University of Florida Water Institute
2018 Symposium
February 6-7, 2018 Gainesville, Florida
University of Florida Campus
J. Wayne Reitz Union

#ufwater18

Sustainable Water Resources
Complex Challenges, Integrated Solutions

Shaping Our Water Future
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Acknowledgements

We gratefully acknowledge the contribution of the following people who helped make this Symposium a success.

Symposium Program Committee
• Cynthia L. Barnett, UF Graham Center and College of Journalism and Communications
• Drew Bartlett, FL Department of Environmental Protection
• Paula Cobb, Duke Energy
• Christa Court, UF Food and Resource Economics Department
• Matthew J. Cohen, UF School of Forest Resources and Conservation
• Todd Crowl, Florida International University
• Joseph J. Delfino, UF ESSIE/Environmental Engineering Sciences
• Steve Dwinell, FL Department of Agriculture and Consumer Services
• Casey Fitzgerald, St. Johns River Water Management District
• Richard Hutton, Gainesville Regional Utilities
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• Jim Laing, South Florida Water Management District
• Kati W. Migliaccio, UF Department of Agricultural and Biological Engineering
• Martha C. Monroe, UF School of Forest Resources and Conservation
• Temperince Morgan, The Nature Conservancy of Florida
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University of Florida Water Institute Staff
• Megan Almaguer, Program Assistant
• Mary Garvin, Administrative Specialist II
• Carol Lippincott, Research Coordinator III
• Lisette Staal, Research Coordinator III

Volunteers
Volunteers include graduate and undergraduate students from the Department of Agricultural and Biological Engineering, Department of Anthropology, Department of Environmental and Global Health, Engineering School of Sustainable Infrastructure & Environment, School of Natural Resources and Environment, College of Public Health and Health Professions, UF/IFAS Extension, Environmental Horticulture Club, Wetlands Club and Water Institute Graduate Fellows program.

#ufwater18
Welcome from the University of Florida

President

W. Kent Fuchs

Faculty, students and special guests, on behalf of the University of Florida, welcome to the 6th Water Institute Symposium!

In a water-dependent state, the work of UF’s Water Institute and this impressive symposium always strike me as both urgent and timely. This year’s symposium is particularly so, occurring on the heels of a year of extreme rains, record flooding in Florida and other regions and continuing concerns about the health and abundance of Florida’s freshwater resources – from the Everglades to the signature springs that surround us here in North Florida.

None of these challenges can be solved in isolation or without input and direction from across the sciences and public policy landscapes. That’s what makes this symposium and its tradition of bringing together scientists, industry representatives, public policy leaders, environmental advocates, communicators, students and others so vital.

Since the UF Water Institute was established in 2006, it has done much to further science, education and policy surrounding a broad array of freshwater issues. In this achievement, the institute embodies UF and our mission of serving the public good as one of the nation’s leading research universities. I am proud of the Water Institute’s contributions to freshwater science from Gainesville to the globe. I thank each of you for your part in this scholarship, and for your participation in this year’s symposium.

I wish you a thought-provoking, engaging and inspiring gathering – one with a positive and lasting impact on an issue that is critical to all the world.

Sincerely,

W. Kent Fuchs
President, University of Florida

Senior Vice President for Agriculture and Natural Resources

Jack Payne

Dear symposium guests,

Welcome to two days with some of the most influential thought leaders in Florida water. The sixth UF Water Institute Symposium brings together people from academia, government, industry, the non-profit sector, and the humanities who have water on the brain all the time.

These are the folks who will, as the symposium’s title suggests, help shape our water future. We are glad to see you among them.

Whether you’re on the podium or in the audience, your presence here contributes to a larger cause. We at the University of Florida’s Institute of Food and Agricultural Sciences support the UF Water Institute as part of our mission to promote the sustainable use of our most precious natural resource.

Lately we’ve hired five regional specialized Extension agents for water, assembled a team of new faculty focused on creating a less thirsty model for the development of new Florida neighborhoods, and opened a research station that will reinforce our sustainability approach to water use in the agricultural region of Suwannee Valley.

There are so many ways to come at the science of water. We hope you’ll help us discover even more.

Thank you for attending.

Sincerely,

Jack Payne
Senior Vice President for Agriculture and Natural Resources
UF Institute of Food and Agricultural Sciences

UF Water Institute Director

Wendy Graham

Dear Colleagues,

Thank you for joining us for the 6th UF Water Institute Symposium.

This symposium provides an intellectually stimulating venue that links leading researchers, educators and students with resource managers, policymakers, non-governmental organizations, authors and artists interested in exploring interdisciplinary solutions to current water challenges.

Over the course of the next two days over 160 contributed oral, poster and panel presentations will focus on drivers and impacts of change on Florida’s coastal, wetland, spring, river and aquifer systems. Tradeoffs among development, conservation and restoration strategies will be examined, and potential solutions for sustaining our water systems will be explored.

Water problems are often categorized as wicked problems because our scientific understanding is incomplete, our goals contradictory, and complex interdependencies result in unexpected outcomes. We welcome you to join with us to ask difficult questions, listen to unexpected answers, engage in constructive dialog, and learn from those outside your area of expertise so that together we can envision and chart a path to a sustainable water future.

Thanks again for attending the 6th UF Water Institute Symposium. We value your contributions and encourage your active participation.

