



**Naval Construction and Engineering
Ship Design and Technology Symposium**

Friday, May 3, 2024

**Boston Marriott Cambridge
50 Broadway, Cambridge, MA**

- 0800 Registration and Continental Breakfast
- 0900 Welcome and Opening Remarks
- CAPT Andrew Gillespy, Director Naval Construction and Engineering
 - Professor Themistoklis Sapsis, Director of the Center for Ocean Engineering, MIT
- 0910 Student Design Project Brief
- Project Pacific Bridge: Fleet Response Dock (FRD): LT Jonathan Daus, LT Christopher Sarao, LT Katie Spaeth
- 0935 Research Brief: Professor Steven Leeb and LTJG Jack Skimmons, USCG
- 1000 Poster Session #1
- 1030 Student Conversion Project Brief
- T-ESD Heavy Lift Ship Conversion: LCDR Matthew Dickerman, LCDR Wade Meyers, LT Matthew Ahlers
 - *Winner - New England Chapter – SNAME Graduate Student Paper*
- 1050 Research Brief: Professor Dick Yue and LT Think B. Hoang
- Exploring Tradeoffs and Emergent Properties of Heterogeneous Swarms of Maritime Robot Systems through Empirical Analysis and Application-Driven Experiments
- 1115 Poster Session #2 - Lunch Served
- 1145 Lunch with Keynote Address: Rear Admiral Jason M. Lloyd:** Chief Engineer and Deputy Commander for Ship Design, Integration and Naval Engineering, SEA-05, NAVSEA
- 1245 Student Design Project Brief
- MCM(X); The Next Generation of Mine Clearance Ship: LCDR Jason Webb, LCDR(s) Asia Allison, LT Mikala Molina
- 1310 Research Brief: Professor Faez Ahmed and Mr. Noah Bagazinski, MIT
- Generative Artificial Intelligence for Performance and Constraint Informed Ship Design
- 1340 Poster Session #3
- 1410 Student Design Project Brief
- Project Talos: Large Unmanned Surface Vessel (LUSV) with a Vertical Launching System (VLS): LCDR Christos Gkiokas, LCDR(s) Heather Willis, LT Think B. Hoang
- 1435 Research Brief: Professor Paul Sclavonous and LT Jonathan Daus
- Magnetohydrodynamic Induction Pump Jet Propulsor for Underwater Vehicles
- 1500 Concluding Remarks - Mission Complete

Rear Admiral Jason M. Lloyd

Chief Engineer and Deputy Commander for Ship Design, Integration and Naval Engineering, SEA-05, Naval Sea Systems Command

Rear Adm. Jason Lloyd, a native of Maryville, Tennessee, enlisted in the Naval Nuclear Propulsion program in 1986. He was subsequently selected into the NROTC program, graduated from Florida State University with a Bachelor of Science in Mechanical Engineering and was commissioned in 1992. He also holds a Master of Science in Mechanical Engineering from the Naval Postgraduate School.



His shipboard tours include USS Bainbridge (CGN 25) and USS Nimitz (CVN 68). From May 2013 until June 2016, he served as the first reactor officer on USS Gerald R. Ford (CVN 78) in Newport News, Virginia. During these assignments, Lloyd conducted deployments to the Mediterranean Sea and North Atlantic Ocean as well as executed a Refueling Complex Overhaul and a New Construction testing program.

Ashore, Lloyd served as a deputy Project Superintendent at Norfolk Naval Shipyard, maintenance coordinator at Commander Naval Air Forces, principal assistant program manager at PEO Carriers, Program Manager Representative for Refueling Complex Overhaul and Program Manager Representative for New Construction Carriers at the Supervisor of Shipbuilding, Newport News. Following his Reactor Officer tour, Lloyd served as executive assistant to Commander, Naval Sea Systems Command. From June, 2017 until March, 2020 Lloyd served as the commanding officer of the Supervisor of Shipbuilding, Newport News, Virginia. In May 2020, Lloyd assumed duties as chief engineer and deputy commander for Naval Engineering and Logistics, Naval Sea Systems Command.

As the Navy's chief engineer and NAVSEA deputy commander for Naval Engineering and Logistics, Lloyd leads the engineering and scientific expertise, knowledge and technical authority necessary to design, build, maintain, repair, modernize, certify and dispose of the Navy's ships, aircraft carriers, submarines and associated combat and weapons systems.

He is authorized to wear the Legion of Merit (three awards), Meritorious Service Medal (four awards), the Navy and Marine Corps Commendation Medal (four awards), Navy Achievement Medal (two awards) in addition to various unit awards.