



# Coastal Resiliency and the Real Estate Industry

Professional Development Seminar for Realtors

**PLEASE JOIN US!**

**Eastham Public Library, Greg Turner Room**

190 Samoset Road Eastham, MA 02642

**Friday May 3, 2019**

**10:00 am -12:30 pm**

There is a silent increase on the march in our coastal communities and impacts from it are adding up—big time! It is an increase in the risks we face from storms, flooding, erosion, sea level rise, and a changing climate. These risks have associated environmental, economic and even psychological costs—costs which are escalating as the storms from 2018 that rocked different states and Cape Cod so vividly demonstrated. These risks also affect key decisions people make including where to live and where to buy and rent property, which in turn have implications for the real estate industry. Today there is growing emphasis nationwide on increasing coastal resilience, i.e. the ability of people and communities to better prepare for, respond to, and recover from disruptive events. This seminar aims to build understanding of realtors of this topic and unpack what coastal resilience means for the real estate sector.

#### **In this seminar we will:**

- highlight coastal risks we face on Cape Cod and how and why our vulnerability is increasing
- discuss effective ways to communicate about risks like flooding and erosion
- discuss what can be done to enhance resilience
- highlight what is being done from a regional level to provide communities with tools and information to better prepare
- share relevant information and planning resources that could be useful to realtors in their work

#### **Presenters**

**Greg Berman**, Coastal Processes Specialist,  
Woods Hole Sea Grant & Cape Cod  
Cooperative Extension

**Shannon Hulst Jarbeau**, CRS & Floodplain  
Coordinator, Cape Cod Cooperative  
Extension & Woods Hole Sea Grant

**Heather McElroy**, Natural Resources  
Specialist, Cape Cod Commission

**Tonna-Marie Rogers**, Acting Manager,  
Waquoit Bay National Estuarine  
Research Reserve

**Please register at <http://www.waquoitbayreserve.org/>  
or email Sara Sperber at [ssperber23@gmail.com](mailto:ssperber23@gmail.com) by Tuesday May 2, 2019**

*\*Note: State CE credits are not available for this professional development seminar.*

**Questions?** Contact Tonna-Marie Rogers at [tonna-marie.surgeon-rogers@state.ma.us](mailto:tonna-marie.surgeon-rogers@state.ma.us) or Sara Sperber at [ssperber23@gmail.com](mailto:ssperber23@gmail.com)



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## Meet the Speakers

**GREG BERMAN**, PG, GISP, is a coastal processes specialist for Woods Hole Sea Grant (WHSG) and the Cape Cod Cooperative Extension (CCCE), where he provides technical assistance on coastal geology topics: shoreline change, erosion control alternatives, potential effects of various human activities on coastal landforms, coastal flood plains, coastal hazards, hazard mitigation analyses, and dune restoration techniques. He joined WHSG and CCCE after five years with Science Applications International Corporation (SAIC) where he worked on a variety of government projects focusing on environmental assessments and shoreline stabilization. Prior to that he spent six years with United States Geological Survey (USGS) offices in Florida and Hawaii, where he performed analysis of coastal geology, habitat, and hydrology. He has more than 15 years of diverse experience with surveying, interpreting, and reporting on coastal geology. He has also regularly provided assistance in local coastal restoration projects organized by environmental non-profit organizations and worked with a wide spectrum of volunteers.

**SHANNON HULST JARBEAU** CFM is the Floodplain Specialist and Community Rating System (CRS) Coordinator for Barnstable County through the Cape Cod Cooperative Extension and Woods Hole Sea Grant. She is a Certified Floodplain Manager® with a Master's degree in Marine Affairs from the University of Rhode Island. Shannon assists communities with flood-related technical assistance and participation in the CRS. Barnstable County's regional CRS program has been recognized nationally, earning the Association of State Floodplain Managers' 2017 James Lee Witt Local Award for Excellence in Floodplain Management and serving as the inspiration for a bill from Congressman Keating in the pending 2017 National Flood Insurance Program reauthorization.

**HEATHER MCELROY** has served as the Cape Cod Commission's Natural Resources Specialist for the last 18 years, developing natural resource and land use policy for the Cape, and applying those policies to the Commission's planning and regulatory work. Her work includes natural resources management policy, green infrastructure planning, and coastal resiliency and ocean planning. Heather has supported the development of the Section 208 Water Quality Plan for Cape Cod, including facilitating the science advisory panel convened to examine alternative nitrogen management technologies, and overseeing the maintenance of the Technologies Matrix. She is part of the Resilient Cape Cod Project team working to improve communication, knowledge and action on coastal resiliency issues on Cape Cod.

**TONNA-MARIE ROGERS** is the Acting Manager and Coastal Training Program (CTP) Coordinator at the Waquoit Bay National Estuarine Research Reserve (WBNERR) based in Falmouth, MA, and has been on staff at WBNERR for the past thirteen years. Tonna-Marie has twenty years of experience working at the nexus of science, coastal management and policy. Trained as a coastal scientist, science communicator, and stakeholder engagement specialist, she has significant expertise in designing training and technical assistance for decision-makers on issues such as water quality, coastal resilience, climate change, habitat restoration, disaster risk reduction, among others. Through the CTP (a national program of the National Estuarine Research Reserve System), Tonna-Marie develops trainings that focus on integrating the best available science on key coastal management issues and tailor it for application in the public realm. She is also a seasoned project manager that has led/contributed to many research and environmental projects that aim to better connect scientists with those who are in a position to apply science in their work and decision-making. Tonna-Marie has an extensive background working in the U.S. and the Caribbean on coastal resilience and reducing risk from coastal hazards and is interested in bringing this information to the business community given the key role they play in making strong coastal communities.