Wendy Graham
Carl S. Swisher Chair in Water Resources
Director University of Florida Water Institute
Event Floor Plan - 2nd Floor - J. Wayne Reitz Union
**Agenda - Tuesday, February 6, 2018**

7:30 AM - 8:30 AM  
Registration and Check-In  
Registration Desk

8:30 AM - 10:00 AM  
Opening Plenary Session  
Grand Ballroom
- Dr. Wendy Graham, Director, University of Florida Water Institute
- Dr. Jack Payne, Senior Vice President for Agriculture and Natural Resources, University of Florida
- Harry Sideris, State President—Florida, Duke Energy Florida

Keynote:  
- Sandra Postel, Director, Global Water Policy Project  
  *Replenish: The Virtuous Cycle of Water and Prosperity*

Sponsored By: Duke Energy

10:00 AM - 10:30 AM  
Book Signing  
Reception Lobby
Sandra Postel will be available to sign her new book *Replenish: The Virtuous Cycle of Water and Prosperity.*

10:00 AM - 10:30 AM  
Refreshment Break  
North Hallway

10:30 AM - 12:00 PM  
Forest Ecohydrology  
Room 2315
(Moderator: David Kaplan, Environmental Engineering Sciences, ESSIE, University of Florida)
- Subodh Acharya, Postdoctoral Researcher, School of Forest Resources and Conservation, University of Florida  
  *Forest Management for Water Conservation: Understanding Drivers of Forest Water Use and Yield*
- Damian Adams, Associate Professor, School of Forest Resources and Conservation, University of Florida  
  *Economic tradeoffs between carbon sequestration and water yield in southern pine forests*
- Kathryn McCurley, Graduate Research Fellow, PhD Program, University of Florida  
  *Impacts of decreasing tropical forest cover on local hydrologic regimes*
- Patrick J. Minogue, Associate Professor of Silviculture and Extension Specialist, University of Florida  
  *Effect of harvesting pine straw on ammonia volatilization following polymer-coated and non-coated urea fertilizer applications on a North Florida slash pine plantation*
- Ana Carolina Oliveira Fiorini, PhD candidate, University of Florida  
  *Participation in a Payment for Environment Service: “ Produtores de Água e Floresta” case study*

Sponsored By: AWRA Florida

10:30 AM - 12:00 PM  
Engaging Stakeholders in Developing Solutions to Water Issues  
Room 2320
(Moderator: Paula Cobb, Duke Energy)
- Tirusew Asefa, Planning & System Decision Support Group Lead, Tampa Bay Water  
  *Understanding Climate Variability and Climate change in Planning for Future Water Supply: A Stakeholder-Scientist Collaborative Approach*
- Charles Barrett, Water Resources RSA, UF/IFAS Extension  
  *The Suwannee River Partnership Education Team improves communication, builds relationships and improves adoption of Best Management Practices*
- Jessica Ann Bolson, Research Scientist, Florida International University  
  *A stakeholder-science based approach for understanding urban water sustainability challenges across the U.S.*
10:30 AM - 12:00 PM  

**Water and Regional Science**  
Room 2335

Economic prosperity, quality of life, and the environment are all inextricably linked by water. The interdisciplinary field of regional science – with its focus on the important roles of local and regional processes to socioeconomic performance and sustainability, its explicit treatment of spatial relationships, and its increasing attention devoted to modeling the linkages between the human system and the environment – is ideally suited to contribute high quality, policy relevant research on water.

*(Moderator: Christa Court, Food and Resource Economics Department, University of Florida)*

- Christa D. Court, Assistant Scientist, Food and Resource Economics Department, University of Florida
  *Water and Regional Science*
- Kieran Patrick Donaghy, Professor, City and Regional Planning, Cornell University
  *Integrated Assessment Modeling of Regional Water Infrastructure Problems*
- Xiang Bi, Assistant Professor, Food and Resource Economics Department, University of Florida
  *Public Preferences for Water Resource Management of the Ocklawaha River*
- Jad Ziolkowska, Assistant Professor, University of Oklahoma
  *Desalination for Future Water Supply in the US - Economic, Environmental and Social Issues*

*Sponsored By: Southern Regional Science Association*

10:30 AM - 12:00 PM  

**Agricultural Water and Nutrient Management 1**  
Room 2365

*(Moderator: Jim Laing, South Florida Water Management District)*

- Kevin Athearn, Regional Specialized Extension Agent, Rural and Agribusiness Development, IFAS Extension, University of Florida
  *Improvements in Water and Nutrient Management by Suwannee Valley Watermelon Growers*
- Lincoln Zotarelli, Associate Professor, Horticultural Sciences Department, University of Florida
  *Nitrogen fertilizer management for potatoes under different irrigation systems*
- Maria Isabel Zamora Re, Graduate Student, University of Florida
  *BMPs evaluation at field scale to reduce nitrogen leaching without impact on corn yield*
- Unmesh Koirala, Graduate Student, School of Forest Resources and Conservation, University of Florida
  *Enterprise-level Economic Impacts of Agricultural BMP adoption to Meet Florida Water Quality and Quantity Standards*

*Sponsored By: Tampa Bay Water*

10:30 AM - 12:00 PM  

**Challenges & Opportunities for Spring System Restoration 1**  
Auditorium

*(Moderator: K. Reddy, Soil and Water Sciences Department, University of Florida)*

- Casey Fitzgerald, Director, Springs Protection Initiative, St. Johns River Water Management District
  *Restoration of Florida’s Iconic Springs: Legislative, “Turn Dirt” and Scientific Solutions*
- James Jawitz, Professor, Soil and Water Sciences Department, University of Florida
  *Through the hidden veins of the earth: How do water and solutes get to Silver Springs?*
- Rob de Rooij, Research Assistant Scientist, University of Florida Water Institute
  *Conduit and Fracture Flow Modeling*
Agenda - Tuesday, February 6, 2018

12:00 PM - 1:30 PM
Buffet Luncheon

1:30 PM - 3:00 PM
Wetland Ecosystems

(Moderator: Joseph Delfino, Environmental Engineering Sciences, ESSIE, University of Florida)

- Patrick W. Inglett, Associate Professor, Soil and Water Sciences Department, University of Florida
  Identifying N Sources and Transformations in the Silver Spring Springshed, USA
- Andy Canion, Supervising Environmental Scientist, St. Johns River Water Management District
  Geospatial Modeling Approaches to Support Springs Protection Projects at SJRWMD

