

School of Marine Science and Ocean Engineering

Graduate Research Symposium

Thursday, May 4, 2023

1:00 pm - Keynote and Oral Presentations

4:15 pm - Poster Presentations and Reception

Holloway Commons, Piscataqua Room

75 Main Street, Durham, NH



1:00 - 1:10 - Welcome

Kai Ziervogel, Research Associate Professor & Chair, SMSOE Education Committee

Diane Foster, Director, School of Marine Science and Ocean Engineering

1:10 - 1:30 - Keynote Presentation

Larry Mayer, Director, Center for Coastal and Ocean Mapping

1:30 - 2:45 - Graduate Student Presentations - Session 1

Motion Control Design for an Uncrewed Underwater Vehicle Based on Nonlinear System Identification - Oguz Oruc, PhD, Mechanical Engineering

An Inside Look at Channeled Whelk (*Busycotypus canaliculatus*) Fishery: Using Underwater Video as a Tool for Investigation into Trap Dynamics, Whelk Feeding Behavior, and Alternative Baits - Mary Munley, MS, Marine Biology

Towards Automated Nautical Chart Compilation - Tamar Nada, PhD, Oceanography

Fine-scale niche modeling growth and disease cover trends of long-term outplanted staghorn corals (*Acropora cervicornis*) in the lower Florida Keys - Glenna Dyson, MS, Oceanography

The Effects of Hatchery Stressors on Growth, Aggression, and Cannibalism of Juvenile Lumpfish - Shelby Perry, MS, Marine Biology

2:45 - 3:00 Break

3:00 - 4:15 - Graduate Student Presentations - Session 2

Wave-Powered Water Pump: Ocean Field Deployment - Chelsea Kimball, MS, Mechanical Engineering

Genomic architecture of local adaptation in a coastal Song Sparrow subspecies - Jonathan Clark, PhD, NRESS

Calculating Rugosity from Structure-from-Motion Models of Complex Habitats - Kindrat Beregovyi, PhD, Computer Science

Ask your Local Oyster Grower about Green Crabs - Kelsey Meyer, PhD, Marine Biology

Temporal variability of light penetration in the summertime Gulf of Maine with implications for satellite ocean color observations - Terence O'Brien, MS, Oceanography

4:15 - 5:45 - Poster Presentations, Reception, and Awards