

Agenda

Thursday – March 21

7:15 - 8:15 a.m.	Registration Load presentations, set up posters and exhibits, enjoy coffee and hot morning refreshments
7:15 - 8:15 a.m. Room 1B	Mentorship Meet Up Opportunity for pre-registered mentorship program participants to meet.
8:15 - 8:30 a.m. Room 1A	Welcome
8:40 - 10:00 a.m. Room 3	Concurrent Session 1 Wastewater Treatment Moderator: Sheila Saia, NC State University 8:40 - 9:00 Review of phosphate treatment by 32 onsite wastewater systems in eastern North Carolina, Charles Humphrey , East Carolina University 9:00 - 9:20 Impacts of irrigated municipal wastewater to the water balance in a forested water reuse system, Nancy Gibson , NC State University 9:20 - 9:40 Coastal tourism and its influence on wastewater nitrogen loading: A barrier island case study, Michael O'Driscoll , East Carolina University 9:40 - 10:00 Biochemical transformations of Iron and Sulfur in an innovative Fe(II)-dosed continuous flow anaerobic wastewater treatment process, Dongyang Deng , North Carolina A&T State University
Room 4	Economics of Water Resource Management Moderator: Christy Perrin, NC WRRRI & North Carolina Sea Grant 8:40 - 9:00 Water economics in North Carolina: Current and future challenges, Eric Edwards , NC State University 9:00 - 9:20 Hurricane Florence and the gap between perceived and actual risk of contamination in private wells, Jacob Hochard , East Carolina University 9:20 - 9:40 Water stream quality in urbanizing watersheds: A hedonic analysis, Alexandra Naumenko , NC State University 9:40 - 10:00 Should I stay or should I go? Coal ash in North Carolina, Sara Sutherland , NC State University
Room 5	Stormwater Management: Part 1 Moderator: Jeffrey Johnson, NC State University 8:40 - 9:00 Aging bioretention: A retrospective comparison of nutrient treatment efficiency in a 17-year old bioretention cell, Jeffrey Johnson , NC State University 9:00 - 9:20 Maintenance costs of stormwater control measures in North Carolina, Sarah Waickowski , NC State University 9:20 - 9:40 Meso-scale infiltration experiments and modeling of preferential flow in macroporous soils, Lucie Guertault , NC State University 9:40 - 10:00 Investigating the use of pine bark and sand to remove nutrients in regenerative stormwater conveyance, Rachel Taylor , NC State University
Room 6	Lake Mattamuskeet Research and Restoration Moderator: Frank Lopez, NC WRRRI & North Carolina Sea Grant 8:40 - 9:00 Monitoring efforts on the Mattamuskeet National Wildlife Refuge (water quality, water level and submerged aquatic vegetation), Wendy Stanton , U.S. Fish and Wildlife Service 9:00 - 9:20 Identifying the causes of eutrophication and flooding in the Lake Mattamuskeet watershed, Randall Etheridge , East Carolina University 9:20 - 9:40 Evaluating the feasibility of common carp exclusion and targeted vegetation restoration in Lake Mattamuskeet, April Lamb , NC State University 9:40 - 10:00 Developing the Lake Mattamuskeet Watershed Restoration Plan, Michael Flynn , North Carolina Coastal Federation

