

DETAILED AGENDA

	Tuesday, February 20, 2024
7:30am	<p align="center">Check-in for Preregistered Attendees - Pickup Symposium Materials <i>Onsite registration not available</i></p> <p align="center">Early Morning Refreshments [Grand Ballroom Hallways]</p>
8:30am	<p align="center">Opening Plenary Session [Grand Ballroom]</p> <p align="center">Introduction and Welcome</p> <p align="center">Matt Cohen, <i>Interim Director</i>, University of Florida Water Institute Scott Angle, <i>Provost and Senior Vice President for Academic Affairs</i>, University of Florida</p>
	<p align="center">Keynote Speaker</p> <p align="center">Stephen Loheide <i>Professor</i> Department of Civil and Environmental Engineering University of Wisconsin</p> <p align="center">“What Can Ecohydrology Do for You? Developing a Scientific-basis for Decision Making”</p>
	Morning Refreshment Break 10:00am

NOTES

Concurrent Sessions — 10:30am - 12:00pm

	Room 2335	Room 2340	Room 2355	Room 2365	Auditorium	Room 3315	Room 3320
	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7
Session Title	Adaptation Planning Strategies for Flood Resilience	Legacy Phosphorus in the Upper St. Johns River: Emerging Issues and Solutions	Environmental Justice Approaches in Water Research, Education and Policy	Linkages between Land Use, Climate and Downstream Effects on Coastal Natural Resources	Collective Action to Illuminate the Ecological Effects of Hurricane Ian	Precision Irrigation: Sensors, IoT, Data Analytics, and Machine Learning	Continuously Monitored and Adaptive Control “Smart” Ponds for Multiple Water Resource Benefits in Florida
Moderator	Hongying Zhao SFWMD	Todd Osborne University of Florida	Jason von Meding University of Florida	Mike Allen University of Florida	Christine Angelini University of Florida	Haimanote Bayabil University of Florida	Ann Shortelle Bio-Tech Consulting, Inc.