Sponsored By: Gainesville Regional Utilities
Grand Ballroom

1:30 PM - 3:00 PM
Sharing Information: Effective Communication Strategies

(Moderator: Martha Monroe, School of Forest Resources and Conservation, University of Florida)

- Ian Hahus, PhD Candidate, University of Florida
  Exploring the space-time continuum: the influence of model resolution and timestep on the performance of a landscape-scale wetland model
- Joann Mossa, Professor, Geography, University of Florida
  Decreased Floodplain Inundation and Lateral Connectivity of the mid-Apalachicola River following Dredging-Related Channel Changes
- Robert V. Sobczak, Hydrologist, Big Cypress National Preserve
  The Hydrology of the Big Cypress Before Canals (and the Myth of the Rain-Driven Swamp)
- Laura Isabel Lotero, Graduate Student, University of South Florida
  The Role of High-Elevation Parámo Wetlands in Generation of Streamflow and Water Supply in the Northern Andes, Colombia

Sponsored By: AWRA Florida
Room 2315

1:30 PM - 3:00 PM
Estuarine Ecology and Water Quality

(Moderator: Matthew Cohen, School of Forest Resources and Conservation, University of Florida)

- Mike Wessel, Vice President, Janicki Environmental
  Developing an innovative nutrient management strategy for Southwest Florida Tidal Creeks by Linking Source Water Concentrations, Instream Processes, and Estuarine Dynamics
- John R. Cassani, Calusa Waterkeeper
  In Support of Re-instating the Florida Harmful Algal Bloom Task Force: Establishing New Strategies for Monitoring, Prediction and Public Notification
- Joshua Papacek, PhD Student, University of Florida
  Bottom-up Controls of Recent Harmful Algal Blooms in the northern Indian River Lagoon, FL

Sponsored By: OUC-The Reliable One
Room 2335
Agenda - Tuesday, February 6, 2018

1:30 PM - 3:00 PM
Agricultural Water and Nutrient Management 2
(Moderator: Jim Laing, South Florida Water Management District)

1:30 PM - 3:00 PM
Challenges & Opportunities for Spring System Restoration 2
(Moderator: Peter Sucsy, St. Johns River Water Management District)

3:00 PM - 3:30 PM
Refreshment Break

3:30 PM - 5:00 PM
Water Quality Issues
(Moderator: Joseph Delfino, Environmental Engineering Sciences, ESSIE, University of Florida)
Agenda - Tuesday, February 6, 2018

3:30 PM - 5:00 PM Challenges & Opportunities for Everglades System Restoration  Room 2335
(Moderator: Peter Frederick, Department of Wildlife Ecology and Conservation, University of Florida)
- Del Bottcher, President and Senior Engineer, Soil and Water Engineering Technology, Inc.
  Load Estimation Tool for the Lake Okeechobee Watershed
- Masanori Fujimoto, Research Assistant Professor, Soil and Water Sciences Department, University of Florida
  Microbe-mediated nutrient transformation in the Everglades Stormwater Treatment Areas (STAs)
- Younggu Her, Assistant Professor, Tropical Research and Education Center/Agricultural & Biological Engineering, University of Florida
  Lake Okeechobee inflow projection using an agricultural watershed model
- Yogesh Khare, Environmental Engineer, Everglades Foundation
  Heuristic assessment of restoration strategies to achieve phosphorus target in Lake Okeechobee
- Rajendra Paudel, Hydrologist, Everglades Foundation
  Water Quality and Ecological Responses to Hydrologic Restoration Options in the Everglades

Sponsored By: INTERA Incorporated

3:30 PM - 5:00 PM Who Are They? Understanding Audiences to Design or Improve Programs  Room 2320
(Moderator: Martha Monroe, School of Forest Resources and Conservation, University of Florida)
- Sadie Hundemer, PhD Student, University of Florida
  Into the minds of stakeholders: Using mental models to enhance communication and collaboration in water policy
- Jyothi Swaroop Bommidi, Graduate Student, University of Florida
  Exploring Rural and Urban Residents Perceptions on Agriculture Water Use
- Maria C. Morera, Postdoctoral Researcher, University of Florida
  Targeting audience segments for outdoor water conservation: A comparison of high and low irrigators in central and southwest Florida
- Chelsey Crandall, Postdoctoral Research Associate, University of Florida
  Community-involvement in watershed management: Surveying citizens along the Indian River Lagoon

Sponsored By: OUC-The Reliable One

3:30 PM - 5:00 PM Use of Technology to Shape our Water Future  Room 2365
(Moderator: Kati Migliaccio, Department of Agricultural and Biological Engineering, University of Florida)
- Eric S. McLamore, Associate Professor, Department of Agricultural and Biological Engineering, University of Florida
  Mobile phone-based nanosensor diagnostics for planetary health
- William R. Eisenstadt, Professor, Department of Electrical and Computer Engineering, University of Florida
  Wireless Weather Stations and Maintenance Training for Haitian Agriculture
Agenda - Tuesday, February 6, 2018

3:30 PM - 5:00 PM  Challenges & Opportunities for Spring System Restoration 3
(Moderator: Todd Osborne, Soil and Water Sciences Department, University of Florida)
- Matthew Cohen, Professor, School of Forest Resources and Conservation, University of Florida
  Primary Production in Spring-Fed Rivers
- Thomas Frazer, Director and Professor, University of Florida, School of Natural Resources and Environment
  From Algae to Alligators: Exploring Trophic Structure in Florida’s Spring-Run Ecosystems
- Sean King, Professional Engineer, Southwest Florida Water Management District
  Salinity pulses and manatee herbivory as drivers of submerged aquatic vegetation community changes in coastal Florida spring systems
- Robert A. Mattson, Environmental Scientist V, St. Johns River Water Management District
  Synoptic Survey of Algal Communities in 14 Florida Spring-Run Streams

