



EDUCATION, AWARENESS, & TECHNOLOGY

NEW MEXICO GROUNDWATER CONFERENCE

July 10 & 11, 2024
State Bar of New Mexico
5121 Masthead NE, Albuquerque, NM 87109

PROGRAM

Groundwater Champions



Welcome to the 2024 New Mexico 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

Approved by the State Bar of NM for NM Attorneys
(Course ID 228687_22222, 4 G Credits)

Approved by NMED for Water and Wastewater Utility Operators
(7/11 - 6.5 hrs and 7/12 - 6 hrs)

Approved by NMOSE for Water Well Drillers (6 hrs)

Certificates are available for all attendees upon completion of CE Form

Conference Sponsors

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Wednesday, July 10

- 7:30-8:20 am **Registration & Refreshments**
- 8:20-8:30 am **Welcome and Overview of the New Mexico Groundwater Conference**
Sara Chudnoff, PG, Executive Director, American Ground Water Trust, Pinetop, AZ
- 8:30-9:00 am **Keynote**
Overview of New Mexico's Policy Framework for a Secure Water Future
Tanya Trujillo, JD, Water Policy Advisor to the Governor/Deputy State Engineer, State of New Mexico, Santa Fe, NM
- 9:00-9:30 am **Recent Developments in the Use of Mineralized Groundwater in SE New Mexico**
John D'Antonio Jr., PE, Owner/Principal, American West Water Advisors, LLC, Rio Rancho, NM
- 9:30-10:00 am **Opportunities in Produced Water: A New Resources**
Zachariah Hildebrand, PhD, Chief Scientific Officer, Infinity Water Solutions, El Paso, TX
- Moderator** Diane Agnew, Water Rights Program Manager, ABCWUA, Albuquerque, NM
- 10:00-10:30 am **Break and Exhibitor Introductions**
- 10:30-11:00 am **Risk and Toxicology Testing of Non-Traditional Water Treatment and Reuse**
Mike Hightower, PE, Program Director, New Mexico Produced Water Consortium, Las Cruces, **Co-Authors:** Pei Xu, PhD, Professor, Dept. of Civil Engineering, NMSU
- 11:00-11:30 am **Toxicity Reduction Evaluation (TRE) of Produced Water From the Permian Basin: A Step Forward on the Design of Reuse-Oriented Treatment Trains**
Mauricio Tarazona, PhD Candidate, NMSU Dept. of Civil Engineering, Las Cruces, **Co-Authors:** Mike Hightower, PE, Program Director, New Mexico Produced Water Consortium, Pei Xu, PhD, Professor, and Yanyan Zhang, Associate Professor, PhD, PE, Dept. of Civil Engineering, NMSU
- 11:30-12:00 pm **History of New Mexico's Induced Seismicity Activity, Monitoring and Mitigation**
John Jansen, PG, PGp, PhD, Senior Geophysicist & Hydrogeologist and Ted Stieglitz, PhD, PG, Senior Geophysicist, Collier Geophysics, Lakewood, CO
- 12:00-1:00 pm **Lunch (provided)**
- Moderator** Phillip Rust, PG, LHG, Senior Hydrogeologist, NV5, Albuquerque, NM
- 1:00-1:30 pm **Groundwater Decision Support Modeling: Getting More From Less**
Katherine Markovich, PhD, Senior Hydrogeologist, INTERA Inc., Albuquerque, NM
- 1:30-2:00 pm **Surface Water-Groundwater Interaction Modeling in Water Rights Administration in the West**
James McCord, Principal Hydrogeologic Engineer/Groundwater Lead, Lynker, Albuquerque, NM
- 2:00-2:30 pm **Projection of Climate Changed-Based Scenarios on the Conjunctive Use and Movement of Surface Water and Groundwater in the Lower Rio Grande**
Kevin Perez, Hydrologist, Neptune and Company, Inc., Denver, CO

- 2:30-3:00 pm **Evaluating Dynamics of the Mesilla Bolson Aquifer Water Budget with Remote Sensing and Ground Level Measurements**
Zohrab Samani, PE, PhD, Professor, Dept. of Civil Engineering, NMSU, Las Cruces and **Co-Authors:** Pooneh Pahlevani, Graduate Student, Dept. of Civil Engineering, NMSU
- 3:00-3:30 pm **Break**
- Moderator** Alex J. Webster, PhD, Assistant Professor, Department of Biology, UNM, Albuquerque, NM
- 3:30-4:00 pm **Opportunities and Challenges for High-Resolution Groundwater Monitoring Across NM with Satellite Observations**
Eric Lindsey, Assistant Professor, Department of Earth and Planetary Sciences, UNM, Albuquerque, NM
- 4:00-4:30 pm **Hydraulic Analyses of the Regional Aquifer below the Pajarito Plateau, Los Alamos, NM**
Dylan Boyle, Hydrogeologist/Environmental Modeler, Neptune and Company, Los Alamos, NM, **Co-Authors** Leslie Gains-Germain, Statistician and Lauren Foster, Manager and Hydrologist, Neptune and Company, Inc.
- 4:30-5:00 pm **The Beginnings and Early History of Albuquerque's Water Supply, 1880-1960**
John Shomaker, PhD, President, Senior Principal Hydrogeologist, John Shomaker & Associates, Inc., Albuquerque, NM
- 5:00-6:00 pm **Reception & Networking Sponsored by INTERA Inc.**

