



The 14th International Symposium on **BIOGEOCHEMISTRY OF WETLANDS & AQUATIC SYSTEMS**

June 1-5, 2025 | Baton Rouge, Louisiana, USA

www.conference.ifas.ufl.edu/biogeo

Note: Agenda is subject to change. Press F5 to refresh your view in case an older version is cached in your browser.

Sunday, June 1, 2025	
3:00pm - 5:00pm	Poster Presenters and Sponsors Set Up Displays
5:00pm - 7:00pm	Symposium Registration Open
Monday, June 2, 2025	
7:30am - 5:00pm	Symposium Registration Open
7:30am - 8:30am	Morning Refreshments
8:30am - 9:50am	<p>Opening Plenary</p> <p style="text-align: center;"><u>MODERATOR</u></p> <p style="text-align: center;">Dr. John White, <i>Symposium Chair</i>, Associate Dean of Research, College of Coast & Environment Department of Oceanography & Coastal Sciences Louisiana State University, Baton Rouge, Louisiana, USA</p> <p style="text-align: center;"><u>Welcome Remarks by Leaders from the Louisiana State University</u></p> <p style="text-align: center;">Dr. Robert Twilley, Vice President for Research and Economic Development</p> <p style="text-align: center;"><u>OPENING PLENARY PRESENTATION</u></p> <p style="text-align: center;">Dr. Denise Reed, Professor Gratis, University of New Orleans, Montegut, Louisiana, USA</p> <p style="text-align: center;">Closing Remarks by Dr. John White</p>
9:50am - 10:20am	AM Refreshment Break

Monday, June 2, 2025			
Concurrent Sessions - 10:20am - 12noon			
	Session 1	Session 2	Session 3
	Riverview A	Governor Room	Capitol Room
	Contaminants/Metals in Wetlands	Constructed Wetlands (Part 1)	Monitoring of Wetland Condition
	Jörg Rinklebe University of Wuppertal Wuppertal, Nordrhein-Westfalen, Germany	Mike Jerauld DB Environmental, Rockledge, FL, USA	Ronald Corstanje Cranfield University, Cranfield, Bedfordshire, UK
10:20am	Anna Knox Removal and Retention of Copper and Zinc in a Constructed Wetland over 20 Years	Mike Jerauld Typha Seedling Growth Models Provide Improved Assessment of Treatment Wetland Performance Limitations	Kara Hall Assessing Aquatic Macroinvertebrate Communities in Wetland Reserve Easements in the Mississippi Alluvial Valley
10:40am	Shengsen Wang Biochar Mitigated Zerovalent Iron-Induced Methane Emissions in an Arsenic-Contaminated Paddy Soil: the Mechanism	Zoe Spielman Linking Phosphorus Storage Mechanisms with Removal Performance in Everglades Stormwater Treatment Wetlands	Avery Wissmueller Water Quality Assessment of Wetland Reserve Easements in the Mississippi Alluvial Valley
11:00am	Adam Sochacki The Effect of Manganese Oxides and Ferric Hydroxides on the Treatment of Greywater in Unsaturated Constructed Wetlands	Julia Charest The Effect of Prescribed Burning on Nitrification-Coupled Denitrification in a Restored Chesapeake Bay Tidal Marsh	Jeffrey Hutchinson Water Chemistry in Isolated Pools Along an Urban Ephemeral Stream in South Central Texas
11:20am	Jan Vymazal Distribution of Heavy Metals in Plants Growing in Constructed Treatment Wetlands	Natalie Donoso Reactive Materials for Enhanced Removal of Organic Micropollutants in Constructed Wetlands	Ronald Corstanje Using Long-Term Monitoring Datasets to Demine Wetland Resilience
11:40am	Jörg Rinklebe Pollution Control in Wetland Soil and Water Around the Globe	Maurizio Borin Soil Evolution in an Agricultural Surface Flow Wetland After 27 Years	Discussion
12:00pm 1:15pm	Group Luncheon Buffet		

