

Monday, June 11

4:00-8:00 PM Arrival, Attendee pick-up and Registration at The Hilton Post-Oak (2001 Post Oak Blvd, Houston, TX 77056)
4:00-6:00 PM Informal gathering and sponsor table setup at The Hilton Post-Oak

Tuesday June 12

7:00-9:00 AM Continental Breakfast, Registration and Poster Set-up in the Ballroom
8:00 AM Student Design Competition Meeting in Concorde
8:30-10:30 AM Welcome and Plenary Session
Invited Speakers: Bill Mitsch FGCU and Michael Bloom
10:30-11:50 AM Panel Discussion
12:00 PM Lunch
Invited Speaker: Lee Forbes
1:30-2:50 PM Concurrent Technical Sessions

Location: Ballroom C

Concorde

Forum

Stormwater Management I <i>Moderator: Tiffany Messer</i>	Resilient Coastal Communities <i>Moderator: Eban Bean</i>	Wastewater Treatment and Reuse <i>Moderator: Robert Nairn</i>
<p>Linking urban hydrology and baffle box performance to support sustainable stormwater management in the city of Tampa - <i>Awet Tsegay</i></p> <p>Algal "Terp" Scrubber – <i>Jacob Mast</i></p> <p>Assessment of the impact of plants and fungi on bioretention performance for stormwater management – <i>Alex Taylor</i></p> <p>Evaluation of Field-Scale Stormwater Bioretention Structure Flow and Pollutant Load Reductions in a Semi-arid Coastal Climate – <i>Ahmed Mahmoud</i></p>	<p>Stormwater and tidal hydraulics in an urban watershed: land use change impacts – <i>Hannah Kuhl</i></p> <p>Analytical modeling of coastal dune erosion at South Padre Island; A consideration of the effects of vegetation roots and shear strength - <i>Johnson Ajedegba</i></p> <p>Evaluating Ecohydrological Function and Water Quality Benefits to Support Green Infrastructure Decision-Making in Coastal South Carolina - <i>Daniel Hitchcock</i></p> <p>Urbanization effects on Low Order Coastal Plain Stream Quality - <i>Eban Bean</i></p>	<p>Drivers and Barriers for Alternative Water Resources – <i>Shashi Kant</i></p> <p>Alternative Usage Cases for Pressure Retarded Osmosis Power Generation – <i>Joshua Benjamin</i></p> <p>Hydrologic Budgets and Conservative Ions: Neglected Tools in Ecologically Engineered Treatment System Performance Evaluation – <i>Robert Nairn</i></p> <p>Feasibility of Co-digestion to Manage Organic Solid Waste and Wastewater Solids from Yosemite National Park, USA – <i>Julia Burmistrova</i></p>

Tuesday, June 12 (Continued)

3:00-4:50 PM

Concurrent Technical Sessions

Location: Ballroom C

Concorde

Stormwater Management II <i>Moderator: Ani Jayakaran</i>	Sustainable Food Systems <i>Moderator: Eric Roy</i>	Student Design Competition
<p>Performance of Permeable Pavements to Improve Stormwater Quality – <i>Ani Jayakaran</i></p> <p>Promoting Successful Urban Watershed Restoration through Enhanced Bioretention Cell Modeling – <i>Whitney Lisenbee</i></p> <p>Blueprint Columbus: Watershed Scale Impacts of Over 400 Bio-infiltration Cells on Stormwater Flow and Quality, and Public Health – <i>Jay Martin</i></p> <p>Converting Dry Detention Basins to Constructed Stormwater Wetlands for Enhanced Pollutant Removal – <i>Katy Mazer</i></p>	<p>World without Cows: An exploration of costs/benefits of global dairy – <i>Marty Matlock</i></p> <p>Designing a 21st Century Food System in Hawaii – <i>Marty Matlock</i></p> <p>Physicochemical properties of combined dairy manure and food waste digestates & their use for cultivation of <i>Pleurotus ostreatus</i> - <i>Brendan O'Brien</i></p> <p>Envisioning a sustainable circular nutrient economy in New England – <i>Eric Roy</i></p>	<p>Dedicated time slot for students to attend concurrent technical sessions or work on the design competition</p>