Introduction | 10:30am

10:35am	Akintunde Owosina SFWMD FPLOS: Assessing Vulnerability of SFWMD’s Flood Protection Assets and Proposing Adaptive Solutions	Joshua Papacek SJRWMD Evaluation of Nutrient Sources and Loading to Waterbodies in the Upper St. Johns River Basin	Andrea Galinski University of Florida A New Model for Vulnerability Assessments: Compounding Vulnerabilities + Housing	Kym Rouse Holzwart SWFWMD Landscape-Level Minimum Flows Development Methods in the Southwest Florida Water Management District	Chris Anastasiou SWFWMD Impacts of Hurricane Associated WQ Changes to Ecosystem Health: Implications for Future Coordination	Davie Kadyampakeni University of Florida Optimizing Citrus Irrigation Management with Soil And Plant-Based Sensors	Michael Register SJRWMD Florida Policy and Innovations in Water Quality and Resilience
10:50am	Carol Ballard SFWMD C&SF Section 216 Flood Resiliency Study: Modeling Approach	James Jawitz University of Florida Timescales and Magnitude of Legacy Biosolids Phosphorus Transport	Michael Borbolla Florida International University Against the Current: Experiences and Perceptions of Anglers along the Miami River	Nathan Reaver University of Florida Quantifying Impacts of Climate and Land Use Change on the Waters of the Suwannee River Basin	Miles Medina ECCO Scientific, LLC Water Quality Trend Analysis for the Charlotte Harbor Estuary in Southwest Florida, 2000–2021	Sandra Guzman University of Florida IoT and AI for Sustainable Specialty Crop Irrigation Management	Mark Thomasson National Stormwater Trust, Inc. Innovative Smart Ponds: How Do They Work?
11:05am	Francisco Pena SFWMD Characterizing Compound Flooding Potential and Assessing Adaptation Strategies in Collier County	Jonathan Judy University of Florida Application of Phosphorus Immobilizing Technology on a Legacy Biosolids Site	James Ji University of Florida Water, Water Everywhere, Nor Any Drop to Drink? Ocean Salinity, Early-Life Health, and Adaptation	Mike Allen University of Florida Projecting Future Land Use and Climate Change Impacts on the Suwannee River Estuary	Brandon Moody Charlotte County Board of County Commissioners Hurricane Ian and Water Quality in Charlotte County: Collaborations, Observations, Lessons Learned	Vivek Sharma University of Florida Integration of Sensor, IoT, and Machine Learning in Precision Irrigation and Nutrient Management	Jeff Littlejohn National Stormwater Trust, Inc. Smart Pond Technology for Improved Water Resource Benefits
11:20am	Katharine Mach University of Miami Collaborative Flood Modeling for Inclusive and Time-Efficient Climate Adaptation	Sarah Guzman Black & Veatch Evaluating Phosphorus Recovery from Biosolids to Address Eutrophication in Florida	S.M. Mushfiqul Hoque Florida State University A Justice-Based Decision Support Tool for Integrating Stormwater BMPs In Nutrient Removal in Florida	Roberto Koeneke University of Florida Suwannee River Estuary Non-market Valuation Studies of Recreational Saltwater Fisheries	David Tomasko Sarasota Bay Estuary Program Documenting Ian’s Effects on Sarasota Bay – Impacts and Timeline for Recovery	Judyson Oliveira University of Florida Evaluating Automated Drain Tile System in Subirrigated Vegetable Production Areas	Amy Wicks Wicks Consulting Group Case Study 1: Babcock Ranch and Hurricane Ian
11:35am	David Colangelo SFWMD South Florida Water Management District Sea Level Rise and Flood Resiliency Plan, 2023	Tracey Schafer University of Florida Internal Phosphorus Loading from USJRB Lakes	Katherine Deliz University of Florida A Socio-Environmental Cluster Analysis to Assess Vulnerability to Per- and Polyfluoroalkyl Substances (PFAS) Exposure in Brevard County, Florida	Sydney Honeycutt University of Florida Engaging Stakeholders to Enhance Resilience in the Suwannee River Basin	Maryam Pakdehi Florida State University Hindcasting Flood Depths Across Florida During Hurricane Ian Using Machine Learning Algorithms	Boaz Tulu University of Florida Streamlining Precision Irrigation: Developing A Decision Support Tool for Sensor Data Processing	Jose De Jesus Port Tampa Bay Case Study 2: Port Tampa Bay and Hurricane Ian

Discussion | 11:50am

Lunch Provided (Grand Ballroom) | 12:00pm

Concurrent Sessions — 1:30pm - 3:00pm

	Room 2335	Room 2340	Room 2355	Room 2365	Auditorium	Room 3315	Room 3320
	Session 8	Session 9	Session 10	Session 11	Session 12	Session 13	Session 14
Session Title	Data-driven Insights for Resilience Planning	Investigating Hotspots of Soil Legacy Phosphorus and Management for Soil P Remediation	Community Stormwater Ponds: Intersecting Science, Stakeholders & Decision-Making	Advances in Hydroecological Connections	Recovering Our Coastal Waters: Human Interventions to Restore Water Quality and Coastal Ecosystems	Irrigation and Nutrient Management Technology Advancement	Volunteer Power: The Role of Community Science in Water Research Initiatives
Moderator	Nicole Cortez SFWM	Jiangxiao Qiu University of Florida	Michelle Atkinson UF/IFAS Extension	Mike Allen University of Florida	Anna Braswell & Ashley Smyth University of Florida	Sandra Guzman University of Florida	Gretchen Lescord University of Florida

