



**EBC Ocean and Coastal Resources Program:
Working in a Noisy Underwater Environment**

Thursday, May 5, 2016

Brown Rudnick LLP
Boston, Massachusetts

AGENDA

- 8:00 a.m. **Welcome: Payson Whitney**, Chair, EBC Ocean and Coastal Resources Committee
Vice President, ESS Group, Inc.
John Wadsworth, Partner, Brown Rudnick LLP
- Introduction: **Ann Pembroke**, Program Chair and Moderator
Vice President, Normandeau Associates, Inc.
- 8:30 a.m. **Endangered Species Act, Section 7: Addressing effects of underwater noise on listed species**
- Zachary Jylkka, Fisheries Biologist, Protected Species Branch
National Oceanic and Atmospheric Administration
- 9:00 a.m. **Can You Hear Me Here? Managing Acoustic Habitat in U.S. Waters**
- Leila Hatch, Ph.D., Marine Ecologist, Stellwagen Bank National Marine Sanctuary
National Oceanic and Atmospheric Administration
- 9:30 a.m. **Lessons Learned from Monitoring the Environmental Effects of Construction of the First Offshore Wind Farm in the U.S.**
- James Miller, Sc.D., P.E., Professor, Department of Ocean Engineering
University of Rhode Island
- 10:00 a.m. **Panel Discussion**
- Panel Moderator: **Ann Pembroke**, Normandeau Associates, Inc.
- Panel members:
- Zachary Jylkka, NOAA
 - Leila Hatch, NOAA
 - James Miller, University of Rhode Island
- 10:30 a.m. **Adjourn**

PROGRAM CHAIR

Ann Pembroke, Vice President

Normandeau Associates, Inc.

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Ann Pembroke is a marine biologist and Vice President at Normandeau Associates. Specializing in impact assessment on marine resources, she has assisted with project development, permitting, and monitoring for offshore wind projects, submarine pipelines and transmission projects, deepwater ports, wastewater treatment plants, as well as coastal development. She has also worked on several projects directly for BOEM assisting them identify appropriate research questions on subjects such as electromagnetic field impacts, underwater noise, and habitat values of shoal features. Through this work she has developed an appreciation for the challenges presented by evaluating the effects of human activities on marine resources dependent on communication through sound.

SPEAKERS

Leila T. Hatch, Ph.D., Marine Ecologist

Stellwagen Bank National Marine Sanctuary

National Oceanic and Atmospheric Administration

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Dr. Leila Hatch is a marine ecologist working for the US National Oceanic and Atmospheric Administration (NOAA). Dr. Hatch is based at the Gerry E. Studds Stellwagen Bank National Marine Sanctuary, a marine protected area managed by NOAA off the coast of Massachusetts. At Stellwagen, her research focuses on acoustically-sensitive marine species and the impacts of underwater noise. In addition, she provides technical support on noise science and policy for all NOAA-managed sanctuaries. Finally, she works for NOAA to coordinate and improve agency-wide noise impacts science and management activities. Dr. Hatch came to NOAA in 2006 after a fellowship working in the US Congress on marine mammal and fisheries legislation for the House of Representatives' Resources Committee. She received her B.S. from Yale College and her PhD from Cornell University.

Zachary Jylkka, Fisheries Biologist

Protected Resources Division, Greater Atlantic Regional Fisheries Office

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Zach Jylkka is a Fisheries Biologist at NOAA's Greater Atlantic Regional Fisheries Office (GARFO) in Gloucester, MA. Zach works in the Protected Resources Division, and focuses on section 7 consultations under the Endangered Species Act. Before joining NOAA in 2014, Zach attended UC Santa Barbara's Bren School of Environmental Science & Management, where he completed his master's thesis on the feasibility of offshore wind development on CA's Central Coast. He also holds a BA from Bates College.

James Miller, Sc.D., P.E., Professor

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Dr. Miller is a Professor of Ocean Engineering and Oceanography at the University of Rhode Island. He conducts research and teaches courses in acoustical oceanography, sonar systems engineering, acoustic signal processing, underwater acoustics, marine bio-acoustics, ocean data analysis, modeling, and underwater vehicle design. His interests include the acoustics of ocean sediments, 3D acoustic propagation in shallow water and the effects of sea surface waves on acoustic normal modes. He has done work on the effects of ocean noise on marine animals.

He is a registered Professional Engineer in the State of Rhode Island.

Dr. Miller co-founded FarSounder, Inc. of Warwick, Rhode Island with URI alumnus Matt Zimmerman.

Upcoming EBC Programs

- May 5: Young Professionals Program – Sustainability at the City Level
- May 6: Climate Change Committee Meeting with Guest Speaker Ned Bartlett, MA EOEEA
- May 10: Breakfast Program with MA DCR Commissioner Leo Roy
- May 12: NH Chapter Program – EPA Brownfields Funding a Redevelopment Catalyst
- May 12: Site Remediation Program – Contaminants of Emerging Concern
- May 13: Climate Change Series – Science, Modeling, and Implications of Sea Level Rise
- May 18: Evening Program with Colonel Barron, U.S. Army Corps of Engineers
- May 26: Site Remediation Meeting with James Byrne and Frank Gardner, U.S. EPA
- May 26: Connecticut Chapter Summer Gathering at City Steam Brewery, Hartford CT
- **June 16: EBC 23rd Annual EBEE Awards Dinner & Celebration**
- August 11: EBC's 22nd Annual Summer Garden Party