Sponsored By: Gainesville Regional Utilities

5:15 PM - 5:30 PM  Poster Judges Briefing  Room 2320
5:00 PM - 7:30 PM  Reception with appetizers and cash bar  Grand Ballroom
5:30 PM - 7:30 PM  Poster Session  Grand Ballroom
(Moderator: Carol Lippincott, University of Florida Water Institute)

Poster Themes (see page 23 for list of poster presenters)
- Agricultural/Silvicultural Water
- Climate Change/Hydrology
- Coastal Waters
- Human Water Needs/Use
- Stream/River Dynamics
- Water Quality - Water Management
- Wetlands

Sponsored By: OUC-The Reliable One
  Tampa Bay Water
  Duke Energy
  Carl S. Swisher Foundation
8:30 AM - 10:00 AM  

**Urban Water and Nutrient Management 1**  
Room 2315  
(Moderator: Rick Hutton, Gainesville Regional Utilities)
- Eban Bean, Assistant Professor & Extension Specialist, Department of Agricultural and Biological Engineering, University of Florida  
  *Mitigating Compaction in New Residential Developments: Effects on Urban Vadose Zone Hydrology and Soil Quality*
- Chris Keller, President, Wetland Solutions, Inc.  
  *Kanapaha hybrid stormwater/reclaimed water recharge wetland*
- Alexander J. Reisinger, Assistant Professor, Soil and Water Sciences Department, University of Florida  
  *Development and validation of low-cost sensor platforms for monitoring urban water quality*
- Sanjay Shukla, Professor, Department of Agricultural and Biological Engineering, University of Florida  
  *Hydraulically Circumventing Phosphorus Release from Aged Stormwater Detention Systems*

**Sponsored By:** Amec Foster Wheeler

8:30 AM - 10:00 AM  

**Water Policy, Planning and Management**  
Room 2320  
(Moderator: Spiro Stefanou, Food and Resource Economics Department, University of Florida)
- Stan Bronson, Executive Director, Florida Earth Foundation  
  *A Global Strategic Initiative: Actionable Solutions for International Water Management*
- Eric Tyler Olsen, Attorney, Hopping Green & Sams  
  *Water Supply Planning - Road map to Florida’s water supply and growth future*
- Christine Prouty, Research Assistant, University of South Florida  
  *Context-Sensitive Approaches to Water/Wastewater Management in a Coastal Environment: A Case Study from Southern Belize*
- Roger William Sims, Partner, Holland & Knight  
  *Protecting and restoring Florida’s water resources: a legal perspective*
- Robert D. Teegarden, Water Policy & Research Officer, OUC - The Reliable One  
  *Carbon Utilization - Florida’s potential pathway and processes for converting to the bioeconomy—Research and the prospects for collaborating across the energy, water and agriculture sectors*

**Sponsored By:** INTERA Incorporated

8:30 AM - 10:00 AM  

**Coastal Flooding, Storm Surge and Sea Level Rise**  
Room 2335  
(Moderator: Todd Crowl, Florida International University)
- Matlack Edward Gillin, Student, University of Florida  
  *Meteotsunami Occurrence and Propagation in the Northeastern Gulf of Mexico*
- Sangdon So, Postdoctoral Associate, University of Florida  
  *Storm surge from Hurricane Irma along the Florida Peninsula*
- Matthew Conlin, Graduate School Fellow Research Assistant, University of Florida  
  *Investigating the drivers of coastal flooding hazards through observations of coastal landscape evolution: a case study at NASA-Kennedy Space Center, Cape Canaveral, Florida*
- Arnoldo Valle-Levinson, Professor, Civil and Coastal Engineering, ESSIE, University of Florida  
  *Linkage between sea-level rise hot-spots in the Southeastern United States and the Gulf of Mexico*
- Tom Gustafson, Director, Research Programs, Office of Finance and Administration, Florida International University  
  *Islands of South Florida*

**Sponsored By:** Peace River Manasota Regional Water Supply Authority
8:30 AM - 10:00 AM  Impacts of Dams and Socioecological Systems 1
(Moderator: James Jawitz, Soil and Water Sciences Department, University of Florida)

- Steve Leitman, Waters Without Borders
  Performance Metrics: The link between hydrology, engineering and ecology in the Apalachicola/Chattahoochee/Flint Basin
- Tiffany Higgins, Environmental Journalist, Translator, Independent Researcher & Journalist
  Munduruku Responses to Sao Manoel and Teles Pires Hydroelectric Dams in Brazil’s Amazon: Indigenous Observations of and Resistance to Hydrologic River Changes due to Dams, Mining, and Soy Production
- David Kaplan, Assistant Professor, Environmental Engineering Sciences, ESSIE, University of Florida
  Quantifying the ecohydrological impact of dams in the Amazon
- Walterlina Brasil, Professor, UNIR - UNIVERSIDADE FEDERAL DE RONDÔNIA
  The Scientific Community in Projects of Dams in the Amazon

Sponsored By: Southern Regional Science Association

8:30 AM - 10:00 AM  Challenges & Opportunities for Spring System Restoration 4
(Moderator: Jodi Slater, St. Johns River Water Management District)

- Raymond Miller, Project Manager, Dewberry
  Topobathy Lidar Mapping in Kings Bay
- Michael Alfieri, Principal Hydrogeologist, Water Resource Associates, LLC
  Groundwater quality source evaluation for the Rainbow Springs group, Marion County, Florida: A pilot program
- Amanda Desormeaux, Graduate Fellow, School of Natural Resources and Environment/Soil and Water Sciences, University of Florida
  Balancing the Nitrogen Budget in Silver Springs: In Situ Measurements of Nitrate Fluxes and Attenuation
- Mary Lusk, Water Resources Specialist, UF/IFAS
  Onsite Wastewater Treatment and Disposal Systems in Florida’s Springsheds: Managing the Interrelations between Spring Water Quality and Physical Infrastructure Needs
- Grant Gatson, Technical Professional II, Wood plc, formerly Amec Foster Wheeler
  Ichetucknee Springshed Water Quality Improvement Project Infiltration Treatment Wetland Creation and Denitrification Wall Implementation

Sponsored By: Water & Air Research, Inc.