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<p>10:00 - 10:20</p> <p>Room 1D</p>	<p>Networking Break</p>
<p>10:20 - 12:00 p.m.</p> <p>Room 3</p>	<p>Concurrent Session 2</p> <p>Private Wells, Contaminants and Public Health Moderator: Craig Caldwell, NC DEQ Division of Water Resources</p> <p>10:20 - 10:40 Using multiple-variable indicator kriging for evaluating water quality from private household wells in Gaston County, NC, Claudio Owusu, University of North Carolina at Charlotte</p> <p>10:40 - 11:00 Casing out contaminants: Avoidance behavior along the hydrogeologic gradient, Jacob Hochard, East Carolina University</p> <p>11:00 - 11:20 Water infrastructure, annexation and childhood blood lead levels: Characterizing the effects of exclusion from municipal water services in Wake County, Allison Clonch, University of North Carolina at Chapel Hill</p> <p>11:20 - 11:40 Determining the relationship between drinking private well water and children's blood lead levels, Abhishek Komandur, University of North Carolina at Chapel Hill</p> <p>11:40 - 12:00 Distribution and concentration of antibiotics in rural streams and groundwater in the Piedmont of North Carolina, Austin D. Gray, University of North Carolina at Greensboro</p>
<p>Room 4</p>	<p>Water Utility Management Moderator: Austin Burke, NC State University</p> <p>10:20 - 10:40 Planning for future population growth: Water and infrastructure challenges present opportunities for improved sustainability and inclusiveness, Kevin Nunnery, Biohabitats, Inc.</p> <p>10:40 - 11:00 Fair market valuation legislation: A new alternative for local governments in water and wastewater utility ownership, Ruffin Poole, Aqua North Carolina, Inc.</p> <p>11:00 - 11:20 Catawba-Wateree takes the next step in water loss control, Drew Blackwell, Cavanaugh & Associates, P.A.</p> <p>11:20 - 11:40 The new validation standard for AWWA water auditing: Evolutions in water audit validation & regulatory requirement, Will Jernigan, Cavanaugh & Associates, P.A.</p> <p>11:40 - 12:00 Benefits and tradeoffs of cooperation: Exploring the relative merits of treatment capacity sharing agreements among water utilities, David Gorelick, University of North Carolina at Chapel Hill</p>
<p>Room 5</p>	<p>Restoration and Management of Streams, Rivers, Lakes and Estuaries: Part 1 Moderator: Sandra Clinton, University of North Carolina at Charlotte</p> <p>10:20 - 10:40 A bigger bang for the bug: Using assessment data for stressor identification to support restoration actions, Michael Paul, Tetra Tech Inc., Ecological Sciences</p> <p>10:40 - 11:00 Evaluation of nutrient reduction crediting strategies for stream restoration, Barbara Doll, North Carolina Sea Grant/NC State University</p> <p>11:00 - 11:20 Evaluating stream function using the stream quantification tool in piedmont North Carolina, Sara R. Donatich, NC State University</p> <p>11:20 - 11:40 Protecting and restoring flows in our southeastern rivers: A synthesis of state policies for water security and sustainability, Katherine Baer, River Network, and Grady McCallie, North Carolina Conservation Network</p> <p>11:40 - 12:00 Observing oyster-driven freshwater detention at the estuary scale from satellite imagery, Natalie Nelson, NC State University</p>
<p>Room 6</p>	<p>Water Quality Monitoring, Modeling and Management: Part 1 Moderator: Nicole Barclay, University of North Carolina at Charlotte</p> <p>10:20 - 10:40 Contrasting multi-stressor effects on biological communities between urban and agricultural streams, Celeste Journey, U.S. Geological Survey</p> <p>10:40 - 11:00 Trends in eutrophication-related water quality parameters in the middle and lower Cape Fear River basin, Nathan S. Hall, University of North Carolina Institute of Marine Sciences</p> <p>11:00 - 11:20 Nutrient loads from agricultural watersheds in the North Carolina Piedmont and coastal plain, Deanna Osmond and Dan Line, NC State University</p> <p>11:20 - 11:40 Insights of processes and mechanisms controlling nitrate dynamics in an artificially drained field using high-frequency water quality measurements, Wenlong Liu, NC State University</p>