Monday, June 2, 2025					
Concurrent Sessions – 1:20pm - 3:00pm					
Session 4		Session 5		Session 6	
Riverview A		Governor Room		Capitol Room	
C Sequestration and GHG Fluxes in Freshwater Systems		Constructed Wetlands (Part 2)		Microbial Processes in Wetlands: Responses to Environmental Changes and Impacts on Biogeochemical Cycles	
Curtis Richardson Duke University, Durham, NC, USA		Kevin Grace DB Environmental, Rockledge, FL, USA		Aixin Hou Louisiana State University, Department of Environmental Sciences Baton Rouge, Louisiana, USA	
1:40pm	Curtis Richardson Pocosins: North America's Forgotten Peatlands for Climate Mitigation and Sea Level Protection	Scott Wallace Constructed Wetlands Performance and Challenges	Bo Guan Ecological Restoration Evaluation of Coastal Wetlands in the Yellow River Delta from the Perspective of Soil Microorganisms		
1:40pm	Hope Fillingim Tidal Freshwater Wetland Research on the Santee Experimental Forest - Hydrology and Carbon Dynamics	Ming Jiang Spatial and Temporal Evolution Patterns and Stability Maintenance Mechanisms of Iron-Bound Carbon of Reclaimed Wetlands	Grace Cagle A Little Goes a Long Way: 1 °C Warming Alters Microbial Metabolic Potential in a Permafrost Peatland		
2:00pm	William Crumpton Nitrous Oxide and Methane Production in Wetlands Receiving Elevated Agricultural Nitrate Loads	Olivia Lemieux Assessing Salt Marsh Greenhouse Gas Fluxes by Planting Treatment Across Salinity and Elevational Gradients	Mohd Manzar Abbas Impact of Oil Exposure on Antibiotic Resistance in Soil Microbial Communities of Gulf of Mexico		
2:20pm	Hojeong Kang Are Wetlands a Carbon Sink or Source? From Microbes to the Globe	Shaelynn Kaufman Leveraging Watershed Wetlands: Optimizing Phosphorus Management Strategies in Lake Erie Basin	Walker Marechal Understanding the Bacterial Community and the Relationship of Nutrients and Heavy Metals in Little Washita River Experimental Watershed Reservoirs, Oklahoma, USA		
2:40pm	Pascal Badiou Greenhouse Gas Emissions From Wetlands in the Canadian Prairies: Impacts of Land-Use Change and Environmental Drivers	Kevin Grace Dissolved Organic Matter Optical Properties in Treatment Wetlands: Associations with Plants, Soils, and Treatment Performance	Mikk Espenberg Below- and Aboveground Microbial Carbon and Nitrogen Cycles in the Congo Basin Peatland Forests and Grazed Savannas		
3:00pm-3:30pm	PM Refreshment Break				

Monday, June 2, 2025			
Concurrent Sessions – 3:30pm - 5:10pm			
	Session 7	Session 8	Session 9
	Riverview A	Governor Room	Capitol Room
	A Deeper Look at “Blue Carbon”: Factors, Forms, and Stability	Carbon and Nutrient Cycling in Wetlands and Open Water Receiving Flows from Sediment Diversions-River Reconnection	Coastal Biogeochemistry: Wetlands and Hypoxia
	Lisa G. Chambers University of Central Florida Orlando, Florida, USA	Angelina Freeman Louisiana Coastal Protection and Restoration Authority (CPRA) Baton Rouge, Louisiana, USA	John Andrew Nyman Louisiana State University Agricultural Center, Baton Rouge, LA, USA
3:30pm	Marcelo Ardon Disentangling the Effects of Salinity on Coastal Forest Carbon Balance: From Genes to Landscapes	Angelina Freeman Coastal Louisiana System-Wide Water Quality Characterization	Andrew Balder Machine Learning Evaluates Woody Plant Species Associations with Salinity and Hydrology in the Mobile-Tensaw Delta
3:50pm	Josh Breithaupt New Ground: An Evaluation of Factors That Influence Creation of Blue Carbon Soils in Restored and Natural Mangroves in Southwest Florida	Sibel Bargu Examining Hydrological Changes, Nutrient Dynamics, and Cyanobacterial Blooms in Louisiana's Deltaic Estuaries Over a Decade	Lee Potter Implications of Phosphorus Loading Pathways on Harmful Algal Blooms in a Coastal Estuary
4:10pm	Amanda Spivak Clear as Mud: Molecular Insights to Landscape Patterns of Soil Carbon in Coastal Wetlands	John White Consequences of River Reconnection on Water Quality in Barataria Bay	Christopher Anderson Evaluating Salinity Regimes and Material Exchange Across the Mobile-Tensaw River Delta
4:30pm	Anthony Mirabito Blue Carbon Stability: Spanning Across Geographical Boundaries	Nia Hurst Mississippi River Reintroduction into the Maurepas Swamp: Reunited after 100+ years	Austin Fox Tracking Diurnal and Episodic Hypoxia and Impacts to Nutrient Cycling in a Shallow, Well-Mixed Estuary
4:50pm	Scott Jones When and Where Can Coastal Wetland Restoration Increase Carbon Sequestration as a Natural Climate Solution?	Hongqing Wang Modeling Carbon Fluxes in Forested Wetlands in the Mississippi River Deltaic Plain Under Various Hydrologic Conditions	John Andy Nyman Managing Marshes with Drawdowns Can Reduce Elevation of Coastal Marshes
5:15pm- 7:00pm	Poster Session One and Welcome Social		

