

**Beyond Nuisance Flooding:
Getting to Coastal Resilience in a Changing Climate**

June 6, 2018

- I. Introduction
 - a. Who I am
 - b. What is AGU/TEX
 - c. Flood Forum USA/Anthropocene Alliance

- II. East Coast Barrier Island Flood Issue
 - a. Historic Flood Events
 - b. Nuisance Flood Events
 - c. Sea Level Rise
 - i. Historic Sea Level rise
 - ii. Current Trends
 - iii. Future Sea Levels
 - d. Frequency of Future High-tide Flood Events
 - e. Climate related rainfall changes
 - f. Join tidal and rainfall flood frequency

- III. Flood mitigation techniques
 - a. Hard Structures, barriers and Pumps
 - b. Natural and Nature Based Solutions
 - c. Ecological Adaptation

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Dr. Thomas Herrington is the associate director of the Urban Coast Institute at Monmouth University. He also serves as the NJ Sea Grant Consortium Coastal Community Resilience Specialist and is a volunteer scientist with the American Geophysical Union Thriving Earth Exchange. Prior to joining Monmouth, Dr. Herrington was the director of the ocean engineering graduate program at Stevens Institute of Technology and the director of the New Jersey Coastal Protection Technical Assistance Service. Tom has over 25 years of experience in coastal sustainability and hazard mitigation research, including the analysis of storm surge and wave impacts on coastal communities. He has authored or coauthored on over 100 journal, outreach and technical publications in the field of coastal and ocean engineering, including the NJ Sea Grant Manual for Coastal Hazard Mitigation, and is a contributing author to Blue Dunes: Climate Change by Design. He presently serves on the FEMA Region II Coastal Outreach Advisory Team, the New Jersey Coastal Resilience Collaborative, NJFRAMES project committee, Barnegat Bay Partnership Land Use Panel, and is on the Board of Directors of the American Shore & Beach Preservation Association, the Jersey Shore Partnership, and the New Jersey Sea Grant Consortium. Dr. Herrington holds a Bachelor of Engineering Degree in Civil Engineering and a MS and Ph. D. in Ocean Engineering from Stevens Institute of Technology. He has been lending his guidance and expertise to Ocean City Flooding Committee for many months.

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