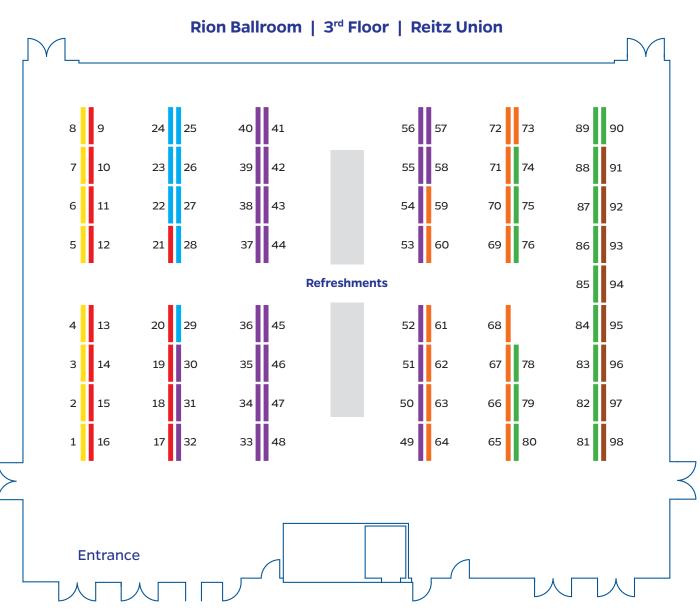
# **POSTER ROOM LAYOUT**



#### **POSTERS BY THEME**

- High Latitude Hydrology (Posters 1-8)
- Education Technology and Decision Tools for Improved Water Management (Posters 9-21)
- AI/Machine Learning Big Data and Convergent Science for Water Systems (Posters 22-29)
- Water Quality Drivers and Impacts on Public Wildlife and Ecosystem Health (Posters 30-58)
- Intersecting Science Stakeholders and Decision-Making (Posters 59-73)
- Building Resilience to Extreme Events Climate Change and Sea Level Rise (Posters 74-90)
- Hydroecologic Connections Across the Land-Sea Continuum (Posters 91-98)

# **POSTER DIRECTORY**

Posters are listed in order by topic, poster session hour, then by presenter last name.

## High Latitude Hydrology

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Session One	Kira	Zautcke	University of Florida	Influence of Redox Conditions on Long-term Carbon Sequestration in Swedish Fjord Sediments	1
Session Two	Izuchukwu	Ezukanma	University of Florida	Vegetation Variation and Elemental Compositions of Watersheds Along a Deglaciated Arctic Landscape	4
Session Two	Quincy	Faber	University of Florida	Connecting Students to Polar Science through Community Outreach	8
Session Two	Megan	Sanford	University of Florida	Microbial Community Composition of Three Swedish Fjords	2
Session Two	Yuseung	Shin	University of Florida	Abiotic Controls of Metabolic Regimes in Greenland Streams	6

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Session One	Josh	Cunningham	University of Alabama	Simplified End-to-end Execution of Next Generation Water Resources Modeling Framework	21
Session One	Michael	D'Imperio	UF/IFAS Extension Sarasota County	Youth Relate Water Quality to Macroinvertebrate Biodiversity in a Hands-On Lab	9
Session One	Edgar	Guerron- Orejuela	University of South Florida	Pilot Scale Septic-to-Sewer Conversion Prioritization Map Using Analytic Hierarchy Process	13
Session One	Sepehr	Karimiziarani	University of Alabama	Efficient Access Patterns for National Water Model Data	15
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Session One	David	Weiss	University of Alabama	Improvements to Continental-scale Mapping Capability	19
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Session Two	S.M. Mushfiqul	Hoque	Florida State University	Iplangreens2: Integrated Planning Tool for Green Infrastructure Siting and Selection in Florida	14
Session Two	Stephanie	Lawlor	University of South Florida	Forensic Wetland and Deepwater Habitat Mapping for Setting Pre- Development Conditions	16
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## Al/Machine Learning Big Data and Convergent Science for Water Systems

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Session One	Sally	Elrashedy	University of Central Florida	Chemical Dosage Prediction for Drinking Water Treatment with Random Forest and Polynomial Regression	27
Session One	Hanyu	Qian	University of Florida	Bayesian Calibration Using Data from Biosensors: Predicting E.coli Concentration in Water	29
Session One	Saman	Rabiei	University of Florida	Mapping Florida Root Zone Soil Moisture in Real-Time with Satellites, Soil Data, Using Al Algorithms	23
Session Two	Nicholas	Chin	University of Florida	Connecting Red Tide (Karenia brevis) Bloom Timing and Severity to Environmental Conditions Across Southwest Florida	26
Session Two	Alireza	Ghaderi Bafti	Univeristy of Florida	Prediction of Root Zone Soil Moisture for Irrigation Using L-band Radiometry and Deep Learning	24
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# Water Quality Drivers and Impacts on Public Wildlife and Ecosystem Health

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Session Two	Tanya	Charan	University of Florida	US Nitrogen Deposition: Are Urban Areas Underrepresented in the N Deposition Monitoring Network?	34
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## Intersecting Science Stakeholders and Decision-Making

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# Building Resilience to Extreme Events Climate Change and Sea Level Rise

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# Hydroecologic Connections Across the Land-Sea Continuum

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# NOTES