	Tuesday, June 3, 2025
7:30am- 5:00pm	Symposium Registration Open
7:30am- 8:30am	Morning Refreshments
8:30am-9:50am	<p style="text-align: center;">Plenary Session</p> <p style="text-align: center;"><u>MODERATOR:</u></p> <p style="text-align: center;">Dr. Todd Osborne, <i>Symposium Co-Chair</i>, University of Florida/IFAS Department of Soil, Water & Ecosystem Sciences, Wetland Biogeochemistry Laboratory, Whitney Laboratory for Marine Bioscience, St. Augustine, Florida, USA</p> <p style="text-align: center;">8:30am - 9:10am</p> <p style="text-align: center;"><u>Stability Matters: A New Perspective on Wetland Soil Carbon</u></p> <p style="text-align: center;">Dr. Lisa G. Chambers, Associate Professor, University of Central Florida Aquatic Biogeochemistry Lab (ABL) and Soil and Sediment Lab (SASL) Department of Biology and National Center for Integrated Coastal Research Orlando, Florida, USA</p> <p style="text-align: center;">9:10am - 9:50am</p> <p style="text-align: center;"><u>Understanding the Great Lakes: It is More than Just Phosphorus</u></p> <p style="text-align: center;">Dr. Alan D. Steinman, Annis Water Resources Institute, Grand Valley State University Muskegon, Michigan, USA</p>
9:50am- 10:20am	AM Refreshment Break

Tuesday, June 3, 2025			
Concurrent Sessions - 10:20am - 12noon			
	Session 10	Session 11	Session 12
	Riverview A	Governor Room	Capitol Room
	Variability in C Fluxes	Created and Restored Wetlands as Nature Based Climate Solutions	Plant Dynamics in Wetland & Aquatic Biogeochemistry
	Robinson W. Fulweiler Boston University Boston, Massachusetts, USA	Gail Chmura McGill University, Montreal, Quebec, Canada	Victor Rivera-Monroy Louisiana State University, Baton Rouge, LA, USA
10:20am	Genevieve Noyce Drivers of Spatial and Temporal Patterns in Methane Emissions from a Brackish Coastal Wetlands	Alexandra Haak Assessing the Value of Constructed Wetlands with Emergent Vegetation as Nature Based Climate Solutions: Insights from Southern Ontario (Canada)	Meredith Theus The Role of Plant Diversity in Wetland Greenhouse Gas Emissions
10:40am	Emily Wilson Meta-analysis Describing How Plant Species Composition Drives Salt Marsh Greenhouse Gas Fluxes	Rachel Plant Ebullitive and Diffusive Greenhouse Gases from Flooded Impoundments of New Brunswick and Nova Scotia (Canada)	Tyler Provoncha Utilizing Biogeochemical Approaches to Aid in Pilot-Scale Seagrass Plantings in a Shallow, Well-Mixed Estuary
11:00am	Lena Champlin Seasonality and Marsh Zonation Drive Carbon Sequestration Patterns in New England Salt Marshes	Wendy Ampuero-Reyes Stocks and Rates of Organic Carbon Accumulation in Freshwater Impoundments of Eastern Canada	Mikk Espenberg Dynamics of N ₂ O Emissions from Amazonian Tropical Peat Forest and Partitioning N-Processes using ¹⁵ N Isotopes
11:20am	Elizabeth Watson Investigation of Salt Marsh Platform Vegetation Stress Indicators to Reveal Potential Marsh Loss Mechanisms	Samantha Mitchell Impacts of Smelting Pollutants on Long-Term Carbon Accumulation in Boreal Peatlands	Lorae Simpson Seagrass Sediment Carbon in the Indian River Lagoon
11:40am	John Rybczyk Carbon Sequestration in the Oldest Tidal Wetland Restoration Projects Along the West Coast, USA	Gail Chmura The Value of Salt Marsh Restoration Vs. Salt Marsh Conservation	Victor Rivera-Monroy Assessing Landscape Cumulative Impacts of Natural and Human Disturbances on Mangrove Carbon Storage in Puerto Rico (Jobos Bay)
12noon-1:15pm	Lunch on Own Explore and choose from a variety of local restaurants in walking distance from the hotel.		

