 1.7 million hours of work for Vigor employees, in addition to work by dozens of subcontractors and the U.S. Navy, was one of the largest, longest and most complex in Vigor's history.

“Vigor's completion of USS Chosin in Seattle represents an incredible success for our skilled workers and the hundreds of people who worked on this project over the last three years,” said Adam Beck, Executive Vice President of Ship Repair for Vigor. “Vigor employees and our many partners successfully managed this very complex project through the COVID-19 pandemic, ultimately returning the ship to the U.S. Navy to continue its service to our nation. We are honored to support the U.S. Navy, and are grateful to all who made this success possible.”

Vigor employees devoted approximately 1.7 million hours to USS Chosin over the last three years, modernizing weapons, communications and information systems, as well as upgrading many other areas of the ship. They worked in close partnership with the team from the Northwest Regional Maintenance Center (NWRMC) at Naval Station Everett, where USS Chosin is homeported.

Work on USS Chosin commenced alongside USS Cape St. George (CG 71), which is also scheduled to be completed this year. Both

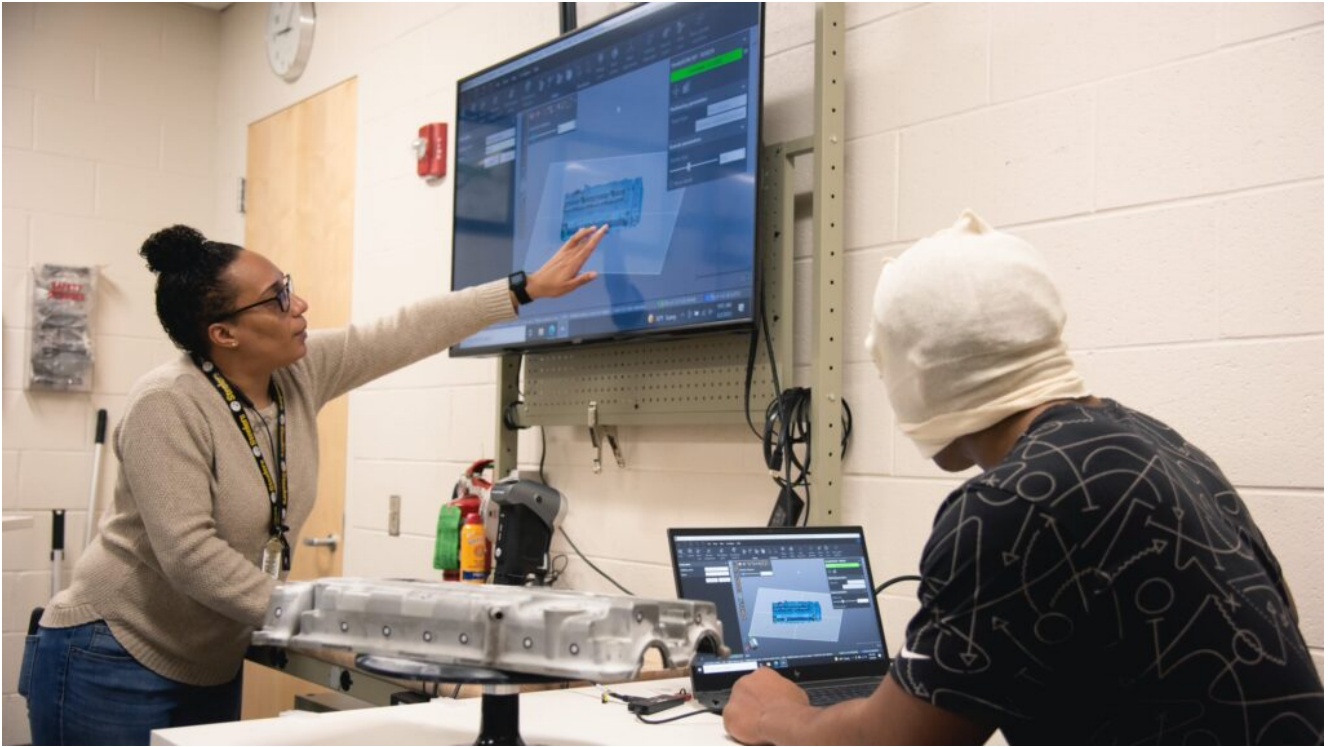
maintenance projects were awarded to Vigor together in 2019.

“This project was not only important to the Navy and our national defense, it also supported more than 600 family-wage jobs at the Harbor Island shipyard,” Beck said. “This steady work has allowed Vigor to grow the capacity of our skilled workforce in support of Navy readiness and supported industrial jobs and the local economy.”

As USS Chosin leaves Harbor Island, two other U.S. Navy ships remain at the facility, including USS Cape St. George and USS John Paul Jones (DDG 53). Vigor’s support for the Navy also extends beyond Seattle, with USS Tulsa (LCS 16) currently undergoing maintenance at Swan Island in Portland, OR and USS Michael Murphy (DDG 112) nearing the end of its availability in Hawaii.

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**Innovation Lab is Bringing  
HII Technology to the Next  
Generation of Shipbuilders**



[Release from HII](#)

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NEWPORT NEWS, Va., Feb. 28, 2023 (GLOBE NEWSWIRE) – HII’s (NYSE: HII) Newport News Shipbuilding division is harnessing the power of technology as it recruits the next generation of shipbuilders.

The Ray Bagley Innovation Lab is part of The Newport News Shipbuilding Apprentice School. The mobile laboratory includes stations that cover the various skill sets associated with all 19 trades offered by the school.

In use since 2021, the lab is part of the orientation process for new apprentices and affords students from K-12 schools the opportunity to explore shipbuilding trades and possible career opportunities.

“The Ray Bagley Innovation Lab allows students to experience the various trades used to build ships in a safe, controlled environment,” said Dr. Latitia McCane, director of education at The Newport News Shipbuilding Apprentice School. “The unique experience also helps breakdown preconceived ideas

about construction trades. We don't just build ships here, we build careers."

Photos accompanying this release are available at: <https://hii.com/news/innovation-lab-hii-technology-shipbuilders>.

The lab is intentionally mobile, allowing the workstations to move into the gymnasium, thus converting the gym into an actual work area. Portions of the equipment also leave campus for community events, such as supporting high school career days in the region.

On Feb. 17, the Innovation Lab was dedicated in honor of Ray Bagley, retired vice president of trades operations at NNS. Bagley retired in 2018 after serving the company for more than 43 years. He started his career as an apprentice painter and went on to work at all levels of production and construction leadership at NNS.

HII, Verizon and BayPort Credit Union all have provided financial support for the Ray Bagley Innovation Lab.

Funded by HII to train and develop the next generation of shipbuilders, The Newport News Shipbuilding Apprentice School offers four- to eight-year, tuition-free apprenticeships in 19 trades and eight optional advanced programs.

Accredited by the Council for Occupational Education, The Newport News Shipbuilding Apprentice School is certified to offer associate's degrees of applied science in maritime technology in 26 educational programs. Through partnerships with Virginia Peninsula Community College, Tidewater Community College and Old Dominion University, the Newport News Shipbuilding Apprentice School's academic program provides the opportunity to earn associate degrees in business administration, engineering and engineering technology and bachelor's degrees in mechanical or electrical engineering.