Conference Website: http://meri.njmeadowlands.gov/super-storm-sandy-five-years-later/

Hosted by:
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Meadowlands Conference, Super Storm Sandy: Five Years Later

Date: **October 26 and 27, 2017**

Location: **1 DeKorte Park Plaza Lyndhurst, NJ 07071**

It's been five years since Superstorm Sandy slammed the East Coast. The financial, human and environmental costs were enormous. Scientists agree a warming planet will make such extreme weather a larger part of the future of New Jersey and coastal cities around the world. This uncertain future leads us to some important questions. How can we best deal with storm surges and coastal inundation? How do we build resiliency into our urban coastal communities and structures while protecting the natural environment? How should we reimagine regulations regarding land use and environmental protection? In Sandy's aftermath, environmental scientists, social scientists, economists, private consultants and government officials worked to answer such questions, compiling massive amounts of data, writing papers, and holding hearings. This conference, organized by the Rutgers University Meadowlands Environment Research Institute in Lyndhurst, New Jersey, brings together a community of scholars, researchers, urban planners, and policy-makers to share ideas and findings around the environmental, social and design challenges facing East Coast estuaries and bays under more frequent extreme weather

AGENDA: Day 1 – October 26, 2017

8:00am	Registration
8:15am	Greetings, remarks - Policy keynote
8:30am	Key Note – John Prince EPA Region 2
9:00am	Key Note – Benjamin Horton Ph.D

9:30 - 11:00 - Session 1 – Environmental Science

9:30am	Peter Brussock (ELM) *Stability of the Berry's Creek Study Area Estuary in Response to Hurricanes and Tropical Storms*
9:50am	Cheryl Yao (Meri) *Baseline and distribution of organic pollutants and heavy metals in tidal creek sediments after Hurricane Sandy in the Meadowlands of New Jersey*
10:10am	Zoltan Szabo (USGS) *Use of Composite Sediment Quality Indicators to Assess Change in Potential Sediment Toxicity: Near-Coastal Sediments of the New Jersey-New York Right Before and After Hurricane Sandy Landfall*
10:30am	Jeffrey Fischer (USGS) *A regional reconnaissance of sediment and biota contamination in coastal regions of New York and New Jersey following Hurricane Sandy*
11:00am	**Break**

11:20 - 12:40 - Session 2 – Environmental Science

11:20am	Erik Kiviat (Hudsonia) *Effects of Hurricane Sandy on Freshwater Biodiversity in the New Jersey Meadowlands*
11:40am	Kira Dacanay (NJDEP) *Hard Clam Populations in Two New Jersey Estuaries Before and After Superstorm Sandy*
12:00pm	Christopher Haight (NYC Parks & Recreation) *New York City Salt Marsh Restoration and Protection, Post-Hurricane Sandy*
12:20pm	Ramya Chari (RAND Corporation) *Characterizing community and recovery worker exposures from fugitive chemicals following Superstorm Sandy*
12:40pm	**Lunch – In Visitors Center down the flyway**

1:40 - 3:00 - Session 3 – Environmental Science

1:40pm Andra Garner (Rutgers New Brunswick Marine and Coastal Science)
Climate Change Impact on New York City Coastal Flood Risk: Increases from the Pre-Industrial to 2300 CE

2:00pm Nelson Vaz (NWS)
Enhancing NWS Extra-Tropical Coastal Hazard and Impact Forecasts for the Tri-State Region

2:20pm Chia-Ying Lee (Columbia)
Tropical cyclone hazard assessment for the New York Metro area using a new statistical-dynamical model

2:40pm John R. Yagecic (Delaware River Basin Commission)
Enhanced Understanding of Hydraulic Processes via Animated Graphing of Continuous Monitor Data in the Delaware Estuary and Barnegat Bay during Sandy

3:05pm Break

3:20 - 4:00 - Session 4 – Environmental Science

3:20pm Adam H. Sobel (Columbia)
On the use of predictive science in environmental risk assessment: lessons from Sandy

3:40pm Mittul Patel (BEM Systems)
Flood forecast Asset Response System (FfARS) application to Hoboken Terminal and Yard

4:00pm Saleh Firas (Stevens Institute of Technology)
A Multi-Scale Ensemble-based Framework for Forecasting Compound Coastal-Riverine Flooding: The Hackensack-Passaic Watershed and Newark Bay

4:20pm Ildiko Pechmann, Ph.D. (MERI)
Conveying flood hazard risk through spatial modelling: A case study for Hurricane Sandy affected communities in Northern New Jersey

4:40pm Poster Session & Networking– In the flyway gallery

AGENDA: Day 2 – October 27, 2017

8:30am Greetings, remarks - Policy keynote

9:00am Key Note – David Robinson Ph.D

9:30 - 11:00 - Session 1 – Planning

9:30am Ed Levine (NOAA)
The Role of NOAA During and After the Response to Super Storm Sandy

9:50am David Heller (South Jersey Transportation)
An Uncomfortable Truth: Assessing Hurricane Preparedness in New Jersey Five Years after Sandy

10:10am Nikitas Georgas (Stevens Institute of Technology)
Next generation of coastal ocean operational systems: street scale flood forecasts for the urban ocean in the New York/New Jersey metropolitan region.

10:30am Jennifer Whytlaw (GISP, Rutgers)
Rebuilding with Greater Resiliency: The IRIS Viewer and the compilation of data behind it

11:00am Break

11:20 - 12:40 - Session 2 – Planning

11:20am Linda Fisher (NJDEP)
Rebuild by Design Meadowlands Flood Protection Project: An Update on the Feasibility Study and Environmental Impact Statement

11:40am Elisabeth Semple (NJDEP)
Resilience Planning and Implementation in New Jersey's Coastal Communities

12:00pm Libby Zemaitis (Hudson River Estuary Program)
Climate-Adaptive Design: using design to inspire climate adaptive action and build stakeholder capacity along the Hudson River

12:20pm Angela Padeletti (Partnership for the Delaware Estuary)
Building Ecological Solutions to Coastal Community Hazards-Partnerships for a resilient New Jersey

12:40pm Lunch – In Visitors Center down the flyway

1:40 - 2:40 - Session 3 – Social and Economic Impacts

1:40pm	Karen M. O'Neill (Rutgers) *The shoreline will move, even if we don't plan for it: A strategy for retreat at the Jersey Shore that sustains social, economic, and ecological uses*
2:00pm	Jeremiah Bergstrom (Rutgers) *Collaboration in Shaping Resilient Landscapes for the Future*
2:20pm	Daniel Van Abs (Rutgers) & Aaron Damiani (NJ American Water, Inc.) *Tracking Community Restoration Through Water Demands*
2:40pm	Gary Szatkowski (National Weather Service) *Five Years after Hurricane/Superstorm Sandy – The Lessons We've Learned and Those We Still Have Yet to Learn*
3:00pm	**Closing Remarks - Francisco Artigas Ph.D**