10:00 AM - 10:30 AM  Refreshment Break
North Hallway

10:30 AM - 12:00 PM  Urban Water and Nutrient Management 2
(Moderator: Rick Hutton, Gainesville Regional Utilities)

- Lynn Barber, Extension Faculty, Florida Friendly Landscaping, University of Florida
  Community Water Wise Award Program: Hillsborough, Pasco and Pinellas Counties
- Bernardo Cardenas, Research Associate, University of Florida
  Testing Smart Irrigation Controllers in the Real World
- Stacie Greco, Senior Planner, Alachua County Environmental Protection Department
  Reducing Residential Landscape Irrigation with Regulatory and Social Marketing Tools
- Georgina M. Sanchez, Graduate Research Assistant, Center for Geospatial Analytics, North Carolina State University
  Water Use in Urbanized Areas: Effects of Urban Form and Socio-Ecological Drivers
- Nicholas Taylor, State Specialized Extension Agent, University of Florida
  H2OSAV: A Water Conservation Program Data Hub

Sponsored By: Amec Foster Wheeler
10:30 AM - 12:00 PM

**Hydrologic Modeling and Water Management**
(Room 2320)
(Moderator: Sanjay Shukla, Department of Agricultural and Biological Engineering, University of Florida)

- Paul Decker, Student, University of Florida
  *Challenges to Rainfall-Runoff and Transit Time Distribution Modeling Within the Southeastern Coastal Plain, USA*

- Gary Feng, Research Soil Scientist, USDA-ARS
  *Evaluating Surface Available Water as Alternative and Developing Sustainable Groundwater Management Practices Using Coupled SWAT-MODFLOW Modeling*

- Ying Ouyang, Research Hydrologist, USDA Forest Service
  *A Pond and Irrigation Model (PIM) for Simultaneously Predicting Crop Irrigation Demand and Pond Water Availability: A Case Study in Mississippi*

- Mathews Jackson Wakhungu, PhD Student and Graduate Assistant, University of South Florida
  *Managing Interdependent Infrastructures: Water, Stormwater, and Transportation*

- Jiangxiao Qiu, Assistant Professor, University of Florida
  *Nonlinear response of ecosystem services to groundwater availability under climate extremes*

**Sponsored By:** INTERA Incorporated

10:30 AM - 12:00 PM

**Coastal Ecosystems**
(Room 2335)
(Moderator: Todd Crowl, Florida International University)

- Katie Glodzik, PhD Student, University of Florida
  *Geographic drivers of coastal forest die-off and change since 1984 in the Lower Suwannee NWR*

- Braulio Juarez, Graduate Student, Civil and Coastal Engineering Department, University of Florida
  *Tidal and residual circulation in a multiple-inlet deltaic system*

- John F. Meeder, Research Professor, Florida International University
  *Enhancing coastal wetland resilience to sea level rise; just add water?*

- Beth A. Middleton, Research Ecologist, US Geological Survey
  *Wind and salt: coastal wetland resilience to hurricanes*

- Xuqi Chen, PhD Student, University of Florida
  *Public Preferences for Adaptation Strategies to Sea Level Rise: The Role of Perception, Knowledge, and Experience*

**Sponsored By:** Peace River Manasota Regional Water Supply Authority

10:30 AM - 12:00 PM

**Impacts of Dams on Socioecological Systems 2: Case Study–Kirkpatrick (aka Rodman) Dam**
(Room 2365)
(Moderator: Carol Lippincott, University of Florida Water Institute)

- Steven Noll, Master Lecturer, Department of History, University of Florida
  *It's About Dam Time: The Continuing Fight over Rodman Dam and Ocklawaha River Restoration*

- Matt Keene, Filmmaker, Pallet House Pictures
  *Lost Springs - A film about springs hidden under the impoundment behind Kirkpatrick (aka Rodman) Dam and revealed during brief water drawdowns*

- Tatiana Borisova, Extension Specialist / Associate Professor, Food and Resource Economics Department, University of Florida
  *Public Preferences for Water Resource Management of the Ocklawaha River*

**Sponsored By:** Southern Regional Science Association
10:30 AM - 12:00 PM Challenges & Opportunities for Spring System Restoration 5  
(Auditorium)  
(Moderator: Casey Fitzgerald, St. Johns River Water Management District)  
This panel will initially provide an overview of the current water quality and quantity regulatory and management framework influencing Florida’s springs. This will be followed by a summary of the major findings of the recently completed, three-year collaborative SJRWMD/UF science effort and identification of some strategic future research options. The panel will close with an open discussion of management implications of these and other recent scientific springs related findings and potential implementation paths forward.  
Panel members include:  
• Thomas Frick, Director, Division of Environmental Assessment and Restoration, Florida Department of Environmental Protection  
• John C. Good, P.E., Chief Professional Engineer, Suwannee River Water Management District  
• Dean Dobberfuhl, Bureau Chief, St. Johns River Water Management District  
• Thomas K. Frazer, Professor and Director, School of Natural Resources and Environment, University of Florida  

12:00 PM - 1:15 PM Lunch (Pick up box lunch in North Hallway)  
(Grand Ballroom)  

1:15 PM - 1:30 PM Presentation of Student Poster Awards  
(Grand Ballroom)  
(Sponsored By: AWRA Florida Peace River Manasota Regional Water Supply Authority Gainesville Regional Utilities)  

1:30 PM - 3:00 PM Telling Water’s Story  
(Grand Ballroom)  
(Moderator: Cynthia Barnett, UF Graham Center and College of Journalism and Communications; author of Rain, Blue Revolution & Mirage.)  
Panelists will explore the power of storytelling to shape a new water ethic, drawing on their experiences telling the story of water via narrative writing, painting, conservation photography, film, 360-degree video and other forms. Scientists and policymakers often talk about water in the language of supply and systems, efficiency and infrastructure, management and nutrients. Most people do not easily relate to these abstractions. But they can and do relate to stories, which can help build a public ethos for water.  
• Jennifer Adler Owen, conservation photographer, University of Florida and National Geographic Society  
• Sandra Postel, director, Global Water Policy Project; co-creator, Change the Course; author, Last Oasis, Pillar of Sand, Rivers for Life & Replenish  
• Margaret Ross Tolbert, artist; author, AQUIFERious; co-producer, Lost Springs.  

