

2020 WRRI Annual Conference Final Agenda

* Denotes this presentation covers current or previous WRRI-funded work

Wednesday, March 18

<p>7:15 - 8:15 a.m.</p> <p>Lobby</p> <p>Room 1A/1D</p>	<p>Registration</p> <p>Registration and load presentations</p> <p>Set up posters and exhibits, enjoy coffee and hot morning refreshments</p>
<p>8:15 - 9:15 a.m.</p> <p>Room 1B</p>	<p>Welcome and Keynote Address</p> <p>Susan White and Nicole Wilkinson McIntosh, NC Water Resources Research Institute</p> <p>The One Water Approach: Strategies for Collaboration Scott Berry, US Water Alliance</p>
<p>9:30 - 10:30 a.m.</p> <p>Room 1B</p> <p>9:30 - 9:40</p> <p>9:40 - 9:50</p> <p>9:50 - 10:00</p> <p>10:00 - 10:10</p> <p>10:10 - 10:20</p> <p>10:20 - 10:30</p>	<p>Concurrent Session 1</p> <p>Lightning Round and Poster Promos Moderator: Jobi Cook, NC Space Grant</p> <p>Poster Promo, Kirstin Lackstrom, Carolinas Integrated Sciences and Assessments and Corey Davis, State Climate Office of NC, Short-range weather outlooks and weekly drought updates from Project Nighthawk: An interactive poster experience</p> <p>Poster Promo, Kaitlin Bratt, NC State University, Characterizing similarity of federal environmental justice analyses</p> <p>Exhibit Promo, Merlyn Guevara, East Carolina University, Understanding coastal issues through virtual reality</p> <p>Lightning, Guy Iverson, Nutrient and microbe transport in surface waters at a hog farm with lagoon covers and anaerobic digestion: A preliminary assessment</p> <p>Lightning, Jacob Petersen-Perlman, East Carolina University, When and how the environment is considered in transboundary water agreements</p> <p>Lightning, Sharon Fitzgerald, US Geological Survey, Do sediment cores from Lake Sidney Lanier (Georgia) reflect on-site septic system phosphorus inputs?</p>
<p>Room 3</p> <p>9:30 - 10:00</p> <p>10:00 - 10:30</p>	<p>Tool Demonstrations Moderator: Lauren Vorhees, NC State University</p> <p>Hannah Barg, Triangle J Council of Governments, Clean Water Education Partnership and Lauren Daniel, NCDEQ, Using ArcGIS as an educational and public outreach tool</p> <p>Campbell McNutt, NC DEQ Division of Water Resources, NC Division of Water Resources watershed action plans stories – story map demonstration</p>
<p>Room 4</p> <p>9:30 - 9:50</p> <p>9:50 - 10:10</p> <p>10:10 - 10:30</p>	<p>Climate-Based Planning Moderator: Jen Schmitz, Triangle J Council of Governments</p> <p>Katie van Werkhoven, RTI International, Embracing uncertainty in water resources and flood risk assessment</p> <p>Rick Savage, Carolina Wetlands Association, Natural and working lands and climate change</p> <p>Michelle Schmidt, Tetra Tech, Evaluating climate change for the city of Durham's long-range water resources plan</p>
<p>Room 5</p> <p>9:30 - 9:50</p> <p>9:50 - 10:10</p> <p>10:10 - 10:30</p>	<p>Harmful Algal Blooms and Toxin Concerns Moderator: Isaac Hinson, Charlotte Storm Water Services</p> <p>Haley Plaas, UNC-Chapel Hill, Cyanobacterial microcystin production and aerosolization dynamics in the Chowan River-Albemarle-Pamlico Sound estuarine continuum, NC</p> <p>Fateme Barancheshme, UNC-Charlotte, UV/Cl₂ and UV/H₂O₂ advanced oxidation as treatment for algal toxins in drinking water *</p> <p>Astrid Schnetzer, NC State University, Cyanotoxins in North Carolina's freshwater and estuarine systems</p>
<p>Room 6</p> <p>9:30 - 9:50</p>	<p>Awareness, Engagement and Action Moderator: Joy-Lynn Rhoton, NC State University</p> <p>Christy Perrin, WRRI/North Carolina Sea Grant, Watershed Wisdom: A lesson plan from NC Watershed Stewardship Network and UNC-TV Science for advancing watershed literacy and action *</p>

