



## 5TH ANNUAL CAPE COASTAL CONFERENCE

# RESILIENT CAPE?

PREPARE • ADAPT • RESTORE  
AGENDA

DECEMBER 5 & 6, 2017

HYANNIS RESORT AND CONFERENCE CENTER



[WWW.WAQUOITBAYRESERVE.ORG](http://WWW.WAQUOITBAYRESERVE.ORG)

# Agenda

PREPARE

## DAY ONE

DECEMBER 5, 2017

MORNING SESSION  
9:00AM - 12:30PM

### MORNING SESSION

WELCOME, INTRODUCTIONS AND OPENING COMMENTS

**FRAMING COASTAL RISK AND RESILIENCE: UNDERSTANDING WHAT'S AT STAKE AND PREPARING FOR THE FUTURE** - Dr. Erika Lentz, Research Geologist, U.S. Geological Survey Coastal and Marine Science Center, Woods Hole

**THE RESILIENT CAPE COD PROJECT** - Heather McElroy, Cape Cod Commission

**UNDERSTANDING THE LINKS BETWEEN DEVELOPMENT DECISIONS, PLANNING, AND COMMUNITY RESILIENCE: WHAT SANDY TAUGHT NEW JERSEY AND TRANSFERABLE LESSONS FOR CAPE COD** - David Kutner, Planning Manager, NJ Future

**INVESTING IN COASTAL ECOSYSTEMS FOR RESILIENT COMMUNITIES**  
Patty Doerr, Director of Coastal and Marine Programs, The Nature Conservancy in New Jersey

**HARVEY, IRMA, MARIA, OH MY! WHAT IF IT HAPPENED HERE?**  
A Panel Discussion on Flood Risk, Vulnerability, and How Cape Communities Can Better Prepare to Deal with Impacts of Storms & Flooding

- PANELISTS:**
- Flood Risk – David Vallee, Hydrologist-in-Charge, NOAA/NWS/Northeast River Forecast Center
  - Floodplain Management - Joy Duperault, State Floodplain Manager, Director of Flood Hazard Management Program, MA Department of Conservation and Recreation
  - Planning - Ryan Bennett, Town Planner, Town of Brewster
  - Public Works & Engineering - Rob Steen, Asst. Director, Dept. of Public Works, Town of Barnstable
  - Emergency Management - Phil Burt, Emergency Management Preparedness Assistant, Barnstable County Dept. of Health and the Environment and Regional Emergency Management Committee
  - Insurance - John Vokey, Risk Management Specialist – Murray & McDonald, Insurance Company
  - Business Readiness – Wendy Northcross, Exec. Director, Cape Cod Chamber of Commerce

LUNCH (PROVIDED)  
12:30PM - 1:30PM

### AFTERNOON SESSION

**SEA LEVEL RISE – LATEST RESEARCH FINDINGS AND IMPLICATIONS FOR CAPE COD**  
Dr. Jerry Mitrovica, Harvard University

#### CONCURRENT SESSIONS

**BEND NOT BREAK: MAKING ROOM TO ADAPT IN A CHANGING CLIMATE**

##### SESSION 1 - ALL ADAPTATION IS LOCAL

**Town of Brewster Case Study** – Developing a Consensus-Based Coastal Adaptation Strategy and Next Steps - Pat Hughes, Marine Policy Director, Center for Coastal Studies

**Martha's Vineyard Case Study** Squibnocket Parking Lot and Access Way Coastal Resilience Project - Chuck Hodgkinson, Project Manager

**Challenges and Lessons Learned from Planning and Implementing Local Adaptation Projects**  
Massachusetts Office of Coastal Zone Management

##### SESSION 2 - USING NATURAL AND NATURE-BASED INFRASTRUCTURE FOR COASTAL PROTECTION

**Can We Protect New England Coasts with Living Shorelines?** Part I: State of the Practice - Why, Who, How and What's Next – Steve Kirk, The Nature Conservancy

**Can We Protect New England Coasts with Living Shorelines?** Part II: Design and Use of Profiles and the Applicability Index and Local Case Studies – Elise LeDuc, Woods Hole Group

**Key Considerations for Living Shoreline Projects** - Seth Wilkinson, Restoration Ecologist, President, Wilkinson Ecological Design, Inc.