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11:40 - 12:00	<i>Water Quality Monitoring, Modeling and Management: Part 1 continued</i>
11:40 - 12:00	Development and implementation of nutrient reduction practices by the UNRBA for compliance with nutrient reduction requirements, Forrest Westall , Upper Neuse River Basin Association
12:00 - 1:30 p.m. Room 2	Keynote Address and Networking Luncheon Community Engagement: Thinking Outside the Box or Just Plain Common Sense? Vernice Miller-Travis, Skeo Solutions, Inc.
1:30 - 2:30 Room 3	Concurrent Session 3 Contaminants of Emerging Concern: Part 1 Moderator: Dongyeng Deng, North Carolina A&T University
1:30 - 1:50	Detection and treatment of per- and polyfluoroalkyl ether acids in North Carolina surface water, Zachary Hopkins , NC State University
1:50 - 2:10	Enhancing the total oxidizable precursor assay for environmental samples containing per- and polyfluoroalkyl ether acids, Chuhui Zhang , NC State University
2:10 - 2:30	Drinking water forums in the Cape Fear River basin, Tom Hoban , Cape Fear River Assembly
Room 4	Statewide Water Resources Planning Moderator: Craig Caldwell, NC DEQ Division of Water Resources
1:30 - 1:50	Some (fairly) unique features of Carolina water law, Richard Whisnant , University of North Carolina at Chapel Hill
1:50 - 2:10	Developing basinwide water management plans: What basin planning entails, Michelle Raquet, Nora Deamer and Christina Davis , NC DEQ Division of Water Resources, Basin Planning Branch
2:10 - 2:30	Navigating common pitfalls when conducting long-range water supply planning, Harold M. Brady , NC DEQ
Room 5	Stormwater Management: Part 2 Moderator: Jason Doll, KCI Associates of North Carolina
1:30 - 1:50	Stormwater management for coastal communities: A case study review, Jennifer Diaz , WithersRavenel
1:50 - 2:10	The effects of temperature on SCM nitrogen cycling, Adam C. Gold , University of North Carolina Institute of Marine Sciences
2:10 - 2:30	Measuring the impacts of green stormwater infrastructure on stream health, Kristina Hopkins , U.S. Geological Survey
Room 6	Water Quality Monitoring, Modeling and Management: Part 2 Moderator: Susan White, NC WRRI & North Carolina Sea Grant
1:30 - 1:50	Development and application of a probabilistic hypoxia forecasting model for the Neuse Estuary, Alexey Katin , NC State University
1:50 - 2:10	Forecasting water quality in urban streams under future management scenarios through hierarchical modeling, Jonathan Miller , NC State University
2:10 - 2:30	Assessing water quality from highway runoff at selected sites in North Carolina with the stochastic empirical loading and dilution model, J. Curtis Weaver , U.S. Geological Survey
2:30 - 2:50 Room 1D	Networking Break
2:50 - 3:50 Room 3	Concurrent Session 4 Contaminants and Emerging Concern: Part 2 Moderator: John Fear, NC WRRI & North Carolina Sea Grant
2:50 - 3:10	Exploring biofiltration as a treatment alternative for 1,4-dioxane at drinking water relevant concentrations, Amie McElroy , NC State University
3:10 - 3:30	PAHs, coal tar sealants and stream toxicity in Charlotte-Mecklenburg, Jason Hunt , Charlotte-Mecklenburg Storm Water Services
3:30 - 3:50	Release characteristics and modeling of controlled release potassium permanganate embedded in polyvinyl acetate within different soil media, Mehdi Lamssali , North Carolina A&T University

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Room 4	<p>Flood-driven Water Quality Impacts and implications for Coastal Plain communities: Part 1 Moderator: Alisha Goldstein, NC State University</p> <p>2:50 - 3:10 Water quality of Hurricane Florence floodwaters: Knowledge gaps and challenges, Natalie Nelson, NC State University</p> <p>3:10 - 3:30 Water quality of Hurricane Florence floodwaters: What we know so far, Angela Harris, NC State University</p> <p>3:30 - 3:50 Disparities in well water outreach capacity among local health departments in North Carolina, Kelsey Pieper, Virginia Tech</p>
Room 5	<p>Tools of the Trade Moderator: Trish D'Arconte, NC Department of Environmental Quality</p> <p>2:50 - 3:10 A web GIS system for the collection, management and analysis of private wells data in Gaston County, NC, Yu Lan, University of North Carolina Charlotte</p> <p>3:10 - 3:30 NC DEQ's new stormwater nutrient calculator - The SNAP Tool – Part 1, Trish D'Arconte, NC Department of Environmental Quality</p> <p>3:30 - 3:50 NC DEQ's new stormwater nutrient calculator - The SNAP Tool – Part 2, Trish D'Arconte, NC Department of Environmental Quality</p>
Room 1B	<p>Career Conversations</p> <p>2:50 - 3:50 Students, recent graduates and young professionals meet with professionals in a series of 20-minute roundtable conversations to discuss a variety of career-related topics.</p>
3:50-4:00	Brief Transition Break
4:00-5:00	Concurrent Session 5 – Lightning Talks
Room 1A	<p>Lightning 1 Moderator: Christy Perrin, NC WRRI & North Carolina Sea Grant</p> <p>4:00 - 4:05 Hydrologic inventory of small urban streams: A case study in Walnut Creek watershed, Raleigh, North Carolina, Theo Jass, NC State University</p> <p>4:05 - 4:10 Beavers, the original stream engineers: What can they teach us?, Kevin Nunnery, Biohabitats</p> <p>4:10 - 4:15 #Expectation vs. #Reality: Adventures in construction and the natural environment, Nikki Thomson, Kleinfelder</p> <p>4:15 - 4:20 Saltwater intrusion in low elevation fields of coastal North Carolina: Insights from field data and observations, Alex Manda, East Carolina University</p> <p>4:20 - 4:25 High-resolution measurement of soil thermal properties and moisture content using a novel heated fiber-optics approach, Mahmoud Shehata, NC State University</p> <p>4:25 - 4:30 Microbial source tracking in the Chattahoochee River National Recreation Area, Anna McKee, U.S. Geological Survey, South Atlantic Water Science Center</p> <p>4:30 - 4:35 Nutrient profiles, phytoplankton biomass and algal assemblages in Falls Lake, North Carolina, Nicole L. Lindor, NC State University</p> <p>4:35 - 4:40 Baseline phycology, nutrients and cyanotoxins in Currituck Sound prior to proposed bridge construction, Sharon Fitzgerald, US Geological Survey, South Atlantic Water Science Center</p> <p>4:40 - 4:45 Organic nitrogen trends in North Carolina, South Carolina and Virginia, Andy Painter and A dugna Kebede, NC DEQ</p>
Room 1B	<p>Lightning 2 Moderator: Susan White, NC WRRI & North Carolina Sea Grant</p> <p>4:00 - 4:05 Playing in wetlands: Implementing stormwater control measures in Siler City, North Carolina neighborhood parks, Grace Messinger, Piedmont Conservation Council, and Catherine Deininger, Biocenosis</p> <p>4:05 - 4:10 Hydrologic and water quality impacts of a green street retrofit in Fayetteville, North Carolina, Sarah Waickowski, NC State University</p> <p>4:10 - 4:15 A framework for evaluating the socio-technical performance of green stormwater infrastructure, Nicole Barclay, University of North Carolina at Charlotte</p> <p>4:15 - 4:20 Let's call it a comeback: Beaver, the ecological engineer for water quality and resiliency, Rob Hopper, CDM Smith</p> <p>4:20 - 4:25 Treating urban stormwater with street trees, Katie Balaze, NC State University</p>

