



Wednesday, November 8

## Poster Session 1

14:15	Nayeli Sanchez	Effects of Nutrients and Environmental Factors on Algae and Fish Communities
14:15	Thomas Pacious	Species Diversity of Mayfly (Ephemeroptera) Nymphs in the Lower Ogeechee River Basin
14:15	Chelsea Scheirer	Cladophora microbiome community composition response to temperature
14:15	Augustine Sitati	Does low shredder diversity compromise functional and litter decomposition metrics as indicators of ecological conditions in Afrotropical headwater streams?
14:15	Ashley LaRoque	Population Density and Body Size Drives Fish Movement
14:15	Ian Brunetz	What is the effect of flow on freshwater mussel growth rates across multiple river basins?
14:15	Haley Vaglianti	Aquatic beetles in Southern Appalachian hemlock conservation areas
14:15	Emma Greenberg	Notes on the distribution of endangered mussels in the Lower Flint River Basin
14:15	David Breault	Arrival and departure windows of Atlantic sturgeon in the Chesapeake Bay, United States

14:15	Hannah Swain-Menzel	Detection and Modelling of Darters and Madtoms: eDNA surveillance of imperiled southeastern fishes
14:15	Frank Akamagwuna	Variability in energy sources across agricultural land-use gradient of an Afrotropical river system: Insights from the Kat River, South Africa
14:15	Natalie Griffiths	Understanding the Role of Heterogeneous Land Cover and Hydrologic Regimes on Stream and Watershed Hydrobiogeochemical Function: A Research Overview
14:15	Jacob Dorris	Influence of Flow Intermittency on Leaf Litter Decomposition in Forested Gulf Coastal Plain Streams
14:15	Sarah Kelley	Using nutrient diffusing substrata to explore nutrient limitation in a managed forested watershed in Alabama
14:15	Stephen Plont	Developing Resources for Intermittent Stream Metabolism
14:15	Benjamin Trost	Using machine learning approaches to explore land use effects on stream particulate and dissolved chemistry across the United States
14:15	Kenneth De León Colón	Investigating the Role of Environmental Factors in the Dissemination of Antimicrobial Resistance in Surface Water
14:15	Emma Lacy	Quantifying Algal and Nutrient Concentrations in Urban Stormwater and Beaver Ponds
14:15	Rachel Dingley	

## Poster Session 2

15:45	Chelsea Smith	Abiotic drivers of diversity in an intermittent watershed
15:45	Carolyn Cummins	Temperature effects on macroinvertebrate communities across seasons and elevations in headwater streams of the southern Appalachians
15:45	Molly McKeon	A Community Assessment of Aquatic Invertebrates and Fishes of the Ogeechee River
15:45	Isaac Wood	Microsporidian Midge Mystery: Chironomidae emergence timing in relation to Daphnia outbreaks
15:45	Henna Gavem	Effects of Dietary Algae as Fishmeal Replacement on Survival and Growth of the Sea Urchin, <i>Lytechinus variegatus</i>

15:45	Troy Keller	Effect of Astaxanthin Augmented Diet on Pigmentation, Growth, and Survival of an Invasive Crayfish, ( <i>Procambarus clarkii</i> )
15:45	Charlie Kloppenburg	Enhancing drought resiliency through improved stream-floodplain connectivity on the Ceour d'Alene reservation
15:45	Sergio Sabat-Bonilla	We can implement it, but will they come? Unraveling the patchy responses of benthic macroinvertebrates to conservation practices along regional and landuse gradients.
15:45	Molly Almon	Do habitat changes downstream of small dams have consistent effects on the performance of Nocomis micropogon (River Chub) and <i>Nothonotus rufilineatus</i> (Redline Darter)?
15:45	Sydney Haney	Shenandoah springs as a refuge for rare and threatened macroinvertebrates
15:45	Kelley Sinning	Benthic macroinvertebrate secondary production dynamics along a mining-induced salinity gradient
15:45	Rachel Scarlett	Shifts in Stream Ecological Function with Increasing Urbanization
15:45	Deandre Presswood	Quantifying how differing hydrologic disturbance events in conjunction with varying land use effect stream metabolism
15:45	Zach Gordon	The impact of salinity on leaf litter decomposition and a freshwater isopod
15:45	Nicole Tripp	Response of Red Swamp Crayfish to increasing current velocities: attraction or repulsion?
15:45	Sarah Shainker-Connelly	Integrating amplicon sequencing and community science to survey the biodiversity of organisms with complex life cycles
15:45	Sophie Barnett	Quantifying Macroplastic Pollution in the Catawba River Basin
15:45	Checo Colon Gaud	Research and Mentoring Opportunities in Coastal Ecosystems
15:45	Donya Mohamed	Someone's Salty: How Rising Salinities in Urban Streams in the DC-metropolitan Area are Affecting the Functions of Freshwater Mussels
15:45	Madison Rollins	Risk Analysis on Septic Drain Fields and their Effect on Athens-Clarke County, Georgia Watersheds

