



## Naval Construction and Engineering Ship Design and Technology Symposium

Wednesday, April 30, 2014

**Twenty Chimneys Room, MIT Stratton Student Center**

- 0800 - 0845      Registration and continental breakfast
- 0845 - 0920      Welcome and Opening Remarks  
- Prof. Michael Triantafyllou, Director, Center for Ocean Engineering  
- CAPT Mark Thomas, 2N Curriculum Officer  
- Prof. John Leonard, Area Head, Ocean Science and Engineering
- 0920 - 1010      Student Design Project Briefs  
- LCS Heavy Lift Tender Conversion: LT Jeff White, LT Matt Williams, LT Ryan Zachar  
- Fuel-Efficient Destroyer, DDG(X): LCDR Douglas Jonart, LT Aaron Dobson, LT Adam Jones
- 1010 - 1030      Break and Poster Sessions (featuring student theses and projects)
- 1030 - 1050      Research Brief: Prof. Ron Ballinger  
- Submarine Propulsion Shaft Life: Probabilistic Prediction and Extension through Prevention of Water Ingress: LCDR Douglas Jonart
- 1050 - 1140      Student Design Project Briefs  
- T-AKE Humanitarian Assistance/ Disaster Relief (HA/DR) Conversion: LT Kerry Bosché, LT Ian Campbell  
LT Ungtae Lee, LT Vanea Pharr  
- Special Operations Vessel: LT Leon Faison, LT Kyle Miller, LT Kyle Woerner
- 1140 - 1200      Break and Poster Sessions (featuring student theses and projects)
- 1200 - 1300      Lunch Buffet and Keynote Address**  
**Rear Admiral David Johnson, PEO Submarines**
- 1300 - 1320      Student Design Project: Whidbey Island Class LSD to SEAL Support Ship Conversion: LT Brandy Dixon, LT Matt Strother, LT Kathleen McCoy
- 1320 - 1405      Research Briefs: Dr. Stefano Brizzolara  
- Design and Assessment of a Super High Speed, Hybrid Hydrofoil/SWATH Crew Boat: LTJG Vasileios Georgiadis  
- Design of a High Speed Planing Hull with a Cambered Step and Surface Piercing Hydrofoils: LT Leon Faison
- 1405 - 1425      Break and Poster Sessions (featuring student theses and projects)
- 1425 - 1445      Research Brief: Dr. Mike Benjamin  
- COLREGs - Compliant Autonomous Collision Avoidance Using Multi-Objective Optimization with Interval Programming: LT Kyle Woerner
- 1445 - 1515      Student Design Project: Anti-Piracy Combatant: LTJG Vasileios Georgiadis, LT Mark Ewachiw, LT Damian Oslebo
- 1515 - 1540      Research Brief: Prof. Tomasz Wierzbicki  
- Mechanical Characterization of Lithium-Ion Battery Micro Components for the Development of Homogenized and Multilayer Material Models: LT Kyle Miller
- 1540 - 1600      Wrap-up and concluding remarks
- 1600              Mission Complete**