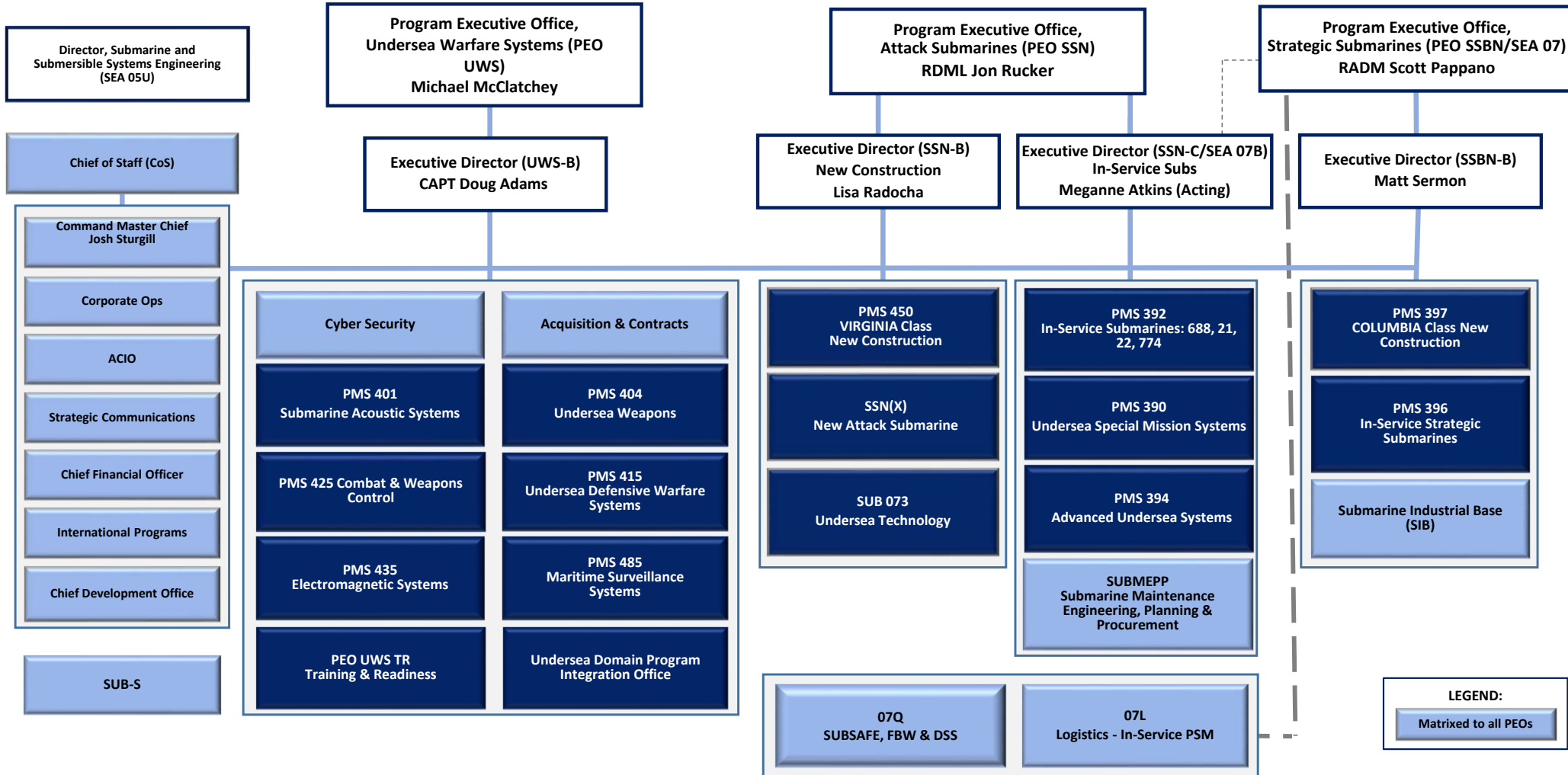


PEO SUB

FY23.1/A SBIR/STTR Topics



Distro A // Team Submarine: PEO UWS, PEO SSN & PEO SSBN



Topic Number: N231-###

Topic Title: Revolutionize Undersea Training Target Motors

Technology Objective: Modernize, innovate, and improve the efficiency of the MK39 EMATT motor that leverages the advancements in printed circuit board (PCB) stators, as well as, the reduction in space, noise, and weight of the motor enabling additional capabilities of the EMATT.