Introduction | 1:30pm

1:35pm	Tara Root U.S. Geological Suvery Data Integration, Analysis, and Forecasting for Coastal Areas: An Overview of USGS Portals And Tools	Daniel Petticord Cornell University Grass Species Influences Phosphorus Losses in Historically Fertilized Pasture Soil: A Mesocosm Study	<p><u>Panelists:</u> Russell Hoffman Steven Postle Alexander Reisinger Mary Lusk Paul Monaghan</p> <p><u>Panel Focus:</u> Stormwater ponds are designed and managed by individual, community, and regulatory levels of society. These ponds are designed to provide primary services (flood control, pollutant removal) but also provide numerous secondary services. Management of these ponds may limit their potential to provide multiple ecosystem services. This panel will explore various management styles and some of their consequences on social, economic, and environmental conditions within the community and beyond.</p>	Philip Stevens Florida Fish and Wildlife Conservation Commission Including Hydroecologic Connections at the Land-Sea Interface in Conservation of Sportfish Habitat	Nikki Dix Guana Tolomato Matanzas National Estuarine Research Reserve Water Quality in the Guana Tolomato Matanzas National Estuarine Research Reserve	Laura Almendra Martin University of Florida Microwave Remote Sensing-Based Machine Learning Method for Irrigation Estimation in Florida	Shelly Krueger University of Florida Challenges and Successes of Community Science: Perspectives from Multiple Programs in the Southeast
1:50pm	Jason Bellino U.S. Geological Suvery Daily Estimates of Evapotranspiration for Florida and the Southeastern US, 1985-2022	Haoyu Li Archbold Biological Station Grass Species Differ in their Effect on P Runoff from Phytoremediation Harvest Strips in a FL Ranch		Steve Leitman Waters Without Borders Relation Between Science and Current Management in the Apalachicola-Chattahoochee-Flint Basin	Anna Braswell University of Florida Sources of Water in Salt Marshes: Detangling Drivers of Nutrient Processing, and Plant Productivity	Bernard Cardenas University of Florida Irrigation Efficiency and Water Conservation: Standard Sprinkler Nozzles Vs. High Efficiency Nozzles	Taylor Nicholls Laurentian University Quantifying Contaminants in Subsistence Fish from Traditional Territory of Wahnapietee First Nation
2:05pm	Jayantha Obeysekera Florida International University Assessment of Trends in South Florida Sub-Daily Rainfall	Benjamin Uveges Cornell University Tracing Source and Mobility of Legacy Phosphorus in Ranch Soils- Insights from Uranium Isotopes		John Tracy University of Florida Investigating Hydrologic Alteration as a Main Driver of Forest Composition Shifts in a Florida River	Corianne Tatariw Rowan University Accidental Intervention: Prescribed Burning Alters Tidal Marsh Nitrogen Processing	Gregory Conde University of Florida Adaptive And Predictive Decision Support System for Irrigation Scheduling	Rick O'Connor University of Florida Citizen Science: An Effective Method of Educating the Public About the Health of Their Bay
2:20pm	Michelle Irizarry-Ortiz U.S. Geological Suvery Characterizing Historical and Projected Future Droughts for South Florida	Jiangxiao Qiu University of Florida Unravelling Spatial Heterogeneity of Soil Legacy Phosphorus in Subtropical Grasslands		Ying Ouyang USDA Forest Service Comparison of Evapotranspiration Between Croplands and Forest Lands in a Humid Subtropical Region	Laura Reynolds University of Florida Seagrasses: Both Indicators and Drivers of Coastal Water Quality	Daniel Palacios-Linares University of Florida Innovation and Technologies in Agricultural Nutrient Management: Sensing Techniques at Field-Scale	Marina Schwartz University of Florida Florida Lakewatch: 37 Years of Volunteerism Driving Research of Florida's Aquatic Resources
2:35pm	Anushi Obeysekera SFWM Water Supply Vulnerability Assessment for Florida's Lower East Coast Planning Region	Ran Zhi University of Florida Nutrient Distribution Across Deep Soil Profiles Under Different Management Practices		Mark Rains University of South Florida Spatial and Temporal Variability in Hydrological Connectivity in Stream-Wetland Flow Networks	Ashley Smyth University of Florida Working Waterfronts for You: Using Shellfish Aquaculture for Water Quality Restoration	Uday Bhanu Prakash Vaddevolu University of Florida Optimizing Irrigation Practices: The Role of Soil Moisture Sensors in Florida Agriculture	Daniela Maizel University of Miami Public Health Impacts of Florida Communities Exposed to Cyanobacterial Harmful Algal Blooms