3:00 PM - 3:30 PM Refreshment Break  
(North Hallway)  
(Sponsored By: Carl S. Swisher Foundation)
Shaping our Water Future: Recent Progress, New Challenges  
(Moderator: Wendy Graham, University of Florida Water Institute)

This panel consists of a leading group of scientists, engineers, managers and policy makers representing agriculture, environmental protection, water management, conservation and academic interests. Panel members will draw on a variety of personal and institutional perspectives to discuss major challenges to Florida’s water security and new opportunities to shape Florida’s water future. Policies and programs that are currently working well, as well as new initiatives necessary to ensure sustainable water resources will be discussed. The panel will conclude with questions and dialogue with the audience.

• Drew Bartlett, Deputy Secretary, Ecosystem Restoration, Florida Department of Environmental Protection
• Eric Draper, Division Director, Recreation and Parks, Florida Department of Environmental Protection
• Steve Dwinell, Director, Office of Agricultural Water Policy Florida Department of Agriculture and Consumer Services
• Clay Henderson, Executive Director, Stetson University Institute for Water and Environmental Resilience
• Beth Lewis, Freshwater Program Manager, The Nature Conservancy of Florida
• Ann Shortelle, Executive Director, St. Johns River Water Management District

Sponsored By: Duke Energy
# Symposium At A Glance

## Agenda - Tuesday, February 6, 2018

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<th>Time</th>
<th>Activity</th>
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<td>7:30 AM - 8:30 AM</td>
<td>Registration</td>
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<tr>
<td>Posters (Salons AE &amp; DH)</td>
<td>Registration and check-in</td>
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<td>8:30 AM - 10:00 AM</td>
<td>Plenary Session</td>
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<td>Posters (Salons AE &amp; DH)</td>
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<tr>
<td>• Dr. Wendy Graham, Director, University of Florida Water Institute</td>
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<tr>
<td>• Dr. Jack Payne, Senior Vice President for Agriculture and Natural Resources, University of Florida</td>
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<tr>
<td>• Harry Sideris, State President—Florida, Duke Energy Florida</td>
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<tr>
<td>Keynote:</td>
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<tr>
<td>• Sandra Postel, Director, Global Water Policy Project</td>
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<tr>
<td>Replenish: The Virtuous Cycle of Water and Prosperity</td>
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<td>10:00 AM - 10:30 AM</td>
<td>Refreshment Break and Book Signing</td>
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<tr>
<td>North Hallway</td>
<td>Posters (Salons AE &amp; DH)</td>
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<td>10:30 AM - 12:00 PM</td>
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<td>Forest Ecohydrology</td>
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<tr>
<td>Room 2320</td>
<td>Engaging Stakeholders in Developing Solutions to Water Issues</td>
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<tr>
<td>Room 2335</td>
<td>Water and Regional Science</td>
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<tr>
<td>Room 2365</td>
<td>Agricultural Water and Nutrient Management 1</td>
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<tr>
<td>Auditorium</td>
<td>Challenges &amp; Opportunities for Spring System Restoration 1</td>
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<tr>
<td>Grand Ballroom</td>
<td>Reception setup</td>
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<tr>
<td>12:00 PM - 1:30 PM</td>
<td>Luncheon</td>
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<td>Estuarine Ecology and Water Quality</td>
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<td>Challenges &amp; Opportunities for Spring System Restoration 2</td>
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<tr>
<td>Grand Ballroom</td>
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<tr>
<td>3:00 PM - 3:30 PM</td>
<td>Break</td>
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<td>3:30 PM - 5:00 PM</td>
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<td>Who Are They? Understanding Audiences to Design or Improve Programs</td>
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<td>Room 2335</td>
<td>Challenges &amp; Opportunities for Everglades System Restoration</td>
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<td>Room 2365</td>
<td>Use of Technology to Shape our Water Future</td>
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<td>Auditorium</td>
<td>Challenges &amp; Opportunities for Spring System Restoration 3</td>
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<tr>
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<td>5:30 PM - 7:30 PM</td>
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# ufwater18
Agenda - Wednesday, February 7, 2018

8:30 AM - 10:00 AM  Concurrent Oral Sessions

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<td>Coastal Flooding, Storm Surge and Sea Level Rise</td>
<td>Impacts of Dams and Socioecological Systems 1</td>
<td>Challenges &amp; Opportunities for Spring System Restoration 4</td>
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10:00 AM - 10:30 AM  Break  North Hallway

10:30 AM - 11:00 AM  Concurrent Oral Sessions

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12:00 PM - 1:15 PM  Lunch (pick up box lunch in North Hallway)  Grand Ballroom

1:15 PM - 3:00 PM  Presentation of Student Poster Awards and Plenary Session  Grand Ballroom

Presentation of Student Poster Awards

Telling Water’s Story
(Moderator: Cynthia Barnett, UF Graham Center and College of Journalism and Communications; author of Rain, Blue Revolution & Mirage.)

Panelists will explore the power of storytelling to shape a new water ethic, drawing on their experiences telling the story of water via narrative writing, painting, conservation photography, film, 360-degree video and other forms. Scientists and policymakers often talk about water in the language of supply and systems, efficiency and infrastructure, management and nutrients. Most people do not easily relate to these abstractions. But they can and do relate to stories, which can help build a public ethos for water.