Tuesday, June 3, 2025			
Concurrent Sessions – 1:20pm - 3:00pm			
	Session 13	Session 14	Session 15
	Riverview A	Governor Room	Capitol Room
	Vertical and Lateral Carbon Fluxes in Marshes	Phosphorus Dynamics in Biosolids Impacted Watersheds	Biogeochemical Outcomes of NRCS Wetland Conservation Practices at Multiple Scales
	Songjie He University of Southern Mississippi Ocean Springs, Mississippi, USA	Todd Osborne University of Florida/IFAS Department Soil, Water and Ecosystem Sciences St. Augustine, Florida, USA	Joseph Prenger USDA Natural Resources Conservation Service Beltsville, Maryland, USA
1:20pm	Kanchan Maiti Seasonal Variabilities in Sources and Transport of Dissolved Organic Carbon from a Rapidly Eroding Coastal Estuary in Mississippi River Delta Plain	Andy Canion Biosolids Derived P in the St. Johns River Watershed: Implications for Legacy P Impacts	Eric Roy Phosphorus Retention in Riparian Wetlands Restored on Formerly Farmed Land: Key Drivers and Lessons for Future Restoration
1:40pm	Jiaze Wang Methane Escape from the Deteriorating Mississippi River Delta	Rex Ellis Storage and Release of Biosolids P on Poorly Drained Sandy Florida Rangelands Receiving Biosolids Application	Jason Taylor Pop Up Wetlands: Enhancing Nutrient Retention on Agricultural Fields through Migratory Shorebird Stopover Habitat Management
2:00pm	Songjie He Lateral Carbon Flux from a Saltmarsh: Implications for Coastal Acidification and Carbon Budget	Jonathan Judy Application of Phosphorus Immobilizing Technology on a Legacy Biosolids Site	Justin Murdock Tradeoffs in Nutrient Retention and Greenhouse Gas Fluxes in Restored Agricultural Wetlands
2:20pm	Meagan Eagle Hydrologic Control of Carbon Fluxes: Field Observations Across an Elevation Gradient in New England Marshes	Tracey Schafer Does Benthic Biogeochemistry Drive Algal Blooms in Shallow, Subtropical Florida Lakes?	Dan Dai Drivers of the Solute Concentration Seasonality in the Kissimmee River Watershed
2:40pm	Camille Stagg Modeling Climate and Land Use Change Impacts on Net Ecosystem Carbon Balance in Coastal Wetlands	Todd Osborne Surface and Groundwater P Export from Active and Historic Biosolids Application Sites	Kim Van Meter Wetland Signatures: Use of MESA as a Tracer for Agricultural Nitrate Runoff in US Wetlands
3:00pm-3:30pm	PM Refreshment Break in Poster Hall		