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9:50 - 10:10	Rachel Taylor, NC Growth, The French Broad River: Leveraging river recreation to promote economic development
10:10 - 10:30	Kelly Suttles and Tatiana Height, UNC-Greensboro Center for Housing and Community Studies, Fostering engagement in the Cottage Grove neighborhood through community involvement in riparian cleanup to enhance stormwater quality *
10:30 - 10:50 a.m.	Networking Break
Room 1A/1D	Enjoy refreshments and exhibits
10:50 a.m. - 12:10 p.m.	Concurrent Session 2
Room 1B	Managing Human and Natural Infrastructure for Changing Extremes Moderator: Marilyn Mayer, NC State University
10:50 - 11:10	Julie DeMeester, The Nature Conservancy, The Sustainable Rivers program in the Cape Fear River
11:10 - 11:30	Rebecca L. Muenich, Arizona State University, Better understanding CAFO waste management for improved water quality
11:30 - 11:50	Ana Maria Garcia, US Geological Survey, Scoring restoration priorities in stream and watershed restoration and protection
11:50 - 12:10	Danica Schaffer-Smith, Arizona State University / The Nature Conservancy, Repeated hurricanes reveal risks and opportunities for social-ecological resilience to flooding and water quality problems
Room 3	Tool Demonstrations Moderator: John Fear, NC WRI
10:50 - 11:20	Julia Cavalier, UNC Environmental Finance Center, How can software design methods help environmental professionals?
11:20 - 11:50	Campbell McNutt, NC DEQ Division of Water Resources, Planning approaches to restoring urban streams in a Clean Water Act kind of way
Room 4	Water Economics in North Carolina Moderator: Eric Edwards, NC State University
10:50 - 11:10	Sara Sutherland, NC State University, The economics of nutrient credit trading in North Carolina
11:10 - 11:30	Roger von Haefen, NC State University, The value of water quality improvements in North Carolina's urban streams
11:30 - 11:50	Jordan Kern, NC State University, Hydrometeorological extremes in wholesale electricity markets
11:50 - 12:10	Jane Harrison, NC Sea Grant, Wastewater infrastructure tipping points: Prioritizing implementation of climate adaptation plans in decentralized systems
Room 5	Flood Mapping Moderator: Fateme Barancheshme, UNC-Charlotte
10:50 - 11:10	Hunter Freeman, WithersRavenel, Stormwater management in an ever-changing climate
11:10 - 11:30	Daniel Penczak, OTT HYDROMET, Proactive data collection for flood warning
11:30 - 11:50	Mathew Hornack, ESP Associates Inc., FIMAN-T: NCDOT's management and response to flood impacts
11:50 - 12:10	Curtis Weaver, US Geological Survey, StreamStats application: A brief refresher
Room 6	Drought in North Carolina: Research and Actions Being Taken to Improve Drought Understanding and Planning Moderator: Meredith Muth, NOAA/National Integrated Drought Information System (NIDIS)
10:50 - 11:10	Corey Davis, State Climate Office of NC, Drought and climate in 2019: A year in review for North Carolina
11:10 - 11:30	Rebecca Ward, State Climate Office of NC, Research to improve drought communication: applications to the water resources sector
11:30 - 11:50	Ruth Rouse, Orange Water and Sewer Authority, Incorporating drought into local and regional water supply planning
11:50 - 12:10	Jonathan Williams, HDR, Collaborative drought planning and response in the Catawba-Wateree and Yadkin-Pee Dee River Basins
12:10 - 1:30 p.m.	Networking and Awards Luncheon
Room 2	Celebrate the 6th annual Source Water Protection Awards hosted by Rebecca Sadosky, NC DEQ Division of Water Resources