Discussion | 2:50pm

Afternoon Refreshment Break | 3:00pm

Concurrent Sessions — 3:30pm - 5:00pm

	Room 2335	Room 2340	Room 2355	Room 2365	Auditorium	Room 3315	Room 3320
	Session 15	Session 16	Session 17	Session 18	Session 19	Session 20	Session 21
Session Title	Florida's Water Management Districts: Aligning Resilience and Restoration Efforts	Water Quality Drivers and Impacts on Public Wildlife and Ecosystem Health	Integrating Collaborative and Multi-disciplinary Approaches for Effective Water Resource Management	Hydrologic Modeling to Advance Water Management	Coastal Resilience, Nature-Based Solutions, Ecosystem Conservation and Connectivity	Rethinking Urban Landscapes to Protect Our Water	Great Florida Riverway Restoration: Launching a Vital New Beginning
Moderator	Wesley Brooks State of Florida	Mary Lusk University of Florida	Lisa Krinsky University of Florida	Jeffery King ATM - A Geosytec Company	Afsheen Sadaf University of Florida	Stacie Greco Alachua County EPD	Casey Fitzgerald Florida Springs Council
Introduction 3:30pm							
3:35pm	Ron Brockmeyer SJRWMD Collaborative Restoration of Coastal Wetlands	Paul Donsky University of Florida Flood Disturbances Impact the Autotrophic Communities in the Karst Springs of the Suwannee River, FL	Darlene Saindon Velez University of Florida Healthy Farms-Healthy Bays – Finding Common Ground Within Uncommon Partnerships	Joe Carter SRWMD Data-Driven Analysis of Patterns and Drivers of Flow Change in the Santa Fe River Basin of Florida	Jules Bruck University of Florida Coastal Resilience & Nature Based Solutions- a Deed Project	Nicholas Taylor University of Florida The Thirst of Our Urban Landscapes	Stephen Walsh Florida Museum of Natural History Potential Implications for Fish Populations of a Restored Free-Flowing Ocklawaha River
3:50pm	Cassandra Armstrong SFWMD Strengthening Climate Resilience: Key CERP Projects for Greater Everglades Restoration	Mileisha Velázquez López University of Florida Impacts of PFAs and Microplastics in Aquatic Systems: A Critical Review	Beatriz Inacio University of South Florida Using Community Based Research to Advance Equitable Infrastructure	Rob de Rooij University of Florida Simulating Nitrate Concentrations in the Suwannee River by combining SWAT-MODFLOW with MODPATH	Afsheen Sadaf University of Florida Coastal Resilience Through Nature-Based Solutions—A GIS Model for Living Shorelines at APG, Maryland	Eliana Bardi Alachua County EPD Local Government Tools To Shift Our Landscaping Paradigm	Gian Basili U.S. Fish and Wildlife Service Enhanced Manatee Population Viability Via Ocklawaha River and Springs Restoration
4:05pm	Fred Sklar SFWMD Building Adaptive Foundational Resilience for Coastal Wetlands: An Everglades Experiment	Shin-Ah Lee University of Florida Sources and Seasonal Distributions of Organic Matter in the Caloosahatchee River Estuary	Lisa Krinsky University of Florida Progress & Priorities for Cyanohabs in Florida: Insights From the State of the Science Symposium II	Jeff Geurink Tampa Bay Water Continuous Improvement for the Integrated Hydrologic Model and Integrated Northern Tampa Bay Model	Martha Ryan University of Delaware Improving the Surface Water Quality of Coastal Basins with Resilient Land Cover Scenarios	Basil Iannone University of Florida Alternative Landscaping as a Water Conservation Strategy In Expanding Residential Landscapes	John Hendrickson SJRWMD (Retired) Macronutrient Delivery from a Free-Flowing Ocklawaha: Implications for the Lower St. Johns River
4:20pm	Tom Frick SJRWMD A Collaborative Approach to Resilience	Madison Trowbridge SWFWMD Iron: A Limiting Nutrient for Benthic Macroalgae in Florida Springs?	Yilin Zhuang University of Florida Florida Well Owner Network: Extension Outreach to Improve Private Well Water Quality and Stewardship	Mark Ross University of South Florida Framework to Improve Simulation Processes of the Integrated Hydrologic Model	Mojtaba Tahmasebi University of Florida Anticipating Future Land Use and Land Cover Transformations in Aberdeen Proving Ground, Maryland, via MOLUSCE Plugin Modeling	Emily Lang FDEP Florida Friendly Landscaping™ Beautiful Landscapes Protecting Florida's Water	Thomas Hocht University of Florida Ocklawaha River Restoration: A Critical Florida Wildlife Corridor Connection
4:35pm	Ana Carolina Maran SFWMD South Florida Water Management District' Resiliency Efforts and Coordination	Edgar Marcillo University of Florida How Do Environmental Risks Affect the Profitability of the Aquaculture Industry in Florida?	Keeli Carlton Sustainable Water Communities One Water Master Planning: Achieving the Full Benefits Of Water	Yu Zhang University of Central Florida A Multi-Scale Framework for the Integrated Hydrologic Model	Y. Peter Sheng University of Florida Mangroves Provide Significant Flood Protection Service in a Changing Climate	Discussion	Margaret Spontak Great Florida Riverway Trust The Great Florida Riverway: How Economics, Recreation and Social Marketing Shifted Public Opinion
Discussion 4:50pm							
Poster Session & Reception with Student Poster Competition and Judging Rion Ballroom 5:30pm - 7:30pm							