Tuesday, June 3, 2025			
Concurrent Sessions – 3:30pm - 5:10pm			
	Session 16	Session 17	Session 18
	Riverview A	Governor Room	Capitol Room
	Belowground Carbon Dynamics in Forested Peatlands and Mangrove Systems	Remote Sensing and Spatial Patterns to Understand Wetland Biogeochemistry	Sulfur Cycling
	Rachel Collin Smithsonian Tropical Research Institute, Panama City, Panama	Christopher Potter NASA Ames Research Center Moffett Field, California, USA	Jacob Berkowitz US Army Engineer Research and Development Center Vicksburg, MS, USA
3:30pm	Pradipta Biswas NUMAR 2.0: Advancing Soil Formation Modeling to Embrace Uncertainty in Marsh Environments	Anthony Campbell Global Review of Salt Marsh Change and Carbon Emissions	Jeffrey Cornwell Pyrite Oxidation and Formation During Dredged Material Wetland Creation: Poplar Island, Maryland, USA
3:50pm	Denise Poveda Quantification of Belowground Biomass and Sediment Accretion in Mangroves of Different Coastal Environmental Settings of the Costa Rican Pacific Coast	Padmanava Dash Water Quality Time Series of the Mississippi Sound: Insights from Satellite and Unmanned Aerial Systems Imagery, and Autonomous Surface Vessel Data	Chelsea Duball Documentation of Iron Monosulfide Improves Hydric Soil Identification in the Arid Western U.S.
4:10pm	Alexandra Hedgpeth Surface DOC Fuels Belowground Respiration in a Neotropical Peatland	Yang Wang Eutrophication and Dissolved Organic Matter Exacerbates the Diel Discrepancy of CO ₂ Emissions in China's Largest Urban Lake	Benjamin Sulman Modeling Wetland Redox Biogeochemistry and Vegetation Function at Site to Continental Scales
4:30pm	Emilio Payo Monitoring Contrasting Belowground Processes as Drivers of Methane Dynamics in Dominant Tropical Peatland Vegetation Communities	Hafez Ahmad Long-term Water Quality Trends and Seasonal Drivers in the Western Mississippi Sound: A Remote Sensing and Machine Learning Approach	Yadav Sapkota Formation and Fate of Iron Sulfide Compounds Following Simulated Dredged Sediment Placement in Coastal Wetlands
4:50pm	Nicholas Girkin Plant Root Regulation of Tropical Wetland Greenhouse Gas Dynamics Across Contrasting Vegetation Types	Christopher Potter Aerial Image Analysis of Changes in Wetlands between 2019 and 2023 in the Barataria and Breton Sound Basins of Coastal Louisiana	Jacob Berkowitz Practitioner Guidance for Managing Iron Sulfur Compounds During Wetland Restoration
5:10pm	Brooke Conroy Mangrove Organic Matter Accumulation Related to Holocene Sea Level on a Northeastern Australian Carbonate Island	Discussion	Discussion
5:30pm-7:30pm	Poster Session Two and Networking Reception		

Wednesday, June 4, 2025

8:30am - 3:30pm

OPTIONAL FIELD TRIP:

Tour the Bonnet Carré Spillway and Davis Pond Freshwater Diversion

\$95/person (Early Cost, if registered on or before February 14, 2025)

\$125/person (Regular Cost, after February 14, 2025)

[Limit: 34 people]

Sign up when registering.

STOP ONE: The Bonnet Carré Spillway, built by the U.S. Army Corps of Engineers in 1935, helps reduce flood pressure on New Orleans by diverting excess Mississippi River water into Lake Pontchartrain. The structure consists of a mile-and-a-half-long concrete weir, and a six-mile spillway confined by levees which directs river water into the adjacent Lake Pontchartrain estuary. The 8,000-acre spillway is not only vital for flood management but also supports diverse wildlife and recreational activities and provides fresh water to the Lake Pontchartrain estuary. The field trip will involve a stop to see the spillway up close and to hear from the US Army Corp of Engineers about flooding management

STOP TWO: Located in St. Charles Parish, the Davis Pond Freshwater Diversion is 15 miles upstream of the city of New Orleans, this project diverts fresh water, nutrients, and sediments from the Mississippi River into the Barataria Basin to reduce saltwater intrusion and combat land loss. The diversion improves salinity levels, boosts fish and wildlife productivity, and supports marsh vegetation for a healthier estuarine ecosystem. The area supports oyster, crab, shrimp, and fish reproduction, as well as food for fur-bearing animals and migratory waterfowl. The Field Trip will involve an airboat trip out into the receiving wetlands to see firsthand how river reconnection sustains deltaic wetlands.