Transition Program: PMS 404, Undersea Weapons

Topic Author: Robert Phillip, NUWC Division robert.j.phillip3.civ@us.navy.mil



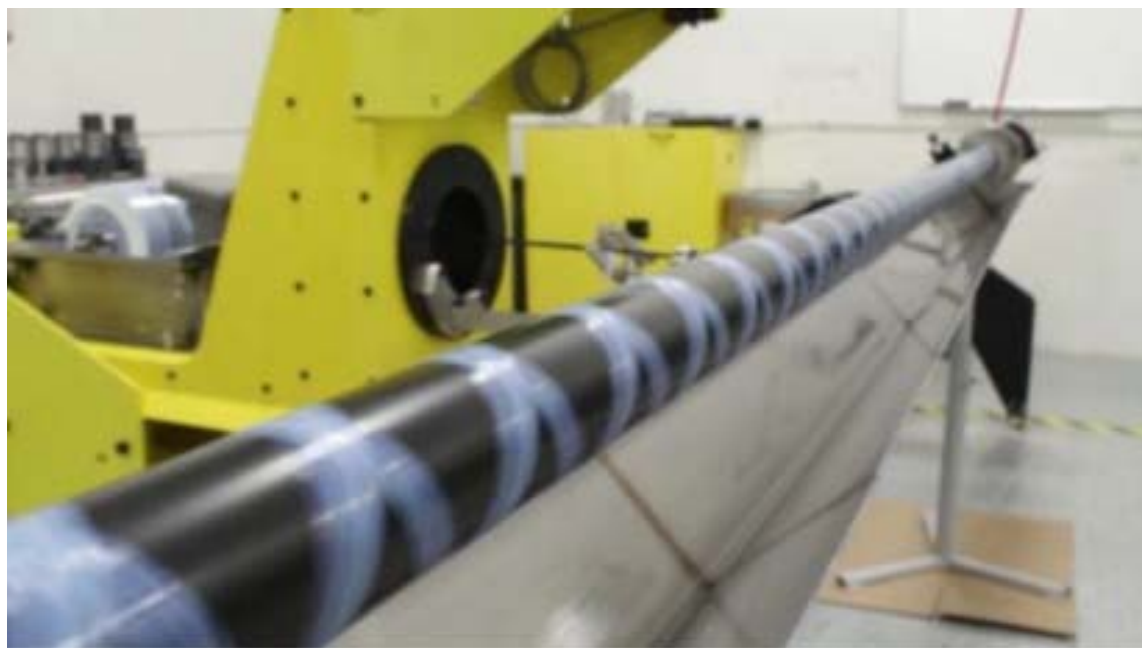
Topic Number: N231-###

Topic Title: Alternative Materials and Fabrication Processes
for US Navy Propulsor Shafting

Technology Objective: Develop low-cost non-traditional materials and repeatable, reliable, efficient, and robust manufacturing processes suitable for large, thick, waterborne propulsor shafting subjected to long-duration complex stress states.

Transition Program: SUB 073, , Advanced Submarine Systems Development

Topic Author: D. J. Pohlit, Paul Coffin, NSWC Carderock, david.j.pohlit.civ@us.navy.mil