6:30 PM

Buses depart from The Hilton Post-Oak for St. Arnold Brewery

7:00-9:00 PM

Welcome Dinner Reception at St. Arnold Brewery

9:00 PM

Buses return to The Hilton Post-Oak

Wednesday, June 13

7:00-8:30 AM Continental Breakfast

8:30-10:20 AM Concurrent Technical Sessions

Location: Ballroom C

Concorde

Forum

Urban Ecosystems and Innovations <i>Moderator: Marty Matlock</i>	Streams: Ecological Restoration <i>Moderator: Roderick Lammers</i>	Antibiotics, Pesticides, and Nutrients in Agriculture <i>Moderator: Dawn Reinhold</i>
<p>Urban Watershed Design: A Framework in Conway, AR – <i>Marty Matlock</i></p> <p>The effect of large-scale bioretention installation on an urban avian community: Year 1 – <i>David Wituszynski</i></p> <p>Optimizing water efficiency, sustainable site design, and stormwater management: A case study on the first LEED Platinum Green Building in Montgomery County, Texas – <i>Ryan Bare</i></p>	<p>Stream Restoration: Removal of Hibiscus Tiliaceus in Kahana Valley, O’ahu - <i>Kelly-Rose Lariosa</i></p> <p>Urban river restoration: A case study from the South Platte River, Denver, Colorado - <i>Roderick W. Lammers</i></p> <p>Designing Tricky Channels with An Ecological Perspective. Oak Springs Case Study – <i>Staryn Wagner</i></p>	<p>Mitigating the risk of atrazine in surface waters across Nebraska – <i>Samuel Hansen</i></p> <p>Manure Management in the Maumee River Watershed: How do Intentions Align with Actions? – <i>Jeffrey Kast</i></p> <p>Fate of antibiotics and their phytometabolites in plant-soil ecosystems – <i>Khang Huynh</i></p>

10:30 AM-11:50 PM Concurrent Technical Sessions

Location: Ballroom C

Concorde

Forum

Ecological engineering Theory and Practice <i>Moderator: Patrick Kangas</i>	Streams: Geomorphology <i>Moderator: Trisha Moore</i>	Decision Making Tools <i>Moderator: Tim Stephens</i>
<p>Ecological Engineering in Arizona Through the Decades – <i>Emily Goo</i></p> <p>De facto ecological engineering design: A project-driven perspective – <i>David Austin</i></p> <p>Green concrete: a comparison of concrete substrates for macroinvertebrate colonization – <i>Samantha Francis</i></p> <p>Ultra-high Resolution Geospatial Data Based Model Development for Okeefenokee Swamp Wildfire Potential Analysis - <i>Sudhanshu Panda</i></p>	<p>Resurrecting an Urban Stream: The Smith Branch Daylighting Project in Columbia, SC – <i>Joshua Robinson</i></p> <p>In-Stream Stone Structures: Hydraulic Design and Long-term Function - <i>Joshua Robinson</i></p> <p>Integrated Design for Integrated Systems - combining geomorphic and engineering design to maximize channel, floodplain, and wetland functions – <i>Travis Stroth</i></p> <p>Woody Revetments – <i>Trisha Moore</i></p>	<p>Lake Lanier Watershed Management Decision Support System Development with Geospatial Technology Supported Hydrologic Modeling Approach- <i>Sudhanshu Panda</i></p> <p>Development of Decision Making Tool (DMT) for Stormwater Detention Requirements in LRGV, Texas - <i>Taufiqul Alam</i></p> <p>Mapping flood hazards under uncertainty: A template for integrated floodplain management – <i>Tim Stephens</i></p> <p>A Modeled Based Design of a Stream Monitoring Program for Austin, Texas – <i>Abel Porras</i></p>

Wednesday, June 13 (Continued)

12:00 PM Lunch
 1:00-5:00 PM Local Field Tours
 5:00-6:30 PM Poster Session (See presentation list on page 5) - Ballroom C

