



EDUCATION, AWARENESS, & TECHNOLOGY

# MISSISSIPPI RIVER ALLUVIAL AQUIFER STATES GROUNDWATER CONFERENCE

April 22 & 23, 2025  
SpringHill Suites Memphis Downtown  
85 West Court Ave.  
Memphis, TN 38103

## PROGRAM

### Groundwater Champions



# Welcome to the 2025 AGWT-NCAAR Mississippi River Alluvial Aquifer States Groundwater Conference!

The objective of American Ground Water Trust conferences is to showcase topical and/or controversial groundwater issues and to facilitate information sharing among landowners, groundwater end-users, regulators, management agencies, scientists, engineers, lawyers, and citizens who have economic or environmental interests in water resources.

## Continuing Education

Certificates of attendance are available for all attendees upon completion of CE Form

## Conference Sponsors



*A WILO BRAND*

**Tuesday, April 22**

- 7:30-8:20 am      **Registration & Refreshments**
- 8:30-8:40 am      **Welcome and Overview**  
Jeremy Kuhn, Chair - AGWT Executive Board/Director - North America, Roscoe Moss, Phoenix, AZ
- 8:40-9:00 am      **Groundwater Sustainability Strategies: The National Center for Alluvial Aquifer Reserach's Role in the Lower Mississippi River Basin**  
Drew Gholson, PhD, Assistant Professor & Extension Irrigation Specialist, Coordinator, NCAAR Delta Reserach and Extension Center, MS State University, Stoneville, MS
- 9:00-9:30 am      **Overview of Groundwater Sustinability Investigations for Highly Urbanized and Rural Areas of West TN**  
Brian Waldron, PhD, Director, CAESER - University of Memphis, Memphis, TN
- 9:30-10:00 am     **USACE Groundwater Projects in the Upper Mississippi Embayment**  
Mike Clay, PE, District Chief, Hydraulics and Hydrology Branch, USACE Memphis District, Memphis, TN
- 10:00-10:30 am   **Break and Exhibitor Introductions**
- Moderator**                      TBD
- 10:30-11:00 am   **2024 Arkansas Groundwater Protection and Management Report**  
Corbin Cannon, Arkansas Dept. of Agriculture, Natural Resoruces Division, Groundwater Section, Little Rock, AR
- 11:00-11:30 am   **Mississippi Groundwater Management Challenges and Opportunities**  
Kay Whittington, PE, MDEQ Office of Land and Water Resource's Division of Permitting, Jackson, MS
- 11:30-12:00 pm   **TBD**  
Speaker Invited
- 12:00-1:15 pm     **Lunch (provided)**
- 1:15-1:30pm       **Navigating Sustainability in Groundwater Management: Lessons from Mississippi v. Tennessee**  
Nimisha Wasankar, PhD Candidate and T. Prabhakar Clement, Professor, Director of the Center for Water Quality Research, Dept. of Civil, Construction and Envrionmental Engineering University of Alabama, Tuscaloosa, AL
- 1:30-2:00 pm      **TBD**  
Charles Dunning, Vice President of Hydrology, WellIntel, Milwaukee, WI
- 2:00-2:30 pm      **TBD**  
Speaker Invited

- 2:30-3:00 pm **TBD**  
Speaker Invited
- 3:00-3:30 pm **Break**
- Moderator** TBD
- 3:30-4:00 pm **LEAD, Is It Where We Thought It Would Be?**  
Jason Barrett, PhD, Associate Extension Professor & Interim Director, MS WRRI, MS State University Extension, Mississippi State, MS
- 4:00-4:30 pm **TBD**  
Speaker Invited
- 4:30-5:00 pm **TBD**  
**Speaker Invited**
- 5:00-6:00 pm **Reception, Networking & Aquifer in a Cup Activity led by University of Memphis**