- Jennifer Adler Owen, conservation photographer, University of Florida and National Geographic Society
- Sandra Postel, director, Global Water Policy Project; co-creator, Change the Course; author, Last Oasis, Pillar of Sand, Rivers for Life & Replenish.
- Margaret Ross Tolbert, artist; author, AQUIFERious; co-producer, Lost Springs.

3:00 PM - 3:30 PM  Break  North Hallway

3:30 PM - 5:00 PM  Plenary Session  Grand Ballroom

Shaping Our Water Future: Recent Progress, New Challenges
(Moderator: Wendy Graham, University of Florida Water Institute)

This panel consists of a leading group of scientists, engineers, managers and policy makers representing agriculture, environmental protection, water management, conservation and academic interests. Panel members will draw on a variety of personal and institutional perspectives to discuss major challenges to Florida’s water security and new opportunities to shape Florida’s water future. Policies and programs that are currently working well, as well as new initiatives necessary to ensure sustainable water resources will be discussed. The panel will conclude with questions and dialogue with the audience.

- Drew Bartlett, Deputy Secretary, Ecosystem Restoration, FL Dept. of Environmental Protection
- Eric Draper, Division Director, Recreation and Parks, FL Dept. of Environmental Protection
- Steve Dwinell, Director, Office of Agricultural Water Policy, FL Dept. of Agriculture and Consumer Services
- Clay Henderson, Executive Director, Stetson University Institute for Water and Environmental Resilience
- Beth Lewis, Freshwater Program Manager, The Nature Conservancy of Florida
- Ann Shortelle, Executive Director, St. Johns River Water Management District
Poster Presentations by Theme

Agricultural/Silvicultural Water

Barrett, Charles  
UF/IFAS Extension  
*Inter-Agency partnerships: What makes them work, what makes them challenging, and what is your role as an Extension professional*

Biscaia Ribeiro Da Silva, Andre  
Horticultural Sciences Department, University of Florida  
*Spatial and temporal distribution of soil N under four irrigation systems as function of N fertilizer rate and timing of application in potatoes*

Fu, Xiangju  
University of Florida  
*Using sprinkler irrigation to save water for Florida’s potato production*

Guzmán, Sandra  
Auburn University - Water Resources Center  
*Modeling Nutrient Leaching at Farm Scale: A Comparison of Hydrological and Crop Models*

Hansen, Kira  
University of Florida  
*Compact Bed Geometries for Fresh Produce: Environmental Footprint, Disease, and Economics*

He, Fei  
University of Florida  
*Accounting for New Agricultural Crops in Water Resource Management: A Case Study from Suwannee River Basin*

Osiecka, Anna  
North Florida Research and Education Center, University of Florida  
*Effects of fertilization and pine straw removal from slash pine plantations on the concentration of ammonium and nitrate-nitrite nitrogen in soil solution*

Rath, Sagarika  
University of Florida  
*Comparison of SWAT and DSSAT at Field scale evaluation of BMPs on reduction of N leaching as a tool to identify high N load critical areas in a watershed scale BMP evaluation at field scale to reduce nitrogen leaching without impact on yield*

Shrestha, Maryada  
University of Florida  
*Contrasting water use efficiency and export for two different pine management systems*

Sishodia, Rajendra  
University of Florida  
*Ranchland Water Retention Effects on Flows and Nutrient Loads in the Northern Everglades*

Spellman, Patricia  
University of Florida  
*Developing a new regional skew for the Suwannee River basin, northern Florida*

Spellman, Patricia  
University of Florida  
*The efficacy of different gridded climate datasets in simulating hydrological output the Santa Fe River basin, northern Florida*

Vazquez, Kathleen  
University of Florida  
*A Mechanistic Bacterial Transport Model to Inform Food Safety Management of Agricultural Pond Water*

Vrachioli, Maria  
University of Florida  
*Water’s Contribution to Agricultural Productivity under Spatial*

Yang, Wei  
China Agricultural University  
*Simulating longer-term performance of cover crops on water drainage and nitrogen cycling in corn and soybean rotation with RZWQM2*

Climate Change/Hydrology

Barry, Savanna  
UF/IFAS Nature Coast Biological Station  
*Evidence and Effects of Climate Change in Florida’s Nature Coast*

Barry, Savanna  
UF IFAS Nature Coast Biological Station  
*Characterizing blue carbon stocks in Thalassia testudinum meadows subjected to different long-term phosphorus supplies: a lignin biomarker approach*

Chang, Seungwoo  
University of Florida Water Institute  
*Comparison of dynamic versus statistical downscaling of the CCSM4 General Circulation Model predictions for simulating hydrologic response in the Tampa Bay Region.*

Crouch, Trey  
University of Florida  
*Comparing Climate Change and Anthropogenic Activity effects on Madeira River Watershed Hydrosedimentology*
Poster Presentations by Theme

Human Water Needs/Use

Court, Christa Poster No. 29
Food and Resource Economics Department, University of Florida
Water-Energy Prototype Model for the NEMS Platform: Thermoelectric Water Demand and its Implications for Regional Electricity Markets

Erfanian, Elham Poster No. 30
West Virginia University
Long-term debt in water utilities: Does ownership matter? Evidence of West Virginia’s Utilities

Jackson, Jennifer Poster No. 31
University of Florida
Coagulation of Proteins Using Chitosan for Drinking Water Treatment Applications

Jumani, Suman Poster No. 32
Soil and Water Sciences Department, University of Florida
Reach and catchment-scale impacts of small hydropower projects in a tropical biodiversity hotspot

Konstantis, Tatiana Poster No. 33
University of Florida
Characterization of waste water samples from Mexico Beach Florida

Ludgate, Nargiza Poster No. 34
University of Florida
Gender roles in household water resource management in water-scarce countries: Does greywater treatment technology empower rural women in Jordan

Pitre, Vaidehi Poster No. 35
University of Florida
Life cycle assessment of a pre-treatment process of coagulation using chitin and chitosan as coagulants to reverse osmosis

