



EDUCATION, AWARENESS, & TECHNOLOGY

# COLORADO GROUNDWATER CONFERENCE & SHOWCASE DAY

October 21 & 22, 2024  
Colorado School of Mines, Green Center  
16th St., Golden, CO 80401

## PROGRAM

### Groundwater Champions



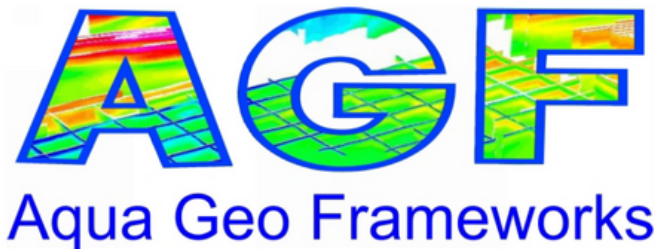
# Welcome to the 2024 Colorado Groundwater Conference & Showcase Day!

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

Approved for Colorado Water Well Drillers - 7.25 Colorado CE Hours  
(Course # 2024-01-049-A)

## Conference Sponsors



## Monday, October 21

- 7:30-8:20 am **Registration & Refreshments**
- 8:20-8:30 am **Welcome and Overview of the Colorado Groundwater Conference & Showcase Day**  
Sara Chudnoff, PG, Executive Director, American Ground Water Trust, Pinetop, AZ
- 8:30-9:00 am **Out of Sight, But Not Out of Mind: Colorado Groundwater Regulatory Updates**  
Kevin Donegan, CPG, Chief, Hydrogeology Section, Colorado DWR, Denver, CO
- 9:00-9:30 am **An Overview of the Diverse Groundwater Projects of the USGS - Colorado Water Science Center**  
Connor Newman, PG, Hydrologist/Groundwater Specialist, Colorado Water Science Center, Denver, CO
- 9:30-10:00 am **Groundwater Insights: Unveiling the Colorado Geological Survey's Latest Projects**  
Lesley Sebol, PhD, Senior Hydrogeologist, Colorado Geological Survey, CSM, Golden, CO
- 10:00-10:15 am **Improving Slope Stability and Mitigating Landslide Risk in the Majes Irrigation Project Through Biochar**  
Amanda Howell, PhD Candidate, Colorado School of Mines - Geophysics Dept., Golden, CO
- 10:15-10:45 am **Break and Exhibitor Introductions**
- Moderator** Jeremy Kuhn, Director - North America, Roscoe Moss Co., Phoenix, AZ/AGWT BOD Co-Chair
- 10:45-11:15 am **Will UAS Geoscience Save the World**  
Ronald S. Bell, Senior geoDRONEologist & Geophysicist, Drone Geoscience, LLC, Lakewood, CO
- 11:15-11:45 am **Geophysical Groundwater Exploration for Colorado's Varied Aquifers**  
Roy Bowling, PGp, Senior Geophysicist and Kristen Marberry, Hydrogeophysicist, Collier Geophysics, Lakewood, CO
- 11:45-11:15 am **Airborne Geophysical Surveys and Machine Learning Techniques to Explore for Thin Layers Within the Upper Black Squirrel Creek Ground Water Management District**  
Jared D. Abraham, MS, PG, PGP, Principal Geologist/Geophysicist, Ted H. Asch, Research Geophysicist, PhD, PGP, Nafyad S. Kawo, PhD, Hydrogeophysicist/Hydrogeologist, Aqua Geo Frameworks, LLC, Fort Laramie, WY and Tammi Renninger, PS, GISP, ElephantFish, LLC, Pine, CO
- 12:15-1:30 pm **Lunch (provided)**
- Moderator** Landon Beck, Principal Hydrogeologist - Hydrology & Hydrogeology, SLR International Corporation, Durango, CO

- 1:30-2:00 pm **Introduction to Water Administration, Well Permits and Water Rights**  
Wenli Dickinson, PE, Water Resources Engineer, Colorado DWR, Denver, CO
- 2:00-2:30 pm **Two Case Studies of Increased Sustainability of Groundwater Use in the Colorado Front Range**  
Anna Elgqvist, EI, Project Engineer, Ben Bader, Project Hydrogeologist and Chris Fehn, PE, PG, Project Manager, Lytle Water Solutions, LLC, Lakewood, CO
- 2:30-3:00 pm **Aurora Water's Radial Collector Well Providing Riverbank Filtration Solutions to Address Yield and Water Quality Challenges in the South Platte River Alluvial Aquifer**  
Dave Colvin, PG, PMP, Groundwater Team Lead, LRE Water, Denver, CO, **co:authors:** Justin Montes, Project Manager, City of Aurora Water, Aurora, CO, and Jim Kriss, PE, Principal Infrastructure Engineer, Carollo Engineers, Broomfield, CO
- 3:00-3:30 pm **ASR, From Local to Regional**  
Reid Polmanteer, PG, Senior Hydrogeologist and Shaden Musleh, PE, Director of Colorado Water Resources/Principal Water Resources Engineer, INTERA INC, Boulder, CO
- 3:30-4:00 pm **Unraveling Complexity: How Numerical Models and AI Can Work Together to Solve Data-Poor Groundwater Problems**  
Lauren Foster, PhD, Project Manager/Hydrologist, Neptune and Company, Inc., Louisville, CO
- 4:00-4:30 pm **A Graphical Interface and Decision Support Tool to Evaluate Hydrologic Scenarios**  
Jessica Rogers, PhD, Senior Project Hydrogeologist, Doug Hayes, Senior Technology Specialist and Gilbert Barth, PhD, Principal/Boulder Office Manager, S.S. Papadopoulos & Associates, Inc., Boulder, CO
- 4:30-5:00 pm **Tools to Detect PFAS in Complex Matrices**  
Sarah Choyke, PhD, Technical Director, Eurofins Environment Testing - Arvada, CO
- 5:00 pm **Door Prize Awards**

## Tuesday, October 22

- 8:00 - 11:30 am **Exhibitor Space Open to the Public and Demo Sign Ups**
- 9:00 - 11:00 am **Student Speed Interviews (sponsored by Collier Consulting)**  
Professionals interested in participating will need to sign up prior to or the morning of 10/21. Student signups will be available after 12:00 pm 10/21 and on 10/22 between 8:00 and 9:00 am.
- 12:00 - 3:30 pm **Exhibitor Demos**  
Sign ups, time slots and demo location will be available from exhibitors participating.

# Conference Exhibitors

Colorado Groundwater Association

Cotey Chemical

Collier Consulting

Dynotek

Eurofins Environmental Testing

Helanbak, LLC

Halliburton - Baroid IDP

Hydro Resources

Johnson Screens

KP Ventures Well Drilling & Pump

Layne (a Granite Company)

Mount Sopris Instruments

Neptune & Company, Inc.

Preferred Pump & Equipment

Roscoe Moss Company

## Registration Information

2024 Colorado Groundwater Conference & Showcase Day - Golden, CO

October 21 & 22, 2024

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

### Registration Overview

General Registration	\$250.00
AGWT/CGWA Members	\$225.00
Moderator Registration	\$200.00
Speaker Registration	\$ 0.00
Student Registration (with Collier Consulting Scholarship)	\$ 0.00
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

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For questions please call: (603) 228-5444