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	<i>Lightning 2 continued</i>
4:25 - 4:30	Suspect screening and prioritization of chemicals of concern in a comprehensive, field-scale study of a forested water reuse system, Melanie Hedgespeth , NC State University
4:30 - 4:35	Evaluating wastewater impacted surface waters of North Carolina, Jacelyn Rice , University of North Carolina Charlotte
Room 6	Lightning 3: Water in the Context of Change – NC State University Student Perspectives Moderator: Katherine Martin, NC State University – <i>Session abstract listed under Katherine Martin; no individual abstracts for student presentations</i>
4:00 - 4:05	Land cover change and hydropower impacts on water quality, Adam Bahtiar
4:05 - 4:10	Small scale, sustainable hydropower, Cole Brown
4:10 - 4:15	Water quality in North Carolina: Student perspective, Brant Dupree
4:15 - 4:20	Climate change economics in North Carolina, Sriya Gottumukkula
4:20 - 4:25	Restoring pocosins, Kate Hefner
4:25 - 4:30	Stream and lake restoration in the context of climate change, Madeline Henry
4:30 - 4:35	Depressional swamps on the Albemarle-Pamlico Peninsula, Ryan Levine
4:35 - 4:40	Sea level rise and coastal change in North Carolina, Kadie Midgett
4:40 - 4:45	Land use change and water quality in the White Oak River, Sarah Rowland
4:45 - 4:50	Biotic factors and water in North Carolina, Hailey Shoptaugh
4:50 - 4:55	Bioenergy in North Carolina, Nikki Stancil
4:55 - 5:00	Hog lagoons, climate change and environmental justice, Jillian Tate
5:00 - 5:05	Land use change and water quality, Seth Winders
5:05 p.m.	End of Sessions – <i>Please sign the PDH/CEU sign-up form at the registration desk in order to certify your attendance today.</i>
5:00 - 7:00 p.m.	Poster Session and Networking Reception
Room 1D	Join us for research poster presentations and a chance to meet the poster authors and network with conference participants and exhibitors. Enjoy heavy hors d'oeuvres, plus beer from NC State University's Fermentation Science Program. Jazz guitar duo Doug Sours and Scott Harrison will play original compositions and water-themed instrumental music.

