



2025 MONTHLY MEMBERSHIP MEETINGS

2:00-3:30 PM ET

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USCRP Program Updates

FEBRUARY 4

Dr. Bret Webb (University of South Alabama) *Systems Engineering Approaches for Resilience to Coastal Hazards*

Dr. Diane Henshel (Indiana University) *Climate resilience and adaptation of communities to storm-related flooding in the US Great Lakes watershed*

MARCH 4

Dr. Andrew Juhl (Lamont-Doherty Earth Observatory of Columbia University) *A Multi-Decadal Re-Analysis of Water Quality and Health Risks In An Urban, Coastal Watershed With Changing Precipitation*

Dr. Alberto Canestrelli (University of Florida) *Identification of sources of fecal pollution in populated estuaries by a combination of monitoring and numerical modeling*

JUNE 3

Dr. Morteza Derakhti (University of Washington) *Sediment Transport Over the Nearshore Environment (STONE): Linking nonlinear wave effects across the shoaling and breaking zone*

Dr. Christie Hegermiller (University of Washington) *Long-wave and short-wave controls on nearshore sediment suspension and transport*

Dr. Thomas Lippmann (University of New Hampshire) *Biophysical Drivers of Sedimentation in Salt Marsh Environments with Implications for Coastal Resiliency*

MAY 6

Dr. Tracey Mandel (University of New Hampshire) *Scaling Transport in Nearshore Vegetated and Non-Vegetated Environments: Sediment, Seeds, and Stiffness*

Dr. Kim de Mutsert & Dr. Kemal Cambazoglu (University of Southern Mississippi) *Using a coupled modeling framework to evaluate how freshwater and nutrient input from Bonnet Carré spillway openings affects water quality, food webs, and fisheries in the Mississippi Sound and Bight*

Dr. Timu Gallien (University of California Los Angeles) *Analyzing and Modeling Hybrid Dune Resilience to Energetic Waves*

APRIL 1

Dr. Jon Miller (Stevens Institute of Technology) *Evaluating the Influence of Water Level on Wave Attenuation of Natural and Nature Based Features in Low-High Energy Environments*

Dr. Reza Marsooli (Stevens Institute of Technology) *Benefits of Vegetation for Preventing Coastal Flooding Induced by Failure of Seawalls*

Dr. Diane Foster (University of New Hampshire) *Observations of Sediment Overwash into Salt Marsh Environments with Implications for Coastal Resiliency in Colder Climates*

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JULY 1

Dr. Karl Kaiser (Texas A&M University at Galveston) *Sources and Transport Pathways of Microplastics in a Coastal Estuary*

Dr. Hussain Abdulla (Texas A&M University-Corpus Christi) *Microplastic presence and circulation in Galveston, Corpus Christi, and Matagorda Bays*

Dr. Alberto Canestrelli (University of Florida) *Quantifying morphological changes driven by oyster reef breakwaters under different tidal and wave conditions to inform restoration strategies*

AUGUST 5

Dr. Natalie Nelson (North Carolina State University) *Towards Real-Time Fecal Indicator Bacteria Monitoring in Coastal Waters*

Dr. Antonio Rodriguez (University of North Carolina at Chapel Hill) *Investigating oyster-reef morphodynamics to optimize nature-based infrastructure*

Dr. Bret Webb (University of South Alabama) *Augmenting Hurricane Sentinel Towers with Chemical and Biological Sensors*

SEPTEMBER 2

Dr. Justin Stopa (University of Hawaii at Manoa) *An Investigation of Morphodynamic Long-Term Variability at Waikiki Beach*

Dr. Silvia Newell (University of Michigan) *Identifying At-Risk Habitats for Walleye, Yellow Perch, and Lake Whitefish in the U.S. Great Lakes Amid Aquatic Invasive Species Impacts*

Dr. Christie Hegermiller (University of Washington) *Automated sediment characterization to understand long-term coastal change in response to human interventions*

OCTOBER 7

Dr. Cary Troy (Purdue University) *Quantifying and Understanding the Lake Michigan Shoreline Response Associated with an Extreme Water Level Increase*

Dr. Katy Serafin (University of Florida) *How colliding forces change: The influence of climate and geography on flood transition zones*

Dr. Thomas Lippmann (University of New Hampshire) *Coastal Resiliency in Salt Marshes and Marine Vegetated Environments*

NOVEMBER 4

Dr. Jennifer Irish (Virginia Tech) *Physically Informed, Equitable, and Efficient Hurricane Surge Characterization*

Dr. Ryan Mieras (University of North Carolina Wilmington) *Breaking wave-induced rapid beach profile evolution in the inner surf and swash zones*

Dr. Gabriele Villarini (Princeton University) *Probabilistic predictions of rainfall associated with tropical cyclones over land*

DECEMBER 2

Dr. Felix Santiago-Collazo (University of Georgia) *Assessing Compound Flood Impacts on Groundwater Levels in Coastal Urban Communities*

Dr. Kendall Valentine (University of Washington) *Implementing species-specific root traits into hydrodynamic and geomorphological models of marsh evolution to understand Blue Carbon dynamics*

Dr. Nigel Temple (University of South Alabama) *Performance Evaluation of Nature-based Retrofits for Hardened Shorelines and Impacts on Adjacent Properties*