



~~ 2019 MTS International Buoy Workshop ~~

CALL FOR SPEAKERS!

“Buoy Technology for Extreme Environments”

CSIRO Marine Labs, Hobart Australia

April 15-18, 2019

You are cordially invited to join us at the **2019 MTS International Buoy Workshop** which will be held April 15-18, 2019. This year's host is the Commonwealth Scientific and Industrial Research Organization (CSIRO) and our event will be held at the CSIRO Marine Labs, in Hobart Tasmania, Australia.

We will open with an Icebreaker Reception on Monday evening, April 15th at the CSIRO Riverview Room. The Speaker Program will begin at 8:00 AM on Tuesday, April 16th and end at 1:00 PM on Thursday, April 18th. The afternoon of Thursday, April 18th will be dedicated to site tours at local marine research facilities and research vessels (TBD). All presentations will be held in the CSIRO auditorium, with exhibits located in the adjoining Engineering and Technical Facilities building.

Abstracts are due by 5:00 PM GMT on Friday, February 15, 2019*

***Abstracts submitted by December 21, 2018 will be subject to early review for attendees who need additional time to secure travel approvals and visas**

Developments in Moored System Capability and Reliability

It's all about making critical measurements offshore and getting data from the oceans back to shore. Areas of technological focus will include, but not be limited to:

LONG-TERM OBSERVING SYSTEMS

- CSIRO
- IMOS
- JAMSTEC
- NOAA: PMEL and NDBC
- U.S. IOOS Regional Buoy Programs
- NSF Ocean Observatories Initiative (OOI)
- State Oceanic Administration (SOA)

For further information and registration visit:
<http://www.whoi.edu/buoyworkshop/2019/>

RELIABILITY AND HARSH ENVIRONMENTS

- Hydrodynamic Modeling of Mooring Systems
- Compliant Motion Absorbing Elements for Moorings
- Buoy Mooring Cables and their Terminations
- Through the Air-Sea Interface – It Always Breaks Right Under the Buoy
- Cold Climate Systems: Arctic and Antarctic Ice Buoy Systems and Components
- Low-Impact Moorings for Environmentally Sensitive Sites

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, Acoustic, Optical, etc.
- Shore Telemetry – Line of Sight RF, Cell, Satellite, etc.

SENSORS & INSTRUMENTATION

- Physical Oceanography, Meteorology, Air-Sea Interaction
- Biology, Chemistry, Geology
- Acoustics – Passive Acoustic Marine Mammal (PAM), Vessel Detection, Port Security

MOORING DESIGNS

RELATED TOPICS

- Applicable Solutions and Experience from Offshore Oil Exploration Platform and Buoy Systems
- Docking Systems (AUV, Gliders)
- Air-Sea Deployment, Servicing and Retrieval, Service Life Prediction and Testing of Key Components
- Condensed Systems (same data, more sensors)
- Drones and Buoys

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.