Opening Plenary Session

[Grand Ballroom]

Introduction and Welcome

Matt Cohen, *Interim Director*, University of Florida Water Institute

Mark Rains, *Chief Science Officer*, Florida Department of Environmental Protection

8:30am

Keynote Speaker

Catherine L. Kling

Professor

Charles H. Dyson School of Applied Economics and Management

Cornell University

“Measuring the Economic and Social Benefits of Water Quality Improvements”

NOTES

Concurrent Sessions — 10:30am - 12:00pm

	Room 2335	Room 2340	Room 2355	Room 2365	Auditorium	Room 3315	Room 3320
	Session 22	Session 23	Session 24	Session 25	Session 26	Session 27	Session 28
Session Title	Intersecting Resilience Planning and Decision-Making: Responding to Today's Needs and Future Conditions	Technology and Decision Tools for Improved Water Management	Impacts of Climate Variability and Change on Water Availability and Quality	Application of AI/ Machine Learning Approaches in Water Resources Management	Synthesizing Data and Models to Inform Lake Okeechobee Management in the LOSOM Era	Education Tools, Approaches and Programs for Water Protection	Advancing Water Resources Protection in Response to Environmental and Management Challenges
Moderator	Ana Carolina Maran SFWMD	Paloma Carton de Grammont University of Florida	Young Gu Her University of Florida	Tirusew Asefa Tampa Bay Water	David Kaplan University of Florida	Sadie Hundemer University of Florida	Shimelis Setegn SFWMD