8:00am - 5:00pm

OPTIONAL TOUR DAY:

Enjoy a Self-Guided Adventure in New Orleans

\$50/person (Early Cost, if registered on or before February 14, 2025)

\$80/person (Regular Cost, after February 14, 2025)

[LIMIT: 55 people; once bus fills, no additional trips will be added.]

Fee covers bus transportation only. Visit New Orleans on your own schedule.

Sign up when registering.

***Bus departs Hilton Baton Rouge at 8:00am. Drops off at Café du Monde in New Orleans at 9:30am.
Bus loads at the same location at 3:00pm; returns to Baton Rouge, arriving at the Hilton by 5:00pm.
Don't miss the return bus home. It is ~\$96 to Uber back to Baton Rouge!***

Enjoy your day at your own pace, wandering through the picturesque Jackson Square, a hub of local art and historic beauty. Kick off your morning with the iconic powdered sugar beignets and a café au lait from the famous Café Du Monde. For a deep dive into history, visit the world-renowned National WWII Museum, the above ground cemeteries or take a trolley and visit the Garden District.

With endless possibilities, the day is yours to explore at your own pace. Whether you choose to dive into the rich history, immerse yourself in the sounds of local music, admire the handmade crafts, or simply indulge in the vibrant flavors, one thing is certain: in the Big Easy, the good times are always rolling!

Be sure to book advance tickets to any museums or locations you wish to visit at <https://www.neworleans.com/>.

5:30pm - 8:00pm

OPTIONAL EVENING EVENT:

Evening Social and Golden Cattail Presentation at LSU Center for River Studies

Hosted by Louisiana State University

\$35/person (Early Cost, if registered before February 14, 2025)

\$50/person (Regular Cost, after February 14, 2025)

[Limit: 80 people]

Sign up when registering.

Thursday, June 5, 2025			
7:30am-8:30am	Morning Refreshments		
8:30am	Concurrent Sessions - 8:30am - 10:10am		
	Session 19	Session 20	Session 21
	Riverview A	Governor Room	Capitol Room
	C Sequestration and GHG Fluxes in Coastal Systems	Mangrove Encroachment (Part 1 of 2)	Nutrients, Water Quality and Ecosystem Management (Part 1 of 2)
	Rachel Hunter Comite Resources, Inc. Covington, LA, USA	Loraé Simpson St. Johns River Water Management District, Palatka, FL, USA	Dongqi Wang East China Normal University, Shanghai, China
8:30am	Stephen Rigney Comparing GHG Flux Dynamics in Low and High Salinity Coastal Wetlands in Southeast Australia	Michael Osland Tropicalization of Temperate Wetlands: Projections of Mangrove Range Expansion	Jianxu Wang Inhibition of Mercury Mobilization and Methylation in Paddy Fields by Regulation of Redox Potential
8:50am	Robert Bordelon Methane Flux Pathways in Freshwater and Saline Marshes of Louisiana	Ilka C. Feller Do Extreme Events and Hurricanes affect the Mangrove Fauna Differentially along a Latitudinal Gradient?	Craig Allan The Hydrology and Water Quality Dynamics Associated with an Urban Beaver Pond Complex
9:10am	Sophia Lingo Greenhouse Gas Fluxes in an Active Delta Across a Sediment Organic Matter Gradient	Samantha Chapman Nitrogen Limitation of Mangroves Encroaching into Marshes Depends on Hydrological Positioning	Lucy Ngatia Post Hurricane Wood Debris Management Practices: Soil Particle Size Influences Carbon Thermal Stability and Nutrient
9:30am	Shawn Doyle Quantifying Spatial and Temporal Uncertainty in Coastal Carbon Dynamics in Louisiana	Corianne Tatariw Does Mangrove Encroachment Enhance Biogeochemical Resilience to Sea Level Rise?	Adam Siders Assessing the Influence of Breakwaters on Salt Marsh Denitrification Ecosystem Services
9:50am	Rachel Hunter Measurement of GHG Flux Across a Hydrologic Gradient in Louisiana Coastal Freshwater Forested Wetlands	Mercedes Pinzon-Delgado Tracing Nitrogen Pathways in Coastal Wetlands: The Role of MAOM in a Changing Landscape	Yongjie Wang Mercury Properties and Transformations in Wetland Sediment of the Changjiang Estuary
10:10am-10:30am	AM Refreshment Break in Poster Hall		