AFTERNOON SESSION  
1:30PM - 5:00PM

DAY ONE  
CONTINUED

DECEMBER 5, 2017

AFTERNOON SESSION

5:00PM - ADJOURN

## DAY TWO

DECEMBER 6, 2017

9:00AM - 12:30PM

#### CONCURRENT SESSIONS CONTINUED

##### SESSION 3 - COASTAL WETLANDS ON THE FRONTLINES

**Opportunities for Salt Marsh Migration on Cape Cod** - Dr. Jo Ann Muramoto, Association to Preserve Cape Cod

**Carbon Storage and Greenhouse Gas Fluxes in Local Tidal Wetlands: Implications for Climate Mitigation and Coastal Resilience** – Dr. Kevin Kroeger, U.S. Geological Survey Coastal and Marine Science Center, Woods Hole

**Increasing Salt Marsh Resilience in the Face of Sea Level Rise - Investigating Thin Layer Deposition (Sediment Augmentation) as A New Management Technique** – Dr. Meagan Tyrrell, Research Coordinator, Waquoit Bay National Estuarine Research Reserve

##### SESSION 4 - EXPLORING MARINE RENEWABLE ENERGY OPTIONS

**Overview of Marine Renewable Energy Activities in Massachusetts** – Bruce Carlisle, Director, Massachusetts Office of Coastal Zone Management

**The Cape Cod Canal and Muskeget Channel Tidal Turbine Projects** – John Miller, Executive Director, Marine Renewable Energy Collaborative of New England

**Getting Projects Over the Finish Line** – Local Case Studies

##### BEYOND CLIMATE AND WEATHER DATA: INTEGRATING BROADER SOCIAL, ECONOMIC AND COMMUNITY ISSUES INTO LONG-TERM RESILIENCE PLANNING

- **The Cape Cod Blue Economy Project, Phase 2: Action!** – Leslie-Ann McGee, Cape Cod Chamber of Commerce
- **How Do We Meet Housing Needs Whilst Considering Wise Floodplain Management and Changing Risks?** – Heather Harper, Community Design and Affordable Housing Specialist, Cape Cod Commission
- **Sharks on the Cape – Feeding Research Into A Bigger Conversation on Ecosystem Dynamics & Community Needs** - Megan Winton, Researcher, SMAST, UMass Dartmouth

RESTORE

WELCOME AND OPENING REMARKS –  
HEALTHY ECOSYSTEMS SUPPORT RESILIENT COASTAL COMMUNITIES

**ENHANCING COMMUNITY RESILIENCE BY RESTORING DEGRADED ECOSYSTEMS: RESTORATION NEEDS AND OPPORTUNITIES ON THE CAPE** - April Wobst, Restoration Ecologist & Director of the Restoration Center, Association to Preserve Cape Cod

**CASE STUDY: THE COONAMASSETT RIVER RESTORATION PROJECT** - Betsy Gladfelter, Project Coordinator and Conservation Commissioner, Town of Falmouth

**CASE STUDY: THE MUDDY CREEK RESTORATION PROJECT** - Dr. Robert Duncanson, Director of Health and Natural Resources, Town of Chatham

**USING ECOSYSTEM ASSESSMENTS TO GUIDE DEVELOPMENT OF COASTAL RESILIENCE STRATEGIES - PLEASANT BAY CASE STUDY** – Owen Nichols, Director, Marine Fisheries Research, Center for Coastal Studies

**THE VALUE OF LONG-TERM MONITORING FOR GUIDING RESTORATION EFFORTS – WARMING TRENDS AND WATER QUALITY** – Jennie Rheuban, Research Associate III, Woods Hole Oceanographic Institution

**POND RESTORATION AND ELIMINATION OF CYANOBACTERIA BLOOMS** - Rick York, Director, Department of Natural Resources, Town of Mashpee

**RESTORING WATER QUALITY THROUGH IMPROVED STORMWATER MANAGEMENT – THE CAPE COD STORMWATER COALITION** – Dr. Robert Duncanson, Town of Chatham

ADAPT

# Partner Organizations



WAQUOIT BAY  
NATIONAL  
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WAQUOIT BAY RESERVE  
FOUNDATION  
*Friends of the Waquoit Bay Reserve*  
www.waquoitbayreservefoundation.org  
waquoitbayreservefoundation@gmail.com



CAPE COD  
COMMISSION



# Exhibitors



Engineers | Environmental Specialists



*Afternoon Marsh - Kathryn Kleecamp*  
[www.SandwichArt.com](http://www.SandwichArt.com)