Introduction | 10:30am

10:35am	Asif Mohamed SFWMD Water Resources Management and Operational Decisions in the Context of Evolving Conditions	Cristian Cardenas-Lailhacar University of Florida Carbon Emissions Reduction and Nutrients Recovery in Wastewater Treatment Plants	Nicole Cortez SFWMD SFWMD's Water and Climate Resilience Metrics: A Status Update	Tirusew Asefa Tampa Bay Water Two Decades of Machine Learning Applications in Water Supply Management	Jessica Mallett U.S. Army Corps of Engineers LOSOM: Bringing Together Data, Models and Water Management Lessons-Learned	Shannon Carnevale UF/IFAS Extension Empowering the Public to Make Change Through Watershed Education and Stewardship	Shimelis Setegn SFWMD Coupled Watershed Water Quality Model as a Decision Support Tool for Water Resources Protection
10:50am	Yanbing Jia SJRWMD Enhancing Flood Resilience: A Real-Time Flood Forecasting Model for the Upper St. Johns River Basin	Ronald Fick Center for Coastal Solutions Optimizing Septic to Sewer Conversion Projects	Megan Black University of Florida Quantifying Yearly High-Latitude Lake CDOM from Ice Sheet to Coast in Southwestern Greenland	Hui Wang Tampa Bay Water Multi-objective Optimization for Monthly Water Resources Allocation from Multiple Supply Sources	Anna Wachnicka SFWMD Learning From the Past to Inform Lake Okeechobee Management in the LOSOM Era	Lisa Sanderson UF/IFAS Extension Wiser Lawns and Landscape Workshops for New Residents Lead to Water Savings	Dan Dai University of Florida Spatial Stability of Water Quality in the Lake Okeechobee Watershed
11:05am	Christine Carlson SFWMD Defining Flood Prone Areas and Estimating Flood Extent Area and Volume	Katie Glodzik University of Florida Enhancing Hydrological Studies Through Precise Wetland Shape Mapping With LIDAR-Derived Dems	Kathleen Coates NFWFMD Factors Driving Persistent Compound Flooding in Northwest Florida: 2018 - 2022	Shubo Fang University of Florida Critical Source Areas Identifying to Enhance Water Quality: A Case Study in Panhandle Florida	Maitane Olabarrieta University of Florida Forecasting the Impacts of Lake Operations on the Estuarine Hydrodynamics and Pollutant Transport	Michael D'Imperio UF/IFAS Extension Educating Through Technology: Influencing Decision Makers and the Public on Water Quality	Seneshaw Tsegaye Florida Gulf Coast University Application of Virtual Reality (VR) for Urban Flood Modeling and Mitigation
11:20am	Timothy Gysan USACE Comprehensive Central and Southern Florida Study – Multipurpose Study for Building Resiliency	Antonio Diaz University of Florida The "Bathy-drone" for Underwater Survey and Mapping	Donghyeon Kim University of Florida Investigation of Historical Changes in Air Temperature and Rainfall Events in Florida	Enrique Orozco Lopez University of Florida Interpretable Transformer Neural Network Prediction of Diverse Environmental Time Series	Jordan Beckler Florida Atlantic University Parameterization of Temporally-Resolved Benthic Nutrient Fluxes in Lake Okeechobee	Laura Warner University of Florida No More Sprinklers in the Rain! – Insights from an Innovative Rainfall Communication Intervention	Jie (Jack) Zeng SFWMD Application Of 2D Hydraulic Model to Kissimmee River Restoration Project
11:35am	Angela Schedel HDR Leveling the Playing Field: Taking Social Equity into Account in Adaptation Alternatives	Sandie Will SWFWMD An Overview of the Southwest Florida Water Management District's Available Monitoring Data and Maps	Kevin Zhu SFWMD ET Trends and the Influencing Factors and Correlations	Katie Pisarello USDA-ARS Hydrologic Impact of Agricultural Management and Climate in the Little River Experimental Watershed	Mauricio Arias University of South Florida Nutrient Management and Optimization for Algae Bloom Reduction in Lake Okeechobee	Steven Noll University of Florida Florida's Springs- A Personal Journey	Kai Rains University of South Florida Tool for Wetland and Water Project Prioritization in the Indian River Lagoon Watershed