Thursday, June 5, 2025			
Concurrent Sessions – 10:30am - 12:10pm			
	Session 22	Session 23	Session 24
	Riverview A	Governor Room	Capitol Room
	Greenhouse Gas Emissions from Inland Waters	Mangrove Encroachment (Part 2 of 2)	Nutrients, Water Quality and Ecosystem Management (Part 2 of 2)
	Yi-Jun Xu Louisiana State University, Baton Rouge, Louisiana, USA	Havalend Steinmuller Louisiana Universities Marine Consortium, Chauvin, LA, USA	Lee Potter Louisiana State University, Baton Rouge, LA, USA
10:30am	Anamika Dristi A Decade-Long Trend in Dissolved Carbon Dynamics and CO2 Fluxes in the Lower Mississippi River	André S. Rovai Belowground Bio- and Necromass Allocation and Soil Shear Strength across Northern Gulf of Mexico Mangroves	Mumtahina Riza How to Increase Mineral-Associated Organic Matter Formation in Organic-Rich Soils
10:50am	Xingxing Cao Significant Contribution of Wastewater Treatment Plants to Dissolved Carbon Loading in China's Major River Systems	Lukas Lamb-Wotton Mangrove and Marsh Carbon Fluxes Across Natural and Created Wetlands within a Coastal Louisiana Barrier Island	Glen Delaney Valuing Forested Wetland Ecosystem Services in the Voluntary Carbon Market - The Avahoula Climate Mitigation Project
11:10am	Shu Chen Characteristics of Greenhouse Gas Emissions from Urban Rivers at Different Time Scales	Anna Armitage Belowground Resilience to Freeze Damage in the Texas (Gulf of Mexico) Marsh-Mangrove Ecotone	Paula Sanchez Garzon Floating Treatment Wetlands with Biochar to Treat Nutrients in a Stormwater Pond
11:30am	Shengnan Wu Unraveling the Drivers of Bubble Methane Emissions in Urban Rivers: The Roles of Organic Carbon Temperature and Water Depth	Rachel Weisend Microbe Mischief: How Microbes Drive Cryptic Cycling in Mangrove Wetlands	Xuan Thanh Bui Development of Floating Treatment Wetlands Coupled Aeration for Controlling Diffuse Pollution in Canal Waters
11:50am	Fanyan Yang Effects of Chlorinated Disinfectants on Greenhouse Gas Emissions from Urban Inland Waters	Rachel Collin A Seasonal Comparison of Decomposition Rates Across 5 Semi-Urban Mangrove Sites Spanning a Range of Soil Types and Tidal Regimes	Taryn Chaya Can Mosquito Impoundments Be Leveraged to Treat Eutrophic Waters?

	Thursday, June 5, 2025
	Buffet Luncheon and Closing Plenary Session – 12:15pm - 2:00pm
12:15 pm-2:00pm	<p><u>MODERATOR</u></p> <p>Dr. Jacob Berkowitz, <i>Symposium Co-Chair</i> , Louisiana State University and U.S. Army Corp of Engineers Engineer Research and Development Center, Baton Rouge, Louisiana, USA</p> <p><u>CLOSING PLENARY PRESENTATION</u></p> <p><u>Debilitating Effects of Sea Level Rise on Tidal Freshwater Wetlands</u> Dr. Christopher Craft, Janet Duey Professor of Rural Land Policy Emeritus Indiana University, Paul H. O’Neill School of Public and Environmental Affairs Bloomington, Indiana, USA</p> <p><u>CLOSING REMARKS</u></p> <p>Dr. John White, Symposium Chair, Associate Dean of Research, College of Coast & Environment Department of Oceanography & Coastal Sciences Louisiana State University, Baton Rouge, Louisiana, USA</p>
2:00pm	Symposium Concludes