



6TH ANNUAL
CAPE COASTAL CONFERENCE
DECEMBER 4-5, 2018



AGENDA

Day 1 – Tuesday, December 4th – Water Quality

- 8:00 – 8:50 Sign-In and Morning Networking
- 8:50 – 9:00 Transition to Main Room
- 9:00 – 9:10 Welcome and Opening Comments
Tonna-Marie Rogers, Acting Manager, Waquoit Bay National Estuarine Research Reserve

OPENING PLENARY

Restoring water quality and curbing nutrient pollution remains a pressing challenge and one of the most important environmental priorities for Cape Cod towns. Shellfish aquaculture is listed in the Cape Cod 208 Area-Wide Management Plan as one of the non-traditional approaches that could be utilized among the mix of solutions that towns could employ. The morning session will give attendees a taste of some of the shellfish aquaculture efforts underway in the region – goals, results and lessons from these projects. Updates will also be provided on local research aimed at addressing some of the important science questions that can help to inform shellfish aquaculture and water quality management efforts.

- 9:10 - 9:20 Meet our Shellfish – A Brief Primer on Local Species of Interest
Christina Lovely, Town of Falmouth
- 9:20 – 9:45 An Overview of Shellfish Aquaculture Efforts Happening State-wide and Key Regulations Governing Shellfish Operations
Christopher Schillaci, Division of Marine Fisheries
- 9:45 – 10:10 Town of Mashpee Case Study – *Rick York & Ashley Fisher*
- 10:10 – 10:30 Town of Falmouth Case Study – *Roy (Chuck) Martinsen*
- 10:30 – 10:55 **Coffee Break** (Visit Exhibitor Tables)
- 10:55 – 11:15 Town of Bourne Case Study – *Steve Kirk, The Nature Conservancy*
- 11:15 – 11:35 Mashpee Wampanoag Tribe Case Study – *Chuckie Green*
- 11:35 – 12:00 Town of Wellfleet Case Study – *Alex Hay*
- 12:00 – 1:00 **Lunch** – provided (Visit Exhibitor Tables)
- 1:00 – 1:20 Dynamics in Using Shellfish Harvest for Nitrogen Mitigation
Joshua Reitsma, Barnstable County Cooperative Extension

1:20 – 1:40	Testing Different Aquaculture Growing Methods to Inform Water Quality Management – <i>Dr. Daniel Rogers, Stonehill College</i>
1:40 – 1:55	The Massachusetts Shellfish Initiative: Developing a State-Wide Plan for Maximizing Economic, Environmental, and Social Benefits of Shellfish Resources in Massachusetts <i>Sean McNally, UMass Boston & Scott Soares, Boston Bay Consulting</i>
1:55 – 2:25	Extended Q&A & Large Group Discussion with Panel of Presenters <i>(Panelists: Brian Dudley, DEP, Joshua Reitsma, Barnstable County Extension, Daniel Rogers, Stonehill College and Christopher Schillaci, DMF)</i>
2:25 – 2:45	Coffee Break (<i>Visit Exhibitor Tables</i>)
2:45 – 3:30	Watershed Permit Case Study – <i>Mike Giggey, Carole Ridley and Brian Dudley</i>
3:30 – 3:35	Transition to Break-Out Sessions
3:35 – 5:00	Concurrent Break-Out Sessions

Session 1: Harmful Algal Blooms & Stormwater

- Cyanobacterial Ecology, Links to Human Health Risks, and Results from Monitoring Efforts on Cape Cod - Dr. Jim Haney, University of New Hampshire
- Part 1 Improving Water Quality in the Three Bays through Stormwater Management – *April Wobst, Restoration Ecologist, Association To Preserve Cape Cod*
- Part 2 Design and Construction of Stormwater BMPs in Three Bays – *Michelle West, Senior Water Resources Engineer, Horsley Witten Group*

Session 2: Contaminants of Emerging Concern

- Sources, Transport, Exposure and Effects of Poly- and Perfluoroalkyl Substances: A Program Update Focusing on Cape Cod Efforts – *Alyson Mccann, Water Quality Program Coordinator, University of Rhode Island, Cooperative Extension, Department of Natural Resources Science*
- The Occurrence of Poly and Per Fluoro Alkyl Substances (PFAS) in Cape Cod Groundwater - *Tom Cambareri, Water Resources Program of the Cape Cod Commission*
- Geochemistry of PFAs from historical fire-training activity in surface and groundwater on Cape Cod – *Bridger Rule, Harvard University*
- Strategies for removing contaminants of emerging concern at municipal wastewater treatment facilities – *Marc Drainville, Principal, GHD*