Stream/River Dynamics

DeVito, Lauren Poster No. 36
University of Florida
Quantifying spatial and temporal variations in metabolism within and across stream order in a North Central Florida River network

Coastal Waters

Langston, Amy Poster No. 20
University of Florida
Modeling the Effects of Climate Change and Predation on Northward Expansion of Black Mangroves (Avicennia germinans) into Temperate Salt Marsh

Sanchez, Felipe Poster No. 21
University of Florida
Current Status and Health of Apalachicola Bay Oysters: Potential Impacts of Changing Environmental Conditions and Resource Management

Sharp, Misti Poster No. 22
IFAS, University of Florida
Economic Damages Associated with Water Related Natural Disasters

Tootoonchi, Mohsen Poster No. 23
University of Florida
Evaluating proxies for seawater in sea level rise and climate change research

Zhou, Jiahua Poster No. 24
University of Florida
Watershed and estuary based study on climate change effects to ecosystems in Florida and related restoration projects

Coastal Waters

Johnson, Hailey Poster No. 25
University of Florida
A Numerical Study to Quantify the Stability of Cuspatte Features on Sandy Coastallines in Response to Evolving Wave and Storm Climates

Lee, Duhui Poster No. 26
The Department of Tourism, Recreation and Sports Management, University of Florida
Measuring the equity of beach access for people with disabilities: A case study of Duval county

Mora, Nesmar Poster No. 27
Royal Consulting Services, Inc.
Green Remediation Alternative

Prince, Kimberly Poster No. 28
University of Florida
Red drum ontogenetic shifts in prey network structure drives persistent organic pollutant accumulation.
**Poster Presentations by Theme**

See Poster Layout Map Pg. 22

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**Kirk, Lily**  
University of Florida  
*Benthic Light Availability Improves Predictions of Riverine Primary Production*  

**Orozco-Lopez, Enrique**  
University of Florida  
*Concepts, Theories and Models of Macropore Flow Through Riparian Vadose Zone.*  

**Reaver, Nathan**  
University of Florida  
*Quantifying and Predicting Three-Dimensional Heterogeneity in Transient Storage Using Roving Profiling*  

**Sucsy, Peter**  
St. Johns River Water Management District  
*Mechanistic Modeling for Water Resources Management of the St. Johns River, FL*  

**Wu, Qianyan**  
University of Florida  
*Valuing the Recreation Benefits of Springs in Florida*

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**Water Quality – Water Management**

**Adams, Damian**  
University of Florida  
*Water Resource Protection at the Ballot Box: Understanding Voter Preferences and Behavior*  

**De Maria, Maite**  
Center for Environmental and Human Toxicology, University of Florida  
*Nephrotoxic effects of glyphosate and Rodeo® through water exposure on largemouth bass*  

**Freitas, Andressa**  
Soil and Water Sciences Department, University of Florida  
*Variable Consequences of Converting Biosolids to Biochar: Implications for Water Quality*  

**Haluska, Alexander**  
University of Florida  
*Quantification of contaminant mass flux based on colorimetric responses*  

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**Hoge, Victoria**  
St. Johns River Water Management District  
*Developing a Biosolids Database for Watershed Modeling Efforts*  

**Holian, Lauren**  
University of Florida  
*Viruses Can’t Take the Heat*  

**Krimsky, Lisa**  
UF/IFAS  
*Capitalizing on local capacity to develop a statewide volunteer water monitoring program.*  

**Mohd Jani, Siti Jariani**  
University of Florida  
*Rainy Season Nitrogen Transport in Urban Residential Stormwater Runoff*  

**Qiu, Gary**  
Department of Environmental Engineering Sciences  
*Reduction of Adverse Effects of Tritium in Water Wetlands*  

**Al-Quraishi, Ali**  
University of Florida  
*Reducing the Accumulated Salt Concentration by Changing the Water Hydrodynamic of the Western Al-Hammar Marsh.*  

**Epstein, Joshua**  
School of Forest Resources and Conservation, University of Florida  
*Drivers of Community Composition and Water Quality in North Central Florida Freshwater Wetlands*  

**Henson, Kevin**  
University of Florida  
*The Effects Of Forest Management On The Hydrology Of Isolated Wetlands In North Central Florida Pine Flatwoods.*  

**Li, Xinhu**  
Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences  
*Comparison of characteristic salt crust soils and no crust soils: implications for the effect of flooding on salinization in hyper-arid conditions.*
Medina, Miles  
Department of Agricultural and Biological Engineering, University of Florida  
*Diagnosing drivers of environmental noncompliance in constructed treatment wetlands: A nonlinear dynamics approach*

Pazmiño-Hernandez, Marco  
Department of Agricultural and Biological Engineering, University of Florida  
*Design and evaluation of a link-node hydrological model to study the spatiotemporal impacts of an interbasin water transfer in the Tempisque-Bebedero watershed, Costa Rica*

Quintero, Carlos  
Soil and Water Sciences Department, University of Florida  
*Seasonal Carbon Fluxes in a Patterned Karst Wetland and Implications of Hydrology on Basin Expansion in Big Cypress National Preserve*

Stahlhut, Katherine  
US Geological Survey  
*The Desmids of the Arthur R. Marshall Loxahatchee National Wildlife Refuge*

White Jr., Elliott  
University of Florida  
*Hurricane Impacts on Coastal Baldcypress Swamps are Storm Dependent and Temporally and Spatially Variable*
Poster Session Layout - Ballrooms A, D, E, H

**GRAND BALLROOM**

**POSTER THEME** | **POSTER NUMBERS**
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Climate Change/Hydrology | 16 - 24
Coastal Waters | 25 - 28
Human Water Needs/Use | 29 - 35
Stream/River Dynamics | 36 - 42
Water Quality - Water Management | 43 - 51
Wetlands | 52 - 60
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## Poster Presenters

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