

Poster #	Primary Presenter Name	Organization / Affiliation	Title
Agriculture			
AG-1	Elizabeth Christenson-Diver	UNC-Chapel Hill	Modeling the Effects of Confined Swine Operations on Microbial Quality of Surface Water
AG-2	Andrew Hillman	NC State University	High Resolution Assessment of Miscanthus Production Environmental Impact
AG-3	Lise Montefiore	NC State University	Using satellite imagery to reconstruct the past: a case study of historical swine CAFO growth
AG-4	Hossam Moursi	NC State University	Potential Water Quality and Flood Mitigation Benefits of on-Farm Water Capture and Use for Irrigation: Preliminary Results of a Field Experiment in Eastern North Carolina
AG-5	Mahmoud Shehata	NC State University	Monitoring the Spatial Variability of Soil Moisture and Precipitation Partitioning in an Agricultural Field using Fiber-optic Distributed Temperature Sensing System
AG-6	Julianna Tresca	UNC-Wilmington	The Agricultural Industry and Global Groundwater System Issues
Climate Change			
CC-1	Steve Anderson	NC State University	Leaf physiology responses of coastal tree species exposed to a gradient of sea water concentrations.
CC-2	Corey Davis	State Climate Office of North Carolina	What's in the forecast? Communicating weather outlooks and possible impacts for North Carolina
CC-3	Kirsten Lackstrom	Carolinas Integrated Sciences & Assessments (CISA)	What does drought look like this week?
CC-4	Amanda Farris	Carolinas Integrated Sciences & Assessments (CISA)	Condition Monitoring in the Carolinas: Improving Our Understanding of Weather-Related Impacts
CC-5	Elnaz Pezeshki	East Carolina University	Uncertainty assessment of the impact of climate change on weather extreme events in Ghara Sou river basin, Iran
CC-6	Sheila Saia	NC State University	Improved Accuracy of Watershed-Scale Climate Model Runoff Using Deep Neural Networks
Contaminants and Treatment			
CT-1	Douglas Call	NC State University	Electroactive point-of-use filtration systems for enhanced removal of per- and polyfluoroalkyl substances from drinking water
CT-2	Qiwen Cheng	NC State University	Biological activated carbon system harboring microorganisms that exchange electrons with activated carbon
CT-3	Henry McCormick	UNC-Wilmington	Predicting lateral hyporheic exchange in the lower Cape Fear River: a tool for estimating fluxes of GenX and other emerging contaminants
Groundwater			

GW-1	Ryan Ackett	NC State University	Novel Low-Cost Weighing Lysimeter to Monitor Crop Water Use and Deep Percolation
GW-2	Rachel Coyte	Duke University	
GW-3	Zack Mondry	US Forest Service	Soil Disturbance Monitoring after Timber Harvest on National Forests in Tennessee, Virginia, and North Carolina
GW-4	Andy Neal	NC Division of Water Resources	Statewide Ambient Groundwater Quality Monitoring In North Carolina: An Aquifer Comparison
GW-5	Hayden Rudd	NC State University	Impact of Hurricane Florence on Water Quality of North Carolina Coastal Aquifers
GW-6	Caitlin Skibiell	East Carolina University	"Spatial and Temporal Variability of Nitrogen Concentrations in Groundwater Near Two Onsite Wastewater Systems Assessed Using Field Sensors and Laboratory Methods"

Harmful Algal Blooms

HAB-1	Malcolm Barnard	UNC-Chapel Hill	Efficacy of Using Fluoroprobe for Rapid Chlorophyll a and Phytoplankton Group Differentiation During Bloom Conditions
HAB-2	Monica Camacho	NC State University	
HAB-3	Lindsay Roth	Duke University	Morphology and Land Use Predictors of Harmful Algal Blooms in North Carolina Reservoirs and Lakes
HAB-4	Aidan Smith	NC State University	Examining Cyanotoxin Food Web Contamination in the Chowan River, NC
HAB-5	Natalie Von Tress	NC State University	Tracing the transport of algal blooms from reservoir to estuary using satellite imagery and in situ hydrologic data
HAB-6	Caroline Watson	Duke University	Chemical and Biological Predictors of Harmful Algal Blooms in North Carolina Lakes and Reservoirs