Agenda continued

1:30 - 3:30 p.m.	<p>Concurrent Session 3</p> <p>Computer Lab</p> <p>Introduction to R for Water Resources Data Science: Hands On Training Facilitator: Sheila Saia, NC State University</p> <p>1:30 - 3:30 The Computer Lab is located in back corner of McKimmon Center, opposite of where other sessions take place. Please consult the map on page 3 or ask a WRRI staff member at the registration desk to help you locate it. See page 14 for special session details.</p>
Room 3	<p>Urbanization Impacts to Water Moderator: Campbell McNutt, NC DEQ Division of Water Resources</p> <p>1:30 - 1:50 Adam Gold, UNC Institute of Marine Sciences, Urbanization alters coastal plain stream carbon export and ecosystem function</p> <p>1:50 - 2:10 Rosemary Fanelli, US Geological Survey, How salty are our streams? Using high-frequency data to characterize chloride exceedance events above ecologically-relevant thresholds</p> <p>2:10 - 2:30 Ge Sun, USDA Forest Service, Modeling the effects of urbanization on watershed water yield and gross primary productivity (GPP) in the conterminous United States</p> <p>2:30 - 2:50 Sarah Praskievicz, UNC-Greensboro, Physical habitat and water quality of small streams draining areas of differing urban land use: North Buffalo Creek, Greensboro</p> <p>2:50 - 3:10 Charles Stillwell, US Geological Survey, Monitoring the French Broad River during highway construction</p> <p>3:10 - 3:30 Andrew Shannon, NASA DEVELOP, Using NASA earth observations to quantify the impact of urban tree canopy cover and evapotranspiration on urban heat and identify community vulnerability in Asheville, NC</p>
Room 4	<p>Modeling and Monitoring Nutrients in Rivers, Lakes and Estuaries Moderator: Alexis Swanson, NC State University</p> <p>1:30 - 1:50 Kimia Karimi, NC State University, Assessing long term variability in nutrient loading to Jordan and Falls Lake using hierarchical Bayesian modeling</p> <p>1:50 - 2:10 Daniel Obenour, NC State University, Assessing the potential for watershed loading reductions to reverse eutrophication in Jordan Lake through multi-decadal modeling</p> <p>2:10 - 2:30 Alix Matos, Brown and Caldwell and Forrest Westall, McGill Associates, Observations from the Upper Neuse River Basin Association's monitoring program, 2014-2018</p> <p>2:30 - 2:50 Lise Montefiore, NC State University, A parsimonious model and data integration framework for estimating runoff-driven estuarine nutrient loading</p> <p>2:50 - 3:10 Nicole Lindor, NC State University, Nutrient ratio effects on phytoplankton assemblages in a representative potable source-water reservoir of the Southeastern US *</p> <p>3:10 - 3:30 Diane Lauritsen, LIMNOSCIENCES, Sediment phosphorus comparisons between two shallow bay lakes in the North Carolina coastal plain</p>
Room 5	<p>Film Screenings</p> <p>2:00 - 2:40 <i>Dance for the River</i> and <i>Straws</i> – see page 4 for details</p> <p>2:50 - 3:30 Repeat screenings</p>
Room 6	<p>Wetlands Moderator: Kim Matthews, Carolina Wetlands Association</p> <p>1:30 - 1:50 Michael Burchell, NC State University, Citizen science to enhance wetland protection and education in NC</p> <p>1:50 - 2:10 Lucia Ibarra, Dogwood Alliance, What's it worth? An ecosystem services valuation for wetland forests in the US South</p> <p>2:10 - 2:30 Michael Burchell, NC State University, Removing detritus to rehabilitate older constructed wetlands used in wastewater treatment *</p> <p>2:30 - 2:50 Melinda Martinez, NC State University, Greenhouse gas emissions from standing dead trees in coastal forested wetlands</p> <p>2:50 - 3:10 Phil May, Carolina Ecosystems, Waters of the US: Changes and challenges in North Carolina</p> <p>3:10 - 3:30 Lindsey Smart, NC State University, Prioritizing targeted interventions to protect peatlands from sea level rise and saltwater intrusion with scenario-based modeling</p>
3:30 - 4:00 p.m.	<p>Networking Break</p> <p>Room 1A/1D</p> <p>Enjoy refreshments and exhibits; Round 1 of student poster judging.</p>

