

CALL FOR SPEAKERS

~~ 2020 MTS Buoy Workshop ~~

Wilmington, North Carolina, April 13-16, 2020

You are invited to present your work (involving buoy: surface, subsurface and peripheral applications) at the **14th MTS Buoy Workshop** during April 13-16, 2020. The Workshop will be held at Hotel Ballast, downtown Wilmington, North Carolina. Our workshop hosts this year are the University of North Carolina at Wilmington (UNCW), Center for Marine Science, Coastal Ocean Research and Monitoring Program (CORMP). We gather to discuss updates on past and present projects (and future), offshore in the deep and shallow water environments, bays, estuaries, ports and harbors and what we expect for the future of buoy and mooring applications.

We will open with an Ice-Breaker on Monday night, April 13th, in Daniels Hall on the campus of Cape Fear Community College, directly adjacent to Hotel Ballast along the Wilmington waterfront. Presentations will be held at Hotel Ballast in the Ballroom, with Exhibits located nearby. The Speaker Program begins at 8 am on Tuesday, April 14th and ends Thursday afternoon, April 16th. Wednesday afternoon will be dedicated to site tours at UNCW's Center for Marine Science and CORMP facilities that are engaged in active buoy work along the coast.

This year's Theme: "Moored Systems for the Future"

Buoy and mooring system developments and advancements to address the needs of a changing world. Areas and topics will include, but are not limited to:

ECOSYSTEMS MONITORING

Coastal processes
Water quality
Harmful algal blooms (HABS)
Marine mammal monitoring
Bottom boundary
Fisheries

LONG-TERM OBSERVING SYSTEMS

IOOS: SECOORA, GCOOS, MARACOOS... etc...
UNC-W CORMP
NOAA: PMEL, NDBC, GLERL and CO-OPS
Large Basin Scaled Climate Monitoring (GMTBA: Atlantic, Indian and Pacific Oceans).
Ocean Observatories Initiative (OOI)
JAMSTEC
Australia - CSIRO, IMOS, AIMS
China State Oceanic Administration (SOA), FIO
Institute of Oceanology, Chinese Academy of Sciences (IOCAS)
National Taiwan Univ., NTU

RELIABILITY AND HARSH ENVIRONMENTS

Through the Air-Sea Interface – It Always Breaks Right Under the Buoy
Cold Climate Systems: Arctic and Antarctic Ice Buoy Systems and Components
Service Life Prediction and Testing of Key Components



POWER

Mooring Power Systems – Prediction, Modeling, Management, and Control

Green Buoy Power Systems – Wind, Solar, Waves, etc.

Marine Hydrokinetics – Systems for Harvesting the Energy of Waves and Currents

Offshore Floating Wind Platforms, their Moorings and Cable Challenges

DATA

Mooring Data Systems: Collection, Storage, and Retrieval – from Seafloor to Surface

Mooring Telemetry – Inductive, WiFi, Acoustic, Optical, Satellite, Cellular, etc.

Shoreside Telemetry – Line of Sight RF, Cell, Satellite, etc.

Adaptive sampling

Instrumenting buoys of opportunity

SENSORS & INSTRUMENTATION

Physical Oceanography, Meteorology, Air-Sea Interaction

Wave measurement

Biology, Chemistry, Geology

Acoustics – Passive Acoustic Marine Mammal (PAM), Vessel Detection, Port Security

MOORING DESIGN

Continuous improvement - lessons Learned from past failures

Hydrodynamic Modeling of Mooring Systems

Operations and maintenance (O&M)

Buoy Mooring Cables and their Terminations

Low-Impact Moorings for Environmentally Sensitive Sites

SYNERGY

Solutions and Experience from Oil Exploration Platforms and Buoy Systems

Docking Systems (AUV, Gliders)

FORMAT: The Speaker Program will be organized on focused topical sessions consisting of 20-minute power-point presentations followed by a question and answer panel discussion.

SUBMISSIONS: Visit the website for a link to submit your abstract online. The deadline for abstract submissions is February 28, 2020. Abstracts submitted by December 21, 2019, will be processed for early review to assist attendees who need additional time to secure travel approvals and visas.

REGISTRATION: Registration is now open. Visit the website to register.