Management and Policy

MP-1	Kaitlin Bratt	NC State University	Characterizing Similarity of Federal Environmental Justice Analyses
MP-2	Kristine Swann	Duke University	Nutrient criteria policy review and site-specific threshold application in North Carolina reservoirs

Rivers and Streams

RS-1	Emily Darr	Freese and Nichols, Inc. / NC State University	The Answer is in the Roots - Development of Probabilistic Bank Erosion Analysis Curve by Integrating Root Dendrogeomorphology and Flow Duration Curves
RS-2	Jackie Hartman	UNC-Charlotte	The Impact of Whole-Watershed Urban Stream Restoration on Macroinvertebrate Communities
RS-3	Rebecca Hatley	NC State University	Evaluation of 2-D Hydrodynamic Models to Improve Scour Predictions and Countermeasures
RS-4	Nicholas Marzolf	NC State University	Long-term trends in nutrients in geothermally-modified groundwater influenced lowland tropical streams, Costa Rica

RS-5	Kristina Morales	UNC-Greensboro	Total- and methyl-mercury concentrations in two recently created UNCG wetlands and their nearby streams
RS-6	Alonso Ramirez	NC State University	The Rocky Branch stream ecosystem, NCSU campus: the beginning of a long-term study
RS-7	Abhinav Sharma	NC State University	An integrated approach to evaluate the propagation of sediment pulses following dam removals: A case study from the Elwha River dams.
RS-8	Alexis Swanson	NC State University	Variability of Soil Properties and Erodibility Parameters of Streambanks: An Empirical Approach and its Implications on Erosion Rate Predictions across the North Carolina Piedmont Region
RS-9	Jordan Williams	NC State University	Anthropogenic Litter (Trash) inputs in NCSU campus streams
Stormwater, BMPs, and Green Infrastructure			
SBG-1	Natasha Bell	East Carolina University	Ecological treatment technologies to reduce nutrients and pathogens in runoff and drainage waters
SBG-2	Chase Bergeson	NC State University	Assessing the Spatial Distribution of Soil Infiltration Through Rainfall-Runoff Modeling and Participatory Mapping for the Prioritization of Urban Stormwater Management
SBG-3	Thomas DeBell	NC State University	A Novel Method for Measuring Water Flux Density - Implementing Pulse Heated Fiber Optics to Uncover Flow Paths and Treatment Volumes of Regenerative Storm Water Conveyance Systems (RSC)
SBG-4	Lori Farley	East Carolina University	ASSESSMENT OF PERMEABLE INTERLOCKING CONCRETE PAVERS TO MANAGE SURFACE RUNOFF IN AN URBAN WATERSHED
SBG-5	Elly Gay	NC State University	Watershed response to land use and climate change in North Carolina
SBG-6	Christina Kranz	NC State University	Nutrient and metal leaching losses from compost-soil blends
SBG-7	Caleb Mitchell	NC State University	Design Guidance that Influences Development of Hydric Soils in Subsurface-flow Gravel Wetlands Constructed to Treat and Control Stormwater Runoff
SBG-8	Jingyi Qi	UNC-Charlotte	Understanding the cognitive barriers to green infrastructure– an agent-based approach for adoption and diffusion modeling
SBG-9	Stephen Richardson	NC State University	Carbon Cycling within Small Impoundments in a Changing Landscape, Wake County North Carolina
SBG-10	Amanda Roberts	NC State University	Modeling the effects of buffer placement and wetland conservation in the Cape Fear Watershed
SBG-11	Hailey Shoptaugh	NC State University	Effects of Forest Management Practices on Aquatic Macroinvertebrates in Carl Alwin Schenck Memorial Forest
SBG-12	Zhenzhen Zhang	NC State University	Green infrastructure in schoolyards as valued places for children to play and learn