

2011 OCEAN POLLUTION: FROM TECHNOLOGY TO MANAGEMENT AND POLICY

April 13-14, 2011

Lido Beach Resort

Sarasota, FL

This program will look at the needs and gaps among the various forms of pollution that affect our oceans and coasts. Topics will include: coastal pollution, marine debris, harmful algal blooms, shipping risks, leak detection, and more. The goal of the workshop is to address aspects of policy/management, restoration, lessons learned, and mitigation/detection. It will feature a half-day session devoted to oil spill technology.

Participants will hear from speakers as they demonstrate innovative strategies for assessing and mitigating ocean pollution, while also focusing on technological advancements that can lead to change. In addition, participants will help develop an ocean pollution scorecard that highlights the top technology gaps in each topic presented.

PROGRAM AGENDA

Wednesday, April 13th

7:00 AM: Registration Opens & Continental Breakfast – Royal Banyan Room, 8th Floor

8:00 AM – 8:30 AM: Welcome and Scorecard Introduction

- Jerry Boatman (MTS President)
- Jake Sobin and Ryan Morton (MTS Ocean Pollution Chair and Vice Chair and TechSurge Program Committee)

8:30 AM – 12:00 PM: Presentations (Jake Sobin, Moderator)

Overview of FL Gulf Coast Ecology and the Challenges and Stressors of Coastal Pollution

- Dr. Ernest D. Estevez, Director Mote Center for Coastal Ecology

Physical oceanography: Coastal Ocean Observing and Modeling

- Dr. Robert H. Weisberg, Distinguished Professor Physical Oceanography - USF

Florida Coastal and Ocean Policy Report Card

- Lindsey Pickel, Coordinator for the Florida Coastal and Ocean Coalition

Coastal Numeric Criteria for Coastal Waters

- Dr. Blake A. Schaeffer, Research Ecologist, EPA NHEERL, Gulf Ecology Division

Demonstration Project to Implement qPCR for Beach Monitoring

- Dr. John F. Griffith, Southern California Coastal Water Research Project

Beach Conditions Report™

- Dr. Barbara Kirkpatrick, Manager of Mote's Environmental Health Program

12:00 – 1:30 PM: Networking Lunch (USCG Invited to Talk)

1:30 PM – 5:00 PM: Presentations and Closing Day Discussion (Drew Michel, Moderator)

Using an Autonomous Underwater Vehicle to Map and Sample a Subsurface Oil Plume in the 2010 Gulf of Mexico Oil Spill

- Dr. Yanwu Zhang, Senior Research Specialist, Monterey Bay Aquarium Research Institute
- In Situ Characterization of Subsurface Chemical Distributions using Underwater Mass Spectrometry***

- Dr. R. Timothy Short, Manager, Chemical Sensor Group, SRI International
- Natural Resource Mapping Technology Deployed to Monitor Spill Impacts***

- Dr. Alfredo Prelat, Sr. VP and Chief Scientist Sr., Neos GeoSolutions, Inc.

Understanding the Gulf of Mexico Large Marine Ecosystem

- Dr. Steve Murawski (Invited), Population Dynamics/Marine Ecosystem Analysis Professor and Downtown Progress-Peter Betzer Endowed Chair – USF

Containment Oil Booms

- Dr. Kaufui Vincent Wong, Professor in the Department of Mechanical and Aerospace Engineering in the College of Engineering at the University of Miami

Spill Response and Restoration - The Helix HFRS System

- Helix Wells Ops (Speaker TBD)

Closing Day Discussion

- Drew Michel, MTS President-Elect and Chair of the MTS ROV Committee

6 PM – 7:30 PM: Welcome Reception

Thursday, April 14th

7:30 AM: Registration Opens & Continental Breakfast - Royal Banyan Room, 8th Floor

8:30 AM – 12:00 PM: Innovative Strategies for the Future (Jake Sobin, Moderator)

DNV's Triple-E program: uses on "normally operating" commercial vessels

- D. Braxton Scherz, Director of Business Development, DNV (Americas), Inc.

Macondo Utilisation of Sonardyne Wideband Acoustics for Operation in Crowded and High Noise Environments

- Shaun Dunn, Engineering Business Development Manager, Sonardyne International Ltd

On the feasibility of Hydrocarbon Sniffers in Pollution Monitoring and Prevention

Daniel Esser, Managing Director and Co-Founder of CONTROS Systems & Solutions GmbH

The Robotic Fish That Could Direct Marine Life Away from Danger

- Dr. Maurizio Porfiri, Assistant Professor of Engineering, Polytechnic Institute of NYU

11:00 AM – 12:00 PM: Scorecard Development and Discussion

12:00 – 1:30 PM: Networking Lunch

1:30 – 3:30 PM: Marine Debris Panel Discussion

Scheduled Panelists

- Andrew Bouchard, CIV NSWC, PCD, Research Engineer, Naval Surface Warfare Center, Panama City, FL
- Jason Price, CIV NSWC, PCD, Research Engineer, Naval Surface Warfare Center, Panama City, FL
- Peter Murphy, Regional Coordinator - Alaska , NOAA Marine Debris Program / Genwest, Office of Response and Restoration
- Bill Pichel, NOAA Satellite Oceanography & Climatology Division Marine Ecosystems and Climate Branch, Research Scientist

3:30 – 4:00 PM: Concluding Remarks

Coming Soon!

MTS Journal: From Technology to Management and Policy: Innovative Strategies for Assessing and Mitigating Ocean and Coastal Pollution.

Guest editors: Jake Sobin, Chair, MTS Ocean Pollution Professional Committee and The Baldwin Group @ NOAA Coastal Services Center; Ryan Morton, Vice Chair, MTS Ocean Pollution Professional Committee and Det Norske Veritas

With last year's catastrophic oil spill in the Gulf, there is no better time to highlight the state of technology related to ocean pollution. This special issue of the *MTS Journal* underlines innovative strategies and technologies for assessing and mitigating ocean pollution and how technological advancements can lead to change (i.e., management and policy changes/improvements). While it's important to focus on oil spill technology, we still have to remember that a multitude of ocean pollution sources span the globe. This special issue of the *MTS Journal* addresses the array of ocean pollution sources with articles and commentaries on topics such as detection and mitigation of ocean debris; runoff ocean pollution; shipping industry ocean pollution; and innovative strategies for cleanup and recovery, mitigation, and environmental restoration related to oil spills.