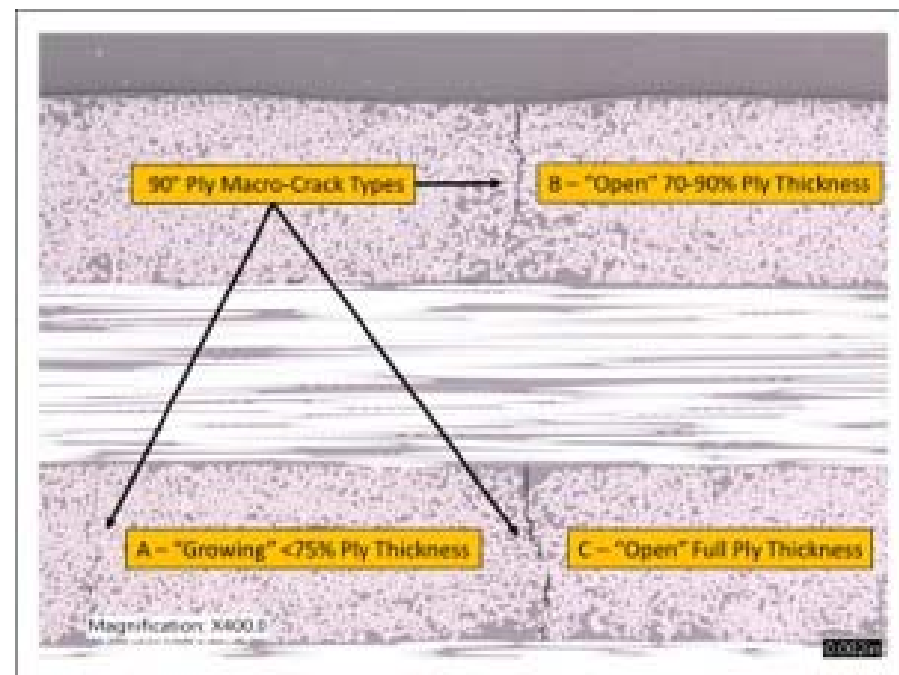
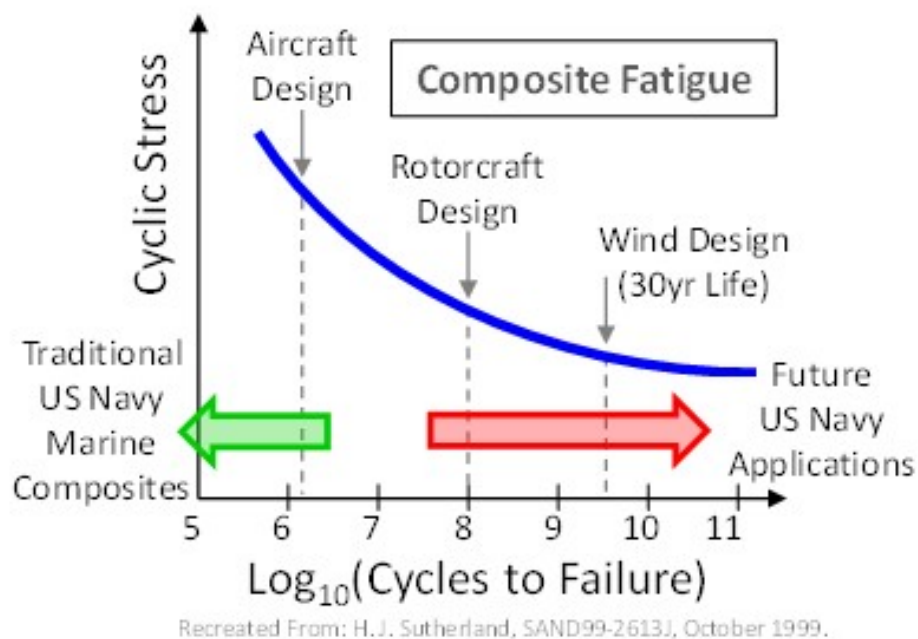
Topic Number: N231-###

Topic Title: Structural Design Process for High-Cycle Fatigue Performance of Composite Materials & Structures

Technology Objective: Develop, execute, and validate methodologies to efficiently establish high-confidence design allowables for high-cycle fatigue performance of composite materials and structures.

Transition Program: SUB073, Advanced Submarine Systems Development

Topic Author: D. J. Pohlit, Paul Coffin, NSWC Carderock, david.j.pohlit.civ@us.navy.mil



Topic Number: N23A-T###

Topic Title: Atmospheric Aerosol Model and Data Collection Over the Marine Boundary Layer for Imaging/RF and Laser Beam Propagation

Technology Objective: Develop a periscope imaging, EW, and HEL beam propagation model over the marine aerosol boundary layer for the integration of propagation modeling software into a system that will investigate absorption and scattering properties of marine aerosols, the interplay between aerosols and turbulence and impact on imaging and EW.

Transition Program: PMS 435, Submarine Electromagnetic Systems Program Office

Topic Author: Dr. Tariq Manzur; NUWC, tariq.manzur@navy.mil

