

Monday, May 22

4:00 - 8:00 PM Arrival, Attendee pick-up and Registration at The Classic Center (300 N Thomas St., Athens, GA 30601)
 4:00 - 6:00 PM Informal Gathering and Sponsor Table Set Up at The Classic Center
 6:00 PM Taste of Athens - Grub and Pub Crawl

Tuesday, May 23

7:00 - 9:00 AM Continental Breakfast, Registration and Poster set-up
 8:00 AM Student Design Competition Meeting
 8:30 - 10:30 AM Welcome and Plenary Session -
 Invited Speakers:

Joan Nassauer
 University of Michigan

Joe Mulligan dn Chelina Odbert
 Kounkuey Design Initiative

10:30 - 11:50 AM Concurrent Technical Sessions

Ecological Restoration		Innovations in Measurement and Data Collection		Stormwater Management	
Winter	Measuring Water Quality Impact of a Coastal Plain Stream Restoration during construction	Hession	UAV-Based LIDAR for Agricultural and Environmental Mapping	Shrestha	Effects of Different Soil Media, vegetation, and hydrologic treatment on nutrient and sediment removal and greenhouse gas dynamics in
Jennings	D'Olive Watershed Restoration Projects to Reduce Sedimentation in Mobile Bay	Withers	Using Bowen's Ratio to Calculate Crop Coefficients for a Shrub/Carr Wetland	Tamkin	Using carbon isotopes to measure the reduction of hydrocarbons by bioretention
Robinson	What is natural anyway? Toward a hybrid design approach for restoring streams in the anthropocene	Connell	Application of the High Definition Stream Survey on the Harpeth and Falling Water River	Houston	Characterization and sorption capacity of four biochars for stormwater filtration
Law	Restoring Old Fields: Plant Community Responses to Burning, Tilling, and Mowing	Hoffman	Correlating Watershed Remote Sensing Observations with Source Water Quality	Holzbauer-Schweitzer	Evaluating Low Impact Development Best Management Practices as an Alternative to Traditional Urban Stormwater Management

12:00 PM Lunch - Invited speaker: Darryl Haddock, West Atlanta Watershed Alliance

1:30-2:30 PM Concurrent Technical Sessions

Ecological Connectivity		Sustainable Food Systems		Engaged Education	
Elkins	The devils in the ditches: spatially-explicit tools for multi-scale prioritization to restore aquatic connectivity	Schramski	Engineering Food Security in the Anthropocene	Walteros	Ecological Engineering: Source of inspiration for an innovative approach in elementary, middle and high school curriculum
Jackson	Can riparian forest cover cool streams that have warmed in the sun?	Blersch	Building a research-scale aquaponics system - Recovering nutrients for food production	Aird	A Wastewater Treatment Wetland at a School Monitored for Performance in Washington, D.C.
Panda	Geospatial Technology-Based Kemp's Ridley Sea Turtle Habitat Suitability Analysis in Florida for Conservation Decision	O'Keefe	Residential Food Production: Solar Decathlon 2017	Turk	An Environmental Course Design: Philosophy and Causality for the Understanding, Planning, and Management of

Tuesday, May 23 - Continued

2:40-3:40 PM Concurrent Technical Sessions

Wastewater Treatment and Resuse		Fluvial Geomorphology		Urban Ecosystems	
Balcom	Metagenomic analysis of an ecological wastewater treatment plant's microbial communities and their potential to	Keys	Assessing the Impacts of Large Wood on Flooding Dynamics in a Headwater Appalachian Stream	Witusynski	The influence of local landscape features on birds in a residential neighborhood of a large midwestern city
Haase	Alternative On-Site Wastewater Treatment Technologies to Reduce Biochemical Oxygen Demand, Total Suspended Solids, Oil and Grease,	Lammers	A new intermediate complexity model for predicting channel evolution in stream networks	Winfrey	Older stormwater biofilters lose plant diversity but not functional diversity
Goo	Net-Zero Water: Residential Greywater Filtration	Govenor	Rare Earth Element Tracers Reveal Fine Sediment Mobilization and Deposition in a First Order Stream	Hitchcock	Evaluating Ecohydrological Function and water quality benefits to support green infrastructure decision-making in coastal South Carolina
Vazquez-Burney	Replenishing Silver Springs with a Multifunctional Wetland Park	Stroth	Full Spectrum Analytical Channel Design with the Capacity/Supply Ratio (CSR)	Francis	Improving Biodiversity of Urban Waterfronts: Algae in Cement to Increase Biofouling and Colonization

3:50-5:10 PM Concurrent Technical Sessions

Constructed Wetlands		Bioenergy and Applications		Socio-cultural Dimensions	
Aguilar	Constructed Treatment Wetlands for tropical conditions: a Costa Rica case study	Witarsa	Creating Bioenergy from Algal Flow Way using Anaerobic Digestion	Capps	Integrating stoichiometric thinking into socio-ecological systems: relationships among ecology, wastewater infrastructure, and environmental
Lewis	Long-term Evaluation of a Stormwater Wetland Park: Vegetation Diversity through Hydroperiod Restoration	Lansing	Nutrients, Agriculture, and Bioenergy: Innovations to close the nutrient loop	Jayakaran	Integrating hydrologic, cultural, and socioeconomic elements in a watershed to optimize GSI efficacy
Burchell	Can strategic location of constructed wetlands designed to treat low strength rural wastewater accelerate improvements in	Hasan	Model Development To Assess Transformation of Inorganic Nutrient to Microalgal Biomass	Klarenberg	Changes in a socio-ecological system: vegetation dynamics and highway paving in the SW Amazon
		Hassanein	Bio-slurry in Plant Microbial Fuel Cells for Electricity Generation		