Agenda continued

4:00 - 5:00 p.m.	<p>Concurrent Session 4</p> <p>Room 1B Lightning Round & Poster Promos Moderator: Susan White, NC WRRRI</p> <p>4:00 - 4:10 Poster Promo, Kalli Unthank, NC Division of Water Resources, Statewide ambient ground water quality monitoring in North Carolina</p> <p>4:10 - 4:20 Poster Promo, Caleb Mitchell, Subsurface-flow gravel wetlands: An innovative tool for mimicking natural hydrology?</p> <p>4:20 - 4:30 Poster Promo, Zack Mondry, US Forest Service, Soil disturbance monitoring after timber harvest on national forests in Tennessee, Virginia, and North Carolina</p> <p>4:30 - 4:40 Lightning, Rob Hopper, CDM Smith, The first Beaver Deceiver in Raleigh</p> <p>4:40 - 4:50 Lightning, Kevin Nunnery, Biohabitats Inc., Urban ecology and water quality: Planning for future resiliency</p> <p>4:50 - 5:00 Lightning, Jason Wright, Tetra Tech, BMP prioritization for and TMDL compliance</p>
Room 3 4:00 - 5:00	<p>Focus on Function with Grasses and Sedges: Interactive Session Facilitator: Shannon Currey, Hoffman Nursery <i>See page 14 for special session details</i></p>
Room 4 4:00 - 5:00	<p>Strategies and Challenges for Implementing the One-Water Framework: Discussion Session Facilitator: Scott Berry, US Water Alliance <i>See page 15 for special session details</i></p>
Room 5 4:00 - 4:40	<p>Film Screenings</p> <p><i>Dance for the River</i> and <i>Straws</i> – see page 4 for details.</p>
Room 6 4:00 - 4:20 4:20 - 4:40 4:40 - 5:00	<p>Water Utility and Infrastructure Management Moderator: Mariya Munir, UNC-Charlotte</p> <p>4:00 - 4:20 Jannette Morris, Katy Hansen and Walker Grimshaw, Duke University, Creating a statewide digital map of community water system service areas</p> <p>4:20 - 4:40 Drew Blackwell, Cavanaugh and Associates, Piloting water loss control in North Carolina</p> <p>4:40 - 5:00 Samrin Ahmed Kusum, NC State University, Evaluation of fly ash as a cement replacement to reduce sewer collection system infrastructure maintenance and enhance sustainability *</p>
5:00 p.m.	<p>End of Sessions</p> <p>Please sign the PDH/CEU sign-up form at the registration desk in order to certify your attendance today.</p>
5:00 - 7:00 p.m.	<p>Poster Session and Networking Reception</p> <p>Join us for research poster presentations and a chance to meet the poster authors and network with conference participants and exhibitors. Enjoy live music, heavy hors d'oeuvres, plus beer from NC State University's Fermentation Science Program.</p> <p>Featured exhibits: <i>Dance for the River</i> photographic display ECU Academic Exhibit: Understanding coastal issues through virtual reality – hands-on activity <i>Water/Ways</i> by the Smithsonian and hosted by the NC Humanities Council</p>
Room 5 5:30 - 6:10 6:15 - 6:55	<p>Film Screenings</p> <p>5:30 - 6:10 <i>Dance for the River</i> and <i>Straws</i> – see page 4 for details</p> <p>6:15 - 6:55 Repeat screenings</p>

Thursday, March 19

7:15 - 8:15 a.m.	Registration
Lobby	Registration and load presentations
Room 1A/1D	View posters and exhibits, enjoy coffee and hot morning refreshments
Room 1B	Welcome
8:00 - 8:15 a.m.	Susan White, NC WRRRI and Melanie Moore Richeson, NC Humanities Council
8:30 - 10:30 a.m.	Concurrent Session 5
Room 1B	Featured Session: Plastics and Water Facilitator: Linda Booker, Director/Producer and Gloria Putnam, NC Sea Grant <i>See page 16 for special session details</i>
8:30 - 10:30	
Room 3	Finding a Baseline: The When, Where, and What for Longitudinal Water Quality Monitoring in NC: Panel Discussion Facilitators: Rachel Noble, UNC Chapel Hill; Angela Harris, North Carolina State University; Natalie Nelson, North Carolina State University <i>See page 15 for special session details</i>
8:30 - 10:00	
10:00 - 10:30	WOTUS 2020: Changes to the "Waters of the US" definition: Informal Discussion Facilitator: Phil May, Carolina Ecosystems <i>See page 15 for special session details</i>
Room 4	Stormwater Moderator: Jason Doll, KCI Associates of NC
8:30 - 8:50	Hunter Freeman, WithersRavenel, How can an iPhone improve green infrastructure?
8:50 - 9:10	Krysta Wilson and Todd Coolbaugh, Johnson C. Smith University, 2,2,6,6-Tetramethylpiperidinyloxy (TEMPO) oxidized cellulose nanofibrils as environmentally friendly flocculating agents for clarification of storm waters
9:10 - 9:30	Christopher Osburn, NC State University, Nutrient and carbon loading from the neighborhood: Effect of a summer storm
9:30 - 9:50	Jeffrey Johnson, NC State University, Bioretention media evolution: Design and maintenance implications
9:50 - 10:10	Trevor Clements, Tetra Tech, Overcoming the "doesn't GSI always cost more?" preconception barrier in Raleigh
10:10 - 10:30	Erin Rivers, NC State University, Let this soak in: Compost and wildflowers increase runoff capture in roadside soils
Room 6	Contaminants and Water Treatment Moderator: Mathew Hornack, ESP Associates
8:30 - 8:50	Kirsten Studer, UNC- Chapel Hill, Tracking the transformation of total iodine within a drinking water plant: Identifying treatment to limit iodinated disinfection byproduct formation *
8:50 - 9:10	Yazeed Algurainy, NC State University, Asymmetrical salt removals during water desalination using capacitive deionization
9:10 - 9:30	Samonty Das, UNC-Charlotte, Assessing the feasibility of nitrogen and phosphorous recovery as struvite from nutrient-rich wastewater
9:30 - 9:50	Sushama Pradhan, Onsite Water Protection Branch/NC DHHS, Pharmaceutical and personal care products (PPCPs) in the wastewater and groundwater
9:50 - 10:10	Gary MacConnell, MacConnell & Associates P.C., On-site reuse of highly treated domestic wastewater provides many benefits for single family residence
10:10 - 10:30	Jean-Rene Thelusmond, NC State University, Estimates of the occurrence of per- and polyfluoroalkyl substances in landfill leachate and wastewater in North Carolina
10:30 - 10:50 a.m.	Networking Break
Room 1A/1D	Enjoy refreshments and exhibits
10:50 a.m. - 12:10 p.m.	Concurrent Session 6
Room 1B	We're from the Government and We're Here to Help: Case Studies in Effective Action on Drinking Water Problems Moderator: Evan Kane and Amy Keyworth, Wake County
10:50 - 11:05	Emily Williamson Gangi and Jill Moore, UNC School of Government, NC Drinking Water Incident Response Toolkit

