



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

Program to be submitted for CO Water Well Drillers and Water Operators

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 Chudhoff, PG, Executive Director, American Ground Water Trust, Pinetop, AZ
- Moderator** TBD
- 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** TBD
- 10:45-11:15 am **Will UAS Geoscience Save the World**
Ronald S. Bell, Senior geoDRONEologist & Geophysicist, Lakewood, CO
- 11:15-11:45 am **Geophysical Groundwater Exploration for Colorado's Varied Aquifers**
Kristen Marberry, Hydrogeophysicist, and John Jansen, PG, PGp, PhD, Senior Geophysicist & Hydrogeologist, 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
Dynotek
Helanbak, LLC
Halliburton - Baroid IDP
Hydro Resources
Johnson Screens
KP Ventures Well Drilling & Pump
Mount Sopris Instruments
Roscoe Moss Company

Registration Information

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Register online at 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
Mail to: American Ground Water Trust
50 Pleasant St., Suite 2
Concord, NH 03301

For questions please call: (603) 228-5444