# Thursday, November 9

## Oral session 1

### *Conservation*

9:00	Josh Millwood	The molecular and physiological responses to thermal stress of four unionid species
9:15	Lillie Sweeney	Synoptic mussel surveys for the development of a Habitat Conservation Plan in the lower Flint River Basin
9:30	Natalie Horn	Using an Acoustic Doppler Current Profiler to model impacts of variable stream flows on habitat at the reach scale
9:45	Bijoy Kumar Ghosh	Hydraulic Impact on Fish Migration in a Sariakandhi Fish Pass of Bangladesh

### *Methodological advances*

9:00	Kelsey Solomon	Comparing diatom weighted averaged phosphorus optima between two regions in the greater Everglades ecosystem using a new subsampling method
9:15	Audrey Thellman	River productivity under ice: Leveraging satellite imagery, field cameras, and sensors to understand river ecosystem phenology in a changing climate
9:30	Rachael Rowe	Applications of eDNA metabarcoding as a biomonitoring method for freshwater invertebrates
9:45	Nikki Jones	Machine Learning for Autonomous Benthic Macroinvertebrate Identification

### *Ecosystem ecology*

9:00	Zacharie Loveless	Particulates All the Way Down: Hydrologic and Land Use Controls on Particulate Quantity and Bioavailability
9:15	Nick Marzolf	Rejecting advection, or doing ecosystem science in rivers when they stop flowing
9:30	Amanda DeVecchia	The Piedmont Pea Pod: Longitudinal heterogeneity in greenhouse gas dynamics
9:45		

## Oral session 2

### *Human dimensions and water quality*

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|-------|------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 10:30 | Aubrey Dyer      | Water Quality Service Learning in Study Abroad: Lessons from Costa Rica                                                        |
| 10:45 | Jessica Sterling | Neighborhood Water Watch: Solving Urban Water Quality Problems with Community Science                                          |
| 11:00 | Audrey Goeckner  | Comparing dissolved organic carbon quality and greenhouse gas saturation between constructed and natural ponds                 |
| 11:15 | Benjamin Webster | Reservoir Hydrologic Residence Time Drives Nitrogen Deposition in Reservoirs in the Apalachicola-Chattahoochee-Flint Watershed |
| 11:30 | Raymond Kidder   | Impacts of Salinity Intrusion on the Ecology of Georgia Barrier Island Wetlands                                                |
| 11:45 |                  |                                                                                                                                |

### *Organismal ecology*

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| 10:30 | Cassandra Waldrop | Prey availability and imidacloprid detection in aquatic salamanders in the Southern Appalachians                                                         |
| 10:45 | Alexandra Theisen | Comparing Amphiuma means in mainland and coastal Georgia                                                                                                 |
| 11:00 | Viviana Bravo     | Evaluation of aquatic macroinvertebrates communities and habitats using molecular and morphological identification in streams at the Savannah River Site |
| 11:15 | Brooke Grubb      | An exploratory assessment of crayfish morphology for phylogenetic inference within species complexes                                                     |
| 11:30 |                   |                                                                                                                                                          |
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### *Ecosystem ecology*

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| 10:30 | Jonathan Lopez | A novel self-contained chamber design for benthic ecosystem experiments in streams |
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10:45	Matthew Lodato	Using a novel benthic chamber design to assess functional trait mediated effects of animal aggregations on ecosystem processes
11:00	Anika Grosse	From benthic to hyporheic: how light and macronutrient ratios shape functional and structural biofilm responses
11:15	Amy Rosemond	Warmer streams may support less aquatic life through altered carbon pathways
11:30		
11:45		

### Oral session 3

#### *Community ecology*

14:00	Elizabeth Sicking	Does past wetland hydrology influence macroinvertebrate communities in isolated wetlands?
14:15	Nathan Wisnoski	Diversity-stability relationships across organism groups and ecosystem types become decoupled across spatial scales
14:30	Irene Sánchez González	Morphological Classification of North American Freshwater Mussels Reveals Patterns of Habitat Use Across Spatial Scales
14:45		

#### *Ecosystem ecology*

14:00	Nguyen Tien Anh Quach	You are what you eat - Investigating basal carbon sources and transformations in stream food webs
14:15	Jonathan Behrens	Connecting Aquatic Primary and Secondary Production in Urban and Forested Watersheds
14:30	Adam Siders	Manatee feces link freshwater to marine ecosystems through subsidizing invertebrate secondary production
14:45	Alexis Jackson	Drivers of wetland carbon storage across the United States