Agenda continued

11:05 - 11:20	Andrew George, UNC-Chapel Hill, Community science: Bringing together local government and academia to study post-hurricane water contamination in North Carolina private wells
11:20 - 11:35	Evan Kane and Amy Keyworth, Wake County, Outreach to private well owners on the potential for radionuclide contamination
11:35 - 11:50	Robert Lassiter, Irongate Neighborhood Resident; Jackie MacDonald Gibson, Indiana University; Shawn Purvis, Town of Apex; and Alicia Arnold, Wake County, Irongate & Apex: Open doors culminate in resolution of a community's private well problems
11:50 - 12:10	Panel Discussion
Room 3	Understanding and Responding to Flood Risks and Impacts Moderator: Daniel Wiebke, McAdams
10:50 - 11:10	Stanley Riggs, North Carolina Land of Water, Flood dynamics of the lower Roanoke and Cashie Rivers and their interaction with the Albemarle-Chowan estuarine system
11:10 - 11:30	Dori Sabeh, McGill Associates, Rhodes Pond hydrologic/hydraulic analysis and labyrinth weir design
11:30 - 11:50	Jack Kurki-Fox, NC State University, Evaluating the capacity of natural infrastructure for flood abatement at the watershed scale
11:50 - 12:10	Tanvir Pasha, NC State University, Tracking the sources of fecal contamination in surface water after Hurricane Dorian in coastal North Carolina
Room 4	Ecological Flows, Water Resources and Water Availability in the Coastal Plain Moderator: Stacey Feken, Albemarle-Pamlico National Estuary Partnership
10:50 - 11:10	Chris Goudreau, NC Wildlife Resources Commission, The basics of ecological flows and recommendations of the Ecological Flows Science Advisory Board
11:10 - 11:30	Robert R. Christian, Stanley R. Riggs, East Carolina University and NC Land of Water, Progress on ecological flows within the coastal plain
11:30 - 11:50	Mike O'Driscoll, East Carolina University, Water resources data to support coastal plain ecological flow assessment in the Albemarle-Pamlico Basin
11:50 - 12:10	Klaus Albertin, NC Department of Environmental Quality, Preliminary findings of the North Carolina Climate Science Report
Room 5	Film Screenings
10:50 - 11:30	<i>Dance for the River</i> and <i>Straws</i> – see page 4 for details.
11:30 - 12:00	Informal meet and greet and discussion with <i>Straws</i> film director, Linda Booker
Room 6	Saltwater Intrusion Moderator: Rick Savage, Carolina Wetlands Association
10:50 - 11:10	Marcelo Ardon, NC State University, Long-term water quality trends in a restored coastal wetland experiencing saltwater intrusion *
11:10 - 11:30	Diana Rashash, NC Cooperative Extension, An Investigation into indicators and drivers of saltwater intrusion to North Carolina's coastal agricultural regions
11:30 - 11:50	Justine Neville, NC State University, Fast and slow dynamics of surficial saltwater intrusion
11:50 - 12:10	Yener Ulus, UNC-Greensboro, Effects of seawater intrusion on mercury cycling in coastal wetlands at Albemarle-Pamlico Peninsula, North Carolina *
Room 2	Networking and Awards Luncheon
12:10 - 1:30 p.m.	Christine Rucker, About "Dance for the River" and the role of arts and environmental photography in conservation awareness; NC Water Resources Association/WRRRI student poster competition awards
1:30 - variable	Concurrent Session 7 Note: All sessions start at 1:30 p.m., but end times vary; start times for Concurrent Session 8 are staggered accordingly
Room 1B	PFAS: Complexities and Considerations for Research and Management: Featured Session Facilitators: Lee Ferguson, Duke University and Detlef Knappe, NC State University See page 17 for special session details
1:30 - 3:30	
Room 3	US Geological Survey Water Data Jam: A Spotlight on Present and Future Water Data: Participatory Session: Facilitator: Krissy Hopkins, US Geological Survey See page 15 for special session details
1:30 - 3:00	
Room 4	Wastewater Treatment Along North Carolina's Changing Coastlines Moderator: Jane Harrison, NC Sea Grant
1:30 - 1:50	Michael O'Driscoll, East Carolina University, Does more groundwater mean less treatment? The influence of sea level rise and coastal storms on septic systems