Session 3: Onsite Septic Systems

- Testing Onsite Septic Systems in West Falmouth Harbor - *Maureen Thomas, Buzzards Bay Coalition - West Falmouth Harbor Nitrogen-Reducing Septic System Demonstration Project*
- An Overview of Onsite Septic System Performance and Update on Research on Promising New Approaches - *George Heufelder, Barnstable County*

5:00 pm Wrap-up & Adjourn

Day 2 - Wednesday, December 5th - Coastal Resilience

- 8:00 – 8:50 Sign-in & Morning Networking
- 8:50 – 9:00 Transition to Main Room
- 9:00 – 9:10 Welcome & Opening Comments
Tonna-Marie Rogers, Acting Manager, Waquoit Bay National Estuarine Research Reserve
- 9:10 – 10:10 When the Storms Just Kept Coming: Mining Resilience Lessons for the Region from this Past Winter – Panel Discussion
Panelists:
- Emergency Management & Regional Coordination
Sean O'Brien, Barnstable County
 - Public Works and Safety – *Ray Jack, DPW Director, Town of Falmouth*
 - Shoreline Changes and Community Experiences
Robert Duncanson, Town of Chatham
 - Views from the Utilities Sector – *Matt Waldrip, Senior Specialist, Eversource Energy*
 - Using Flood Modeling for Preparedness Planning
Steve Mague, Center for Coastal Studies
- 10:10 – 10:20 A New Flood Mapping & Preparedness Project
Shannon Hulst Jarbeau, CRS & Floodplain Coordinator, Barnstable County/Cape Cod Cooperative Extension & Woods Hole Sea Grant
- 10:20 – 10:40 **Coffee Break** (*Visit Exhibitor Tables*)
- 10:40 – 11:30 State and Federal Guidance for Permitting Coastal Resilience Projects: A Panel Discussion with Regulatory Experts. Panelists will present practical experiences and perspectives related to use of living shorelines for shoreline stabilization
Panelists:
- *Julia Knisel & Rebecca Haney – MA Office of Coastal Zone Management*
 - *Kathryn Ford – Division of Marine Fisheries*
 - *Lealdon Langley – MA Department of Environmental Protection*
 - *Christine Jacek – U.S. Army Corps of Engineers*
- 11:30 – 12:00 Coastal Protection & Resiliency
Lealdon Langley, Department of Environmental Protection
- 12:00 – 1:00 **Lunch – provided** (*Visit Exhibitor Tables*)
- 1:00 – 1:20 Massachusetts Municipal Vulnerability Program: Empowering Communities to Address Climate Resilience from Planning to Implementation
Margot Mansfield, Climate Change & Coastal Hazards Analyst
- 1:20 – 2:05 Protect, Accommodate or Retreat? Integrating Adaptation Strategies and Ecosystem Services in the Cape Cod Coastal Planner
Jennifer Clinton, Special Projects Coordinator, Cape Cod Commission & April Wobst, Restoration Ecologist, Association to Preserve Cape Cod

2:05 – 2:15	Table Discussion
2:15 – 2:30	Coffee Break
2:30 – 3:50	Planning for Marsh Resilience, Ecosystem Changes, and Habitat Restoration in a Changing Climate <ul style="list-style-type: none"> • Innovative use of SLAMM to project wetland changes due to tidal restoration to guide adaptive management decisions for the Herring River Estuary <i>Elise Leduc, Woods Hole Group</i> • Coastal Zone Soil Survey - <i>Maggie Payne</i> • Marsh Migration Opportunities – <i>Steve Smith, Cape Cod National Seashore</i> • Update on Results from the NERRS Salt Marsh Thin Layer Placement Experiment & Crab Research - <i>Megan Tyrrell, Research Coordinator, Waquoit Bay Reserve</i>
3:50	Wrap-Up & Evaluation
4:00 pm	Adjourn

**Agenda subject to minor modification.*

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