



## 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

## DAY ONE

DECEMBER 5, 2017

9:00AM - 5:00PM

### 9:00AM-9:15AM - WELCOME, INTRODUCTIONS AND OPENING COMMENTS

Tonna-Marie Rogers, Coastal Training Program Coordinator  
Waquoit Bay National Estuarine Research Reserve

9:15AM-9:55AM - 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

9:55AM-10:25AM - 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

10:25AM-10:45AM - INVESTING IN COASTAL ECOSYSTEMS FOR RESILIENT COMMUNITIES  
Patty Doerr, Director of Coastal and Marine Programs, The Nature Conservancy in New Jersey

### COFFEE BREAK - 10:45AM- 11:15AM

### 11:15AM-12:30PM - 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 & MacDonald, Insurance Company
- Business Readiness – Wendy Northcross, Exec. Director, Cape Cod Chamber of Commerce

LUNCH (PROVIDED)

12:30PM - 1:30PM

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

### CONCURRENT SESSIONS (1:30PM - 2:45PM) Each Session has three 20 minute presentations.

#### SESSION 1

##### ORLEANS A & B

#### ALL ADAPTATION IS LOCAL

**Town of Brewster Case Study** – Developing a Consensus-Based Coastal Adaptation Strategy and Next Steps - Pat Hughes, Chair, Brewster Coastal Committee

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

**Challenges and Lessons Learned from Planning and Implementing Local Adaptation Projects**  
Steve McKenna, Regional Coordinator, Cape Cod & Islands, MA Office of Coastal Zone Management

#### SESSION 2

##### OSTERVILLE B

#### 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.

#### SESSION 3

##### OSTERVILLE A

#### 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. Megan Tyrrell, Research Coordinator, Waquoit Bay NERR

#### SESSION 4

##### CENTERVILLE A & B

#### 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

**Working to Get Projects Over the Finish Line** – Vineyard Wind Case Study

PREPARE

ADAPT

**DAY ONE  
CONTINUED**

**DECEMBER 5, 2017**

**5:00PM - ADJOURN**

**COFFEE BREAK - 2:45PM - 3:05PM**

**3:05PM-3:45PM - SEA LEVEL RISE – LATEST RESEARCH FINDINGS AND IMPLICATIONS FOR CAPE COD**  
Dr. Jerry Mitrovica, Harvard University

**3:45PM-4:05PM - THE RESILIENT CAPE COD PROJECT**  
Heather McElroy, Natural Resources/Land Protection Specialist, Cape Cod Commission

**4:05PM-5:00PM - 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

**DAY TWO**

**DECEMBER 6, 2017**

**9:00AM - 12:30PM**

**12:30PM - ADJOURN**

**9:00AM-9:15AM - WELCOME AND OPENING REMARKS**  
Tonna-Marie Rogers, Coastal Training Program Coordinator  
Waquoit Bay National Estuarine Research Reserve

**9:15AM-9:40AM - 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

**9:40AM-10:00AM - CASE STUDY: THE COONAMASSETT RIVER RESTORATION PROJECT**  
Betsy Gladfelter, Project Coordinator and Conservation Commissioner, Town of Falmouth

**10:00AM-10:20AM - CASE STUDY: THE MUDDY CREEK RESTORATION PROJECT**  
Dr. Robert Duncanson, Director of Health and Natural Resources, Town of Chatham

**COFFEE BREAK - 10:20AM- 10:50AM**

**10:50AM-11:10AM - USING ECOSYSTEM ASSESSMENTS TO GUIDE DEVELOPMENT OF COASTAL RESILIENCE STRATEGIES - PLEASANT BAY CASE STUDY**  
Owen Nichols, Director, Marine Fisheries Research, Center for Coastal Studies

**11:10AM-11:35AM - THE VALUE OF LONG-TERM MONITORING FOR GUIDING RESTORATION EFFORTS – WARMING TRENDS AND WATER QUALITY**  
Jennie Rheuban, Research Associate III, Woods Hole Oceanographic Institution

**11:35AM-11:55AM - POND RESTORATION AND ELIMINATION OF CYANOBACTERIA BLOOMS**  
Rick York, Director, Department of Natural Resources, Town of Mashpee

**11:55AM-12:15PM - RESTORING WATER QUALITY THROUGH IMPROVED STORMWATER MANAGEMENT – THE CAPE COD STORMWATER COALITION**  
Dr. Robert Duncanson, Director of Health and Natural Resources, Town of Chatham

**12:15PM-12:30PM - WRAP-UP & EVALUATION**

**RESTORE**



# Partner Organizations



WAQUOIT BAY  
NATIONAL  
ESTUARINE  
RESEARCH  
RESERVE



WAQUOIT BAY RESERVE  
FOUNDATION  
*Friends of the Waquoit Bay Reserve*  
www.waquoitbayreservefoundation.org  
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CAPE COD  
COMMISSION



# Exhibitors



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