## Wednesday, April 23

- 7:30-8:25 am **Registration and Refreshments**
- 8:25-8:30 am **Welcome - Day 2**  
Sara Chudnoff, PG, Executive Director, AGWT, Pinetop, AZ
- Moderator** TBD
- 8:30-9:00am **Applied Geophysics for Managed Aquifer Recharge Projects in The Mississippi Alluvial Aquifer**  
John Jansen, PG, PGp, PhD, Senior Geophysicist & Hydrogeologist, Collier Geophysics, Lakewood, CO
- 9:00-9:30 am **Feasibility Assessment of MAR in the Mississippi Delta Utilizing Riverbank Filtration and Groundwater Transfer and Injection Through Pilot Testing and Regional Hydrogeologic Modeling**  
Andrew M. O'Reilly, PhD, Research Hydrologist, Watershed Physical Processes Reserach Unit, National Sedimentation Laboratory, USDA - ARS, Oxford, MS
- 9:30-10:00 am **The Overlooked Importance of Oxbow Lake-Wetlands in Alluvial Aquifer Recharge and Regional Groundwater Flow**  
Gregg R. Davidson, PhD, Professor, Geology & Geological Engineering, University of Mississippi, Oxford, MS
- 10:00-10:30 am **Break**
- Moderator** Frank Tsai, PhD, PE, PG, FASCE, Chevron Professor of Engineering/Director - LA WRRI, LSU, Dept. of Civil and Environmental Engineering, Baton Rouge, LA
- 10:30-11:00 am **Hydrogeologic Digital Twin of the Mississippi River Valley Alluvial Aquifer: Integrating Geological and Airborne EM Data**  
Yuqi Song, PhD Candidate, Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, LA

- 11:00-11:30 am **Next-Gen Groundwater Flow and Saltwater Intrusion Modeling for the Mississippi River Valley Alluvial Aquifer: Integrated Airborne Geophysics, Borehole Data, and Water Samples**  
Michael Attia, PhD Candidate, Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, LA
- 11:30-11:50 pm **Life Cycle Analysis Cost of a Water Well**  
Jeremy Kuhn, Director - North America, Roscoe Moss
- 11:50-12:20 pm **The Challenges and Importance of Developing an Accurate CSM When Constructing a Water Well in Folded or Faulted Geology**  
Boone Abbott, PG, Project Geologist, Geosyntec Consulting, Inc., Birmingham, AL
- 12:20-1:30 pm **Lunch (provided)**
- Moderator** TBD
- 1:30-2:00 pm **Working With Your Contractor for a Successful Water Well Campaign**  
Verlin Johnson, Co-President, National Water Services, LLC, Lawrenceburg, TN
- 2:00-2:30 pm **Advancements in Water Well Screen Hydraulics for Production Wells**  
Kevin McGillicuddy, PG, Chief Hydrogeologist, Roscoe Moss Company, Los Angeles, CA
- 2:30-3:00 pm **Developing Sustainable and Resilient Water Supplies within the Mississippi River Alluvial Aquifer Using Ranney/Horizontal Collector Wells**  
Luca DeAngelis, PE, PG, Senior Hydrogeologist/Project Manager, Layne/Ranney Collector Wells, Layne, a Granite Company, Overland Park, KS
- 3:00-3:30 pm **Chemical Well Rehab**  
Lynn Templeton, Southeast Sales Manager – Water Well, Johnson Screens, Columbia, SC
- 3:30-4:00 pm **Well Rehab and Well Efficiency Case Studies**  
Kevin McGinnis, President, Cotey Chemical Corp., Lubbock, TX
- 4:00-4:30 pm **Submersible and Turbine Pump Selection, Pumping Costs and Troubleshooting**  
Charles Higgins, Director, FloWise Engineer at Preferred Pump & Equipment, Red Banks, MS
- 4:30 pm **Door Prize Awards**

## Conference Exhibitors

Johnson Screens  
Preferred Pump  
Roscoe Moss Company  
Southern Products & Silica Co.

# Registration Information

2025 AGWT-NCAAR Mississippi Alluvial Aquifer States Groundwater  
Conference

April 22 & 23, 2025

**Register online at [agwt.org/events](http://agwt.org/events)**

## Registration Overview

### General Registration

2 Day Registration	\$450.00
2 Day Full-Time Student	\$100.00
1 Day Registration (April 22 or 23)	\$245.00
1 Day Full-Time Student (April 22 or 23)	\$ 50.00
AGWT Members (2 Day Registration)	\$425.00
AGWT Members (1 Day Registration)	\$220.00

### Speaker Registration

Speaker (April 22)	\$ 0.00
Speaker (April 23)	\$ 0.00
Attend - Not Speaker (April 22)	\$100.00
Attend - Not Speaker (April 23)	\$100.00

### Moderator Registration

2 Day Registration	\$400.00
1 Day Registration	\$200.00
Download of Presentations in PDF - attendees	\$ 30.00
Download of Presentations in PDF - non-attendees	\$100.00

**Sponsor and Exhibit Opportunities** - See our event webpage for more information or choose options(s) during on-line registration

Checks should be made payable to AGWT  
Mail to: American Ground Water Trust  
50 Pleasant St., Suite 2  
Concord, NH 03301

For questions please call: (603) 228-5444