6:30 PM Buses Depart from The Classic Center for Terrapin

7:00 - 9:00 PM Odum School of Ecology Welcome Dinner Reception at Terrapin Brewery

9:00 PM Buses Return to The Classic Center

Wednesday, May 24

9:00 - 10:20 AM Concurrent Technical Sessions

Resilient Coastlines		Antibiotics and Nutrients in Agricultural Applications		Urban Innovation and Revitalization	
Hall	Ecological Engineering Design for Coastal Bioengineered Structures	Wind	Persistence of culturable antibiotic-resistant Escherichia coli from manure amended vegetable fields	Robinson	Engineering Design of Green Roofs for Stormwater Control
Risse	Research needs related to Living Shorelines in the Southeast: a new role for Ecological Engineers	Schueler	Fate and Transport of Antibiotics and Nutrients in Dairy Manure Management Systems	Williams	The Turner Field Redevelopment: A Landmark Opportunity for Green Infrastructure and Urban Stormwater Management
Peterson	Modeling effects of anthropogenic barriers on salt marsh migration under sea-level rise in coastal Georgia	Jacobs	Indicator bacteria, sediment, and antibiotic-resistance gene transport via runoff from vegetable plots amended with manure	Hickman	Regenerative Stormwater Conveyance: Predictions and Reality
Calabria	Using EC to Understand Mechanisms that Drive plant Alliance Shifts in Coastal Settings	Bell	Plants for vegetated channels in nurseries: Evaluation of seven aquatic plant species for susceptibility to five	Johnston	Life Cycle Impacts of a Commercial Rainwater Harvesting System and Sustainability Analysis Using a Modified Eco-Efficiency

Wednesday, May 24 - Continued

10:40 AM - 12:00 Concurrent Technical Sessions

Stream Habitats and Environmental Flows		Tools for Decision Support		Nutrient Removal and Analysis	
Bhattacharjee	Habitat provision associate with environmental flows	Panda	Potential Sinkholes Risk Probability Analysis through Automated Geospatial Modeling	Cubas	Effective Depth Controls the Nitrate Removal Rates in a Water Supply Reservoir with a High Nitrate Load
Kline	Identification of primary habitat and water quality stressors of aquatic macroinvertebrates across West Virginia using a	Remillard	Bridging the Gap: Connecting NASA Earth Observations and Decision Makers to Support Environmental Management Practices	Home	Can we achieve needed nutrient BMPs using River Diversion Wetlands (RDWs) to remove nutrients and reverse eutrophication in lakes, reservoirs, Large-scale Mississippi River diversions designed for coastal restoration:
Stephens	Low flow trends at southeast U.S. streamflow gages	TBD	TBD	Roy	What is the eutrophic risk?
Hoffman	Water supply system modeling for evaluating alternatives to balance instream and off-stream flow needs			Morshed	Effects of the oxidation-reduction potential on sediment ammonia desorption in surface waters

12:00 PM Lunch

1:30 PM - 4:00 PM Local Field Tours

4:00 PM - 5:30 PM Poster Session

Thursday, May 25

8:30 - 9:50 AM Concurrent technical sessions

Wetland Restoration and Management		Phytoremediation		TBD	
Bartholomew	Impacts of historic groundwater alteration and recovery on wetland soil functions in isolated cypress domes of west	Davis	Using a Second Generation Biofuel Crop for Phytostabilization of Contaminated Military Lands	TBD	
Kurki-Fox	Characterizing the background water quality for natural wetlands in North Carolina and the implications on wetland	Huynh	Phytometabolism of sulfamethazine by Arabidopsis thaliana	TBD	
Uribe	Functional diversity of Andean wetland vegetation and its role in water supply	McCutcheon*	Proteomics of Phytoremediation	TBD	
Schmidt	Forested Wetland Conservation on the Coastal Plain in Georgia				

9:50 - 10:10 AM Break

10:10 - 11:10 AM Concurrent technical sessions

Contamination Analysis and Remediation		Urban Planning and Resilience		TBD	
Narin	Stream recovery in a mining-impacted watershed- Ecotoxic metal removal in passive treatment systems through targeted	Bledsoe	Probabilistic floodplain mapping as a template for planning urban revitalization	TBD	
Panda	Lake Tahoe Aquifer Contamination Susceptibility Analysis through Fully-automated DRASTIC Groundwater	Castano	Climate Change Game Model - A tool to deliver better public policies to adapt to climate change	TBD	
Beutel	Nitrate addition as an ecotechnology to reduce mercury bioaccumulation in aquatic ecosystems: The Occoquan Reservoir	Swan	Tackling resiliency resistance: Lessons learned from three years of flood recovery on Colorado's Front Range	TBD	
Fuhrmann	The Use of Hypolimnetic Oxygenation to Restore Ecosystem Function in the Bottom of Lakes and Reservoirs				

12:00 - 1:00 PM Lunch

1:00 - 2:00 PM Business Meeting

2:00 PM Depart Classic Center for Coastal Georgia Field Trip - See website for additional details

3:00 PM Informal Activity

Friday, May 26

8:00 AM - 3:30 PM Atlanta Green Infrastructure Tour - See website for additional details

8:00 AM - 8:00 PM Coastal Georgia Field Trip