Discussion | 11:50am

Lunch Provided (Grand Ballroom) | 12:00pm

Concurrent Sessions — 1:00pm - 2:30pm

	Room 2335	Room 2340	Room 2355	Room 2365	Auditorium	Room 3315	Room 3320
	Session 29	Session 30	Session 31	Session 32	Session 33	Session 34	Session 35
Session Title	Building Resilience in Water Resource Management	The Complex Nature of Invasive Species in Aquatic Ecosystems	Climate Changed: How Research, Science, and Reporting Translate to Policy and Practice	Forecasting Impacts of Climate Change, Extreme Events and Sea Level Rise	Understanding and Addressing Nitrogen Contamination in Florida's Groundwater	Development and Assessment of Payment for Water Service Programs on Ranchlands in the Northern Everglades	Strategies for Advancing Water Resources Protection
Moderator	Cassandra Armstrong SFWMD	Matthew Thomas University of Florida	Pierce Jones University of Florida	Katherine Serafin University of Florida	Hailey Hall AquiferWatch Inc	Elizabeth Boughton Archbold Biological Station	Darlene Saindon Velez University of Florida

Introduction | 1:00pm

1:05pm	<p>Ann Shortelle Bio-Tech Consulting, Inc. Rethinking Water Supply Strategies for a Resilient Future</p>	<p>Stephen Enloe University of Florida A Long Hard Look at Invasive Aquatic Macrophytes and Water Issues in Florida</p>	<p><u>Panelists:</u> Jason Evans Brenda Defoe-Suprenant Jennison Searcy Gerald Murphy</p> <p><u>Panel Focus:</u> Changing climate has altered policy development in Florida. Learn how communities can respond to changing climate dynamics by embracing these policy changes and implementing comprehensive plan policies, land development regulations, and stormwater management criteria. Community leaders, planners, stormwater professionals, and interested citizens can better address increasing stormwater quantities and improving water quality with adopted community adaptations for a changing climate.</p>	<p>Fatih Gordu SJRWMD Can We Reliably Forecast the Future Without Knowing the Past? UFA Level Predictions in North Florida</p>	<p>Rick Copeland AquiferWatch Inc Results of a Decade of Monitoring Groundwater Nitrogen Concentrations in Florida's Santa Fe Basin</p>	<p>Benita Whalen Florida Cattlemen's Association Development of Payment for Water Services in the Northern Everglades</p>	<p>Brooke Moffis UF/IFAS Extension Lake County Enhancing Water Conservation and Pollinator-friendly Landscapes through Industry Education</p>
1:20pm	<p>Karin Smith SFWMD The Role of MFLs in Conserving and Protecting Water Resources in Southeast Florida</p>	<p>Adam Searles University of Florida Shifting Macrophytes: Thalassia and Caulerpa Support Unique Ecological Communities</p>		<p>Yogesh Khare SFWMD A Stochastic Framework Implementation to Forecast Stages in the Everglades for Operational Planning</p>	<p>Weizhe Weng University of Florida Assessing Health and Economic Impacts of Nitrate Contamination in Florida's Private Wells</p>	<p>Amartya Saha Archbold Biological Station Estimating Water/ Nutrient Retention of Payment for Water Services Programs on S. Florida Ranchlands</p>	<p>Lorna Bravo UF/IFAS Extension Broward County Rain Barrell Water Quality in South Florida</p>
1:35pm	<p>Young Gu Her University of Florida Climate Change Impact on the Water Quality of the Kissimmee River – Lake Okeechobee System</p>	<p>Lindsey Reisinger University of Florida Parasite-Mediated Invasion of Freshwater Crayfish</p>		<p>Vladimir Paramygin University of Florida Forecasting of Coastal Inundation Risk in Current and Future Climates</p>	<p>Hailey Hall AquiferWatch Inc Is Your Water Well? Private Well Test Awareness and Nitrate Monitoring in the Suwannee River Basin</p>	<p>Betsey Boughton Archbold Biological Station Development and Assessment of Payment for Water Service Programs on Ranchlands in the Northern Everglades</p>	<p>Pamela Dugan EutroPHIX Accelerated Water Restoration Approaches in Florida</p>
1:50pm	<p>Tibebe Dessalegne SFWMD Characterizing Water Level Trends at South Florida Coastal Structures</p>	<p>Nathan Burkett-Cadena University of Florida Impacts of Invasive Species on Arbovirus Transmission Ecology in The Everglades</p>		<p>Sangdon So ATM - A Geosytec Company Island-Wide Flood Hazard Risk Mapping and Assessments in Grand Bahama</p>	<p>Stacie Greco Alachua County EPD Nitrogen Load Reduction from Alachua County's Fertilizer Ordinance and Behavior Change Campaign</p>	<p>Anthony Betts SFWMD Dispersed Water Management - Programmatic Perspective</p>	<p>Tracey Piccone SFWMD Everglades Stormwater Treatment Areas: The World's Largest Constructed Treatment Wetland Project</p>
2:05pm	<p>Zoë Strooboscher University of Florida The Past 10 Years of Water Quality Research on the Indian River Lagoon: An Ongoing Review</p>	<p>Melissa Miller University of Florida Linking Burmese Python Ecology with Removal Efforts in The Everglades</p>		<p>Dat Tran EDR Forecasting Costs of Meeting Future Water Demand Under Climate Variability and Socioeconomic Change</p>	<p>Ryan Smart Florida Springs Council Building a Better Basin Management Action Plan for the Santa Fe River</p>	<p>Matt Pearce Pearce Cattle Company The Role of Dispersed Water Management in the Northern Everglades - A Rancher Perspective</p>	<p>Gabriela Sullivan City of Ocala Reuse, Restore, Recharge, Reduce, & Recreate—The Ocala Wetland Recharge Park</p>