Agenda continued

1:50 - 2:10	Eric Edwards, NC State University, The economics of improving coastal wastewater treatment under a changing climate
2:10 - 2:30	Lindsay Dubbs, UNC Coastal Studies Institute, People, water, and septic: A coastal case study in Nags Head, NC
2:30 - 2:50	Lawrence Cahoon, UNC-Wilmington, Climate change is challenging our waste treatment infrastructure
Room 5	Film Screenings
1:30 - 2:10	<i>Dance for the River</i> and <i>Straws</i> – see page 4 for details
Room 6	The Iowa Watershed Approach: Building a Flood Resilient Iowa and Implications for NC Managers: Discussion Session Facilitated by: Larry Weber and Witek Krajewski, Iowa Flood Center, Paxton Ramsdell, Environmental Defense Fund See page 16 for special session details
1:30 - 2:30	
Room 1A/1D	Floating Networking Break
2:50 - 3:45	Note that afternoon break is extended to accommodate variable end times and start times between Concurrent Sessions 7 and 8; Last opportunity to view posters and exhibits before they are removed
Varying start times	Concurrent Session 8
Room 1B	PFAS Complexities and Considerations for Research and Management
3:45 - 5:00	<i>Continued from Concurrent Session 7</i>
Room 3	Monitoring Microbial Surface Water Quality in the Aftermath of Hurricane Florence Moderator: Elizabeth Christenson-Diver, UNC-Chapel Hill
3:10 - 3:50	Sophia Kathariou, NC State University, Part 1: <i>Arcobacter butzleri</i>
3:50 - 4:10	Rachel Noble, UNC-Chapel Hill, Part 2: <i>Vibrio</i> spp.
4:10 - 4:30	Collin Coleman, UNC-Chapel Hill, Part 3: <i>Salmonella</i> and <i>Campylobacter</i>
4:30 - 4:50	Elizabeth Christenson-Diver, UNC-Chapel Hill, Part 4: <i>E. coli</i>
Room 4	North Carolina's Statewide Water Resources Planning and Implementation Moderator: Craig Caldwell, NC Department of Environmental Quality
3:10 - 3:50	Campbell McNutt, NC DEQ Division of Water Resources, The NC water supply water quality assessment process
3:50 - 4:10	Bruce Campbell, US Geological Survey, USGS water resource projects in North Carolina
4:10 - 4:30	Kim Nimmer, NC DEQ Division of Water Resources, IBT 101: What are interbasin transfers?
4:30 - 4:50	Linwood Peele, NC DEQ Division of Water Resources, Water supply planning: Current and future water demand update
Room 5	Interdisciplinary Perspectives on Sustainable Animal Agriculture and Waste Management in NC: Participatory Session Facilitated by: Stephen Moysey and Jacob Petersen-Perlman, East Carolina University See page 16 for special session details
3:10 - 5:00	
5:00 p.m.	Conference Adjourns Please sign the PDH/CEU sign-up form at the registration desk in order to certify your attendance today.