Friday – March 22

7:45 - 8:45 a.m.	Registration & Mentorship Open House
Room 1B	<i>View posters, enjoy morning refreshments and join the Open House, designed for anyone interested in providing or receiving mentorship and career support.</i>
8:45 - 9:00 a.m.	Welcome
Room 1A	
9:00 - 10:20	Concurrent Session 6
Room 3	Algae, Toxins and Nutrients in Lakes and Reservoirs Moderator: John Fear, NC WRI & North Carolina Sea Grant
9:00 - 9:20	Cyanotoxins in North Carolina lakes and reservoirs: Year-round occurrences of multiple toxins, 2016-2017, Astrid Schnetzer , NC State University

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9:20 - 9:40	Management of cyanobacteria, pH and nutrients in White Lake: A naturally acidic groundwater-fed bay lake in Bladen County, N.C., Diane Lauritsen , LIMNOSCIENCES
9:40 - 10:00	Best management practices to enhance nutrient attenuation of wastewater-derived nutrients in the Falls Lake watershed, Guy Iverson , East Carolina University
10:00 - 10:20	What's controlling algal production in Jordan Lake, North Carolina? The interactive effects of nutrient and light limitation, Hans W. Paerl , University of North Carolina at Chapel Hill
Room 4	Groundwater: Part 1 Moderator: Gloria Putnam, North Carolina Sea Grant
9:00 - 9:20	Role of the NC Division of Water Resources Ground Water Management Branch, Mark Durway , NC DEQ DWR Ground Water Management Branch
9:20 - 9:40	Environmental change and septic in Nags Head: Local perspectives and impacts on water quality and quantity, Marium Konsouh , University of North Carolina Coastal Studies Institute
9:40 - 10:00	Relating groundwater well location and depth to water quality in rural eastern North Carolina, Thomas Vogel , East Carolina University
10:00 - 10:20	A geospatial approach to identifying opportunities for reducing septic nitrogen loads in Maryland, Hillary Yonce , Tetra Tech
Room 5	Wetlands: Part 1 Moderator: Rick Savage, Carolina Wetlands Association
9:00 - 9:20	Wetlands research and projects in the Carolinas, Rick Savage and Kim Matthews , Carolina Wetlands Association
9:20 - 9:40	ncwetlands.org: A new wetlands education and outreach resource to increase awareness about North Carolina's wetlands, Kristie Gianopulos , NC Division of Water Resources, Water Sciences Section
9:40 - 10:00	Wetland Forest Initiative, Lucia Ibarra , Wetland Forest Initiative
10:00 - 10:20	The potential long-term impacts of climate change on the hydrology of Coastal Plain wetlands in North Carolina, Jack Kurki-Fox , NC State University
Room 6	Managing Competing Water Demands in the Coastal Carolinas and the U.S. Moderator: Laura Gurley, U.S. Geological Survey South Atlantic Water Science Center
9:00 - 9:20	Estimated water use in the Southeastern Atlantic Coastal Region for years 2000, 2005, 2010 and 2015, Jaime Painter , U.S. Geological Survey
9:20 - 9:40	Forecasting water demand in a rapidly urbanizing megaregion, Georgina Sanchez , NC State University
9:40 - 10:00	South Carolina Atlantic Coastal Plain Groundwater Availability Model, Bruce Campbell , U.S. Geological Survey
10:00 - 10:20	Assessing future water availability in Coastal Carolinas basins, Ana Garcia , U.S. Geological Survey South Atlantic Water Science Center
10:20 - 10:40	Networking Break
Room 1D	
10:40 - 11:40	Concurrent Session 7
Room 3	Watershed Planning, Hydrology and Management: Part 1 Moderator: Wenlong Liu, NC State University
10:40 - 11:00	Effects of urbanization on watershed water balances across North Carolina and beyond, Ge Sun , USDA Forest Service
11:00 - 11:20	Machine learning and hydrology: Applications for urban watershed planning and management in the Carolinas, Charles C. Stillwell , NC State University
11:20 - 11:40	A framework for locating and valuing targeted areas for conservation to prevent future water quantity and quality changes: Catawba-Wateree watershed case study, Michele Eddy , RTI International
Room 4	Restoration and Management of Streams, Rivers, Lakes and Estuaries: Part 2 Moderator: Frank Lopez, NC WRRRI & North Carolina Sea Grant
10:40 - 11:00	Stream simulation design to restore aquatic organism passage and improve flood resilience on national forests, Zack Mondry , USDA Forest Service

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Restoration and Management of Streams, Rivers, Lakes and Estuaries: Part 2 continued