Discussion | 2:20pm

Afternoon Refreshment Break | 2:30pm

Closing Plenary Session

[Grand Ballroom]

Tribute to Dr. Wendy Graham’s legacy as founding Director of the UF Water Institute

Presentation of Student Poster Competition Awards

Closing Panel: Translating Scientific Insights to Decision Making

Panel Description:

The scientific process is about answers to questions. This Water Institute symposium was created to share the insights from that process for improving water sustainability in Florida and beyond, with the goal of aiding policy makers in their process of meeting our myriad water challenges. Florida is already a leader in water governance, but as our modern challenges reveal, there is much to be done to protect our aquifer, our aquatic ecosystems, our coastal infrastructure, and our legacy as natural resource stewards. This panel explores the pathways of scientific knowledge reaching our governance structures at all levels, the reciprocal pathways of information that help guide crucial research questions, and the best practices for ensuring open discourse between scientists, decision makers, regulators, and the public.

Panelists:

Virginia Barker, *Director*, Brevard County Natural Resources Management Department

Wesley Brooks, *Chief Resilience Officer*, State of Florida

Rick Hutton, *President*, FWEA Utility Council and *Supervising Engineer*, Gainesville Regional Utilities (GRU)

Cathy Kling, *Professor*, Charles H. Dyson School of Applied Economics and Management, Cornell University

Steve Loheide, *Professor*, Department of Civil and Environmental Engineering, University of Wisconsin

Michael A. Register, *Executive Director*, St. Johns River Water Management District

Timothy Gysan, *Resilience Senior Project Manager*, Ecosystem Branch, U.S. Army Corps of Engineers, Jacksonville District

Julie Wraithmell, *Executive Director*, Audubon Florida

Moderator:

Lisa Krinsky, *Regional Water Resources Extension Agent IV*, UF/IFAS Southeast District

Symposium Concludes | 5:00pm

3:00pm

NOTES