Thursday, June 14

7:00-8:30 AM Continental Breakfast
 8:30-9:50 AM Concurrent Technical Sessions

Location: Ballroom C Concorde Forum

Engaging Education <i>Moderator: Sarah Hews</i>	Constructed wetlands <i>Moderator: Alex Horne</i>	Reservoir Quality <i>Moderator: Bryan Fuhrmann</i>
<p>Catching the Rain and Some Attention with Campus Demonstrations of Green Infrastructure – <i>Andrea Ludwig</i></p> <p>Integrating ecosystems and society: Utilizing the Stream Trailer to reach TRWD Audiences - <i>Michelle Wood-Ramirez</i></p> <p>REEU Program at TAMU: Getting Undergraduate Students Excited about Onsite Wastewater Treatment & Reuse – <i>Anish Jantrania</i></p> <p>Teaching Ecological Engineering Using a Project-Based, International Collaboration – <i>Thomas Franti</i></p>	<p>Intensification of free water surface wetlands for nutrient removal- <i>David Austin</i></p> <p>Nutrient Treatment Potential of Floating Treatment Wetlands - <i>Mary Keilhauer</i></p> <p>Denitrification trenches; are they the beginning of the end for treatment wetlands or the end of the beginning? - <i>Alex Horne</i></p>	<p>The role of forest conservation and restoration in securing hydropower needs of Cambodia - <i>Mauricio E. Arias</i></p> <p>Mercury Cycling in California Reservoirs: Takeaways and Management Strategies to Repress Bioaccumulation – <i>Byran Fuhrmann</i></p> <p>The Role of Algal Biomass Growth on Nutrient and Metal Interactions at the Sediment-Water Interface - <i>Tang Zepei</i></p>

10:00 AM -11:50 AM Final Technical Session

Ballroom C

Student Competition Videos and Results

12:00 PM Lunch
 1:00 – 2:00 PM Business Meeting

Poster Session Wednesday June 13 from: 5:00-6:30 PM

<u>Poster Presenter</u>	<u>Title</u>
Lin, James	Analysis of Vermicompost as a Supplemental Nutrient Solution for Aquaponic Prawn Systems to Grow Basil
Garner, Joe	Assessing the Use of Harvested Algae as Fertilizer
Tasker, Miriam	Analysis of Vermicompost as a Supplemental Nutrient Solution for Aquaponic Prawn Systems to Grow Basil
Cianfrani, Christina	Modeling Nitrogen Transformations in Greywater Treatment Constructed Wetlands in a Living Building on the Hampshire College Campus
Haberstroh, Charlotte	Modelling Plastic Debris in Freshwater Systems
Morales, Castulo	Production of Ethanol from Citrus Waste via Limonene Extraction and Fermentation
Myers, Harrison	Phosphorus Cycling at the Sediment-Water Interface of Vermont Stormwater Ponds
Martinez, Jaycee	Mercury bioaccumulation in the aquatic food web of a eutrophic reservoir, Hodges Reservoir, California
Rome, McNamara	Beyond Nutrient Reduction: The Role of Biological Factors in Reversing Eutrophication in Shallow Lakes
Nesbit, Taylor	Seasonal and Hurricane Irma effects on the hydrology and nutrient pulsing of a subtropical urban stormwater treatment wetland in southwest Florida
Baillargeon, Natalie	Undergraduate Research in a Collaborative Community: Inquiries Inspired by Hampshire College's Sustainable Operations Initiatives
Lammers, Roderick	Modeling watershed phosphorus and sediment loading from river erosion while accounting for uncertainty
Collins, Georganna	natural and Nature-based Features for Coastal Protection
Kangas, Patrick	Sediment Removal Performance of a Green Bulkhead System
Kangas, Patrick	The Performance of Experimental Algal Turf Scrubbers Inside of Biosphere 2
Kangas, Patrick	Structure of a Constructed Savannah Woodland Inside of Biosphere 2
Ingram, Tajuddin	Ecological Rebuilding: Incorporating ecological technologies a design/build project
Choudhury, Abhinav	Renewable biochar for hydrogen sulfide and nutrient reduction in anaerobic digesters
Gentry, Terry	Experiential Onsite Wastewater Treatment & Reuse REEU Program at Texas A&M University
Schueler, Jenna	Fate and Transport of Antibiotics and Nutrients in Anaerobic Digestion Systems
Helmstadter, Raini	Effects of Rainfall Intensity on Occurrence and Magnitude of Pollutant Loads in Harvested Rainwater
Ludwig, Andrea	Low Head Dam Sediment Characterization in Southeast Tennessee Second Order Stream
Buhr, Daniel	Stream Daylighting for Educational Benefit: A Case Study in a Complex Urban Environment
Lagomarsino, Matt	Living Systems of reACT