11:00 - 11:20	Evaluation of stream culvert crossings for function and aquatic life passage, Erin Shanaberger , City of Charlotte Storm Water Services
11:20 - 11:40	Urban stream mitigation: Negotiations, bridges, bugs and BMPs, Ward Marotti , WK Dickson
Room 5 10:40 - 11:40	Wetlands in Jeopardy: Loss of Protection from Changes to WOTUS – Panel/Discussion Session Moderator: Rick Savage, Carolina Wetlands Association
Room 6 10:40 - 11:00 11:00 - 11:20 11:20 - 11:40	Flood-Driven Water Quality Impacts and Implications for Coastal Plain Communities: Part 2 Moderator: Natalie Nelson, NC State University Flood-driven connectivity across surface, ground and public supply waters and implications for drinking water quality, Diego Riveros-Iregui , University of North Carolina at Chapel Hill Environmental impacts of Hurricane Florence in the Cape Fear basin, Michael A. Mallin , University of North Carolina at Wilmington NC FIMAN: Hurricane Florence success stories and future vision, Gary Thompson , North Carolina Emergency Management
11:40 a.m. - 1:00 p.m. Room 2	Networking and Awards Luncheon Celebrate the 5th Annual Source Water Protection Awards, hosted by N.C. DEQ Division of Water Resources, and our WRRRI Annual Conference student poster competition winners
1:00 - 2:00 Room 3 1:00 - 1:20 1:20 - 1:40 1:40 - 2:00	Concurrent Session 8 Watershed Planning, Hydrology and Management: Part 2 Moderator: Ge Sun, U.S. Forest Service Towards multi-scale tracking of water movement across the soil-plant-atmosphere continuum using heated fiber optics, Chadi Sayde , NC State University Water use by common North Carolina trees, Johnny Boggs , USDA Forest Service Unsupervised hydrologic classification of rivers: Watershed controls on natural and anthropogenic flow regimes, Sarah Praskievicz , University of North Carolina Greensboro
Room 4 1:00 - 1:20 1:20 - 1:40 1:40 - 2:00	Groundwater: Part 2 – How Connected is Your Groundwater: Scientific and Legal Perspectives Moderator: Craig Caldwell, NC DEQ Division of Water Resources Quantifying coupled water and contaminant fluxes from groundwater systems to streams: Field methods and examples from North Carolina, David Genereux , NC State University Changes under foot: A legal perspective on potential changes to limits on surface water pollution through groundwater, Geoff Gisler , Southern Environmental Law Center Groundwater seeps: Portholes to observe groundwater contaminant transport to streams, Michael O'Driscoll , East Carolina University
Room 5 1:00 - 1:20 1:20 - 1:40 1:40 - 2:00	Collaboration in Shared Waterways: Sharing Lessons Learned with North Carolina Moderator: Stacey Feken, Albemarle-Pamlico National Estuary Program Establishing a policy response to instill flood resilience across city governance, Sue Kriebel , City of Virginia Beach Engaging Virginia Beach Residents Using the Action-Oriented Stakeholder Engagement for a Resilient Tomorrow (ASERT) Framework, Michelle Covi , Old Dominion University/Virginia Sea Grant Planning for flood resilience in Virginia Beach: Establishing a master plan on stormwater infrastructure and conceptual structural alternatives for city-wide flood risk reduction, C.J. Bodnar , City of Virginia Beach
Room 6 1:00 - 1:20	Impacts, Risk and Management of Extreme Climate Events Moderator: Corey Cavalier, RK&K Innovating approaches to drought communication with water resources managers, Rebecca Ward , State Climate Office of North Carolina

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1:20 - 1:40	Intensification of storms in Charlotte and the southeast United States: An event-based bulk analysis of selected USGS and NOAA gage records, Joel Nipper , City of Charlotte Storm Water Services Division
1:40 - 2:00	Developing the Hazardous Extremes Risk Assessment (HERA) tool, Ashley Ward , University of North Carolina at Chapel Hill
2:00 - 2:20 Room 1D	Networking Break
2:20 - 4:00 Room 3	Workshops and Participatory Sessions Get Outside: Teaching Water Literacy Outdoors Facilitators: Lauren Daniel and Amin Davis, NC DEQ Division of Water Resources
Room 4	Managing and Sharing Water Data Using Community Tools Facilitator: Liza Brazil, Consortium of Universities for the Advancement of Hydrologic Science
Room 5	Planning for Resilience in Coastal North Carolina and Beyond Facilitator: Stacey Feken, Albemarle-Pamlico National Estuary Program & NC DEQ
Room 6	Too Much, Too Little or Just Right? Drought Information Resources for Water Managers Facilitator: Rebecca Ward, State Climate Office of North Carolina
4:00 p.m.	Conference Adjourns – <i>Please sign the PDH/CEU sign-up form at the registration desk in order to certify your attendance today.</i>