

NAVAL SCIENCE AND TECHNOLOGY

ENGR 3109: Navy STEM Professional Development Seminar

Wednesday, November 13, 2019

5:00 pm to 6:00 pm

URI, AVD Hall 240 ~ Live Streaming to UConn

APPLICATIONS OF MECHANICAL ENGINEERING DESIGN

DESCRIPTION: Mechanical engineering design projects utilize most aspects from engineering curriculum in academia. This presentation will cover most aspects of mechanical design from materials characterization testing, conceptual design, system integration, and analysis and testing. Examples of different applications involving materials testing, mechatronics, and prototyping will be discussed with engineering rationale. Distinct stages of the engineering process will be discussed with potential choices and the resulting paths forward.

DR. DAVID BAMFORD

NAVAL UNDERSEA WARFARE CENTER, NEWPORT, RI

Dr. David J. Bamford received his BS in Mechanical Engineering from Cornell University, MS in Mechanical Engineering from North Carolina State University, and PhD in Civil Engineering (Applied Mechanics) from the University of Connecticut in 1995, 1997, and 2009 respectively. His civilian naval engineering career at the Naval Undersea Warfare Center (NUWC) began in the Electromagnetic Systems Department at NUWC, where he worked on design, structural and heat transfer analysis, testing, and integration of electro-mechanical inboard and outboard systems. He has significant experience in systems design, stabilization, vibration and shock testing, and structural analysis. Dr. Bamford has been responsible for dynamic stabilization of outboard sensors in the Electromagnetic Systems Department. He has also been responsible for designing electromechanical testing fixtures for simulated life testing of outboard sensor components. Dr. Bamford has been involved with independent research projects in the areas of improved stabilization for embedded stabilized systems. He holds patents for a stabilized antenna platform and ruggedized switch.

Upcoming Distinguished Seminars



Alex Lorman

THAYERMAHAN

NOVEMBER 20TH @ 5PM
UConn – ITE 336



Lauren Marshall

Ph.D. Graduate Student - UConn
NUWC

DECEMBER 4TH @ 5PM
URI – Avedisian Hall 240

**Sign Up Now
for
ENGR 3109
Spring 2020
Semester!!!**

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