Thursday, July 11

- 7:30-8:25 am **Registration and Refreshments**
- 8:25-8:30 am **Summary of July 10 Presentations**
Jeremy Kuhn, Director-North American, Roscoe Moss/AGWT Board Member, Phoenix, AZ
- Moderator** John Shomaker, PhD, President, Senior Principal Hydrogeologist, John Shomaker & Associates, Inc., Albuquerque, NM
- 8:30-9:00 am **Irrigation District Perspective on 2024 TX v. NM Supreme Court Opinion**
Samantha R. Barncastle, Esq., Managing Attorney at Barncastle Law Firm, Las Cruces, NM
- 9:00-9:20 am **Steps Forward on LRG - Thoughts from New Mexico**
John Longworth, PE, Sr. Executive Engineer, Advisor to the State Engineer and the NMISC Director, Santa Fe, NM
- 9:20-9:50 am **Current USGS Contributions to Understanding New Mexico's Groundwater**
Michael Johnson, Deputy Director for Studies, USGS - NM Water Science Center, Albuquerque, NM
- 9:50-10:20 am **Aquifer Mapping at the NM Bureau of Geology: Past, Present and Future**
Laila Sturgis, Aquifer Mapping Program Manager, NM Bureau of Geology & Mineral Resources, Socorro, NM

- 10:20-10:50 am **Break**
- Moderator** Ethan Mamer, Hydrogeologist, Aquifer Mapping Program, NMBGMR, Socorro, NM
- 10:50-11:20 am **Updates to the Bernalillo County Groundwater Monitoring Program and Identifying Trends in the East Mountain Area of Bernalillo County**
Corbin Carsrud, PG, County Hydrogeologist, Bernalillo County, Albuquerque, NM
- 11:20-11:50 am **Removing Obstacles to ASR in New Mexico**
Adrian Oglesby, Director, Utton Transboundary Resources Center, UNM, Albuquerque, NM
- 11:50-12:20 pm **Advancements in Screen Hydraulics for Production and ASR Wells**
Kevin McGillicuddy, PG, Chief Hydrogeologist, Roscoe Moss Company, Los Angeles, CA
- 12:20-1:30 pm **Lunch (provided)**
- Moderator** Sara Chudnoff, PG, Executive Director, AGWT, PInetop, AZ
- 1:30-2:00 pm **Predicting Water Quality Issues with Geophysics and Geochemistry Prior to Supply Well Construction**
Chris Wolf, PG, Geochemist, Daniel B. Stephens & Associates, Inc., Albuquerque, NM
- 2:00-2:30 pm **Production Well Inner Liners - More Than Just Lipstick on a Pig**
Edd T. Schofield, Technical Sales Manager - Well Chemicals, Johnson Screens, Laguna Hills, CA
- 2:30-3:00 pm **Selective Extraction Approach to Optimize Treatment Solutions for Contaminated Groundwater Supplies**
Noah Heller, PG, CEO-President/Senior Hydrogeologist, BESST, Inc., San Rafael, CA, **Co-Author:** Adam Midkiff, Project Engineer, Layne (a Granite Company), Mesa, AZ
- 3:00-3:30 pm **De-Risking Groundwater Investments in the Age of PFAS**
Dan Haddock, PE, Director of Water Utility Services, Principal Engineer, INTERA Inc., Sacramento, CA, **Co-Authors:** Nathan Hatch, Hydrologist and Beronica LeeBrand, PG, Senior Geologist & Group Manager, INTERA Inc.
- 3:30-4:0 pm **PFAS Contamination of Wildlife at Holoman Lake: Record-High Blood and Tissue Levels and Implications for Human Health**
Jean-Luc Cartron, PhD, Senior Biologist, Daniel B. Stephens & Associates, Inc., Albuquerque, NM, **Co-Authors:** Christopher Witt, PhD, Professor, Jonathan Dunnum, PhD, Senior Collections Manager, Chauncey Gadek, PhD Candidate, Joseph Cook, PhD, Distinguished Professor and Andrew Johnson, Senior Collections Manager, Department of Biology, UNM, Albuquerque, NM
- 4:00-4:30 pm **Santa Fe County's Response to PFAS Contamination**
Camilla Bustamante, PhD, Santa Fe County Commissioner, District 3 and Gregory Shaffer, Santa Fe County Manager, Santa Fe, NM
- 4:30-5:00 pm **Using ITRC Guidance to Characterize Complex LNAPL Sites Using the Ultra-Violet Optical Image Profiler and Optimize In-Situ Remediation for Improved Performance Outcomes**
John Fontana, CPG, CWD, President & CEO, Vista GeoScience, Golden, CO
- 5:00 pm **Door Prize Awards**

Conference Exhibitors

Cotey Chemical

Daniel B. Stephens & Associates (a Geologic Company)

Dynotek

Drill Pipe Inc.

Halliburton - Baroid IDP

Hydro Resources

INTERA Inc.

Johnson Screens

KP Ventures Well Drilling & Pump

Preferred Pump

Neptune and Company

New Mexico Environment Dept.

Roscoe Moss Company

Vista GeoScience

Xylem, Goulds Water Technology

Registration Information

2024 New Mexico Groundwater Conference - Albuquerque, NM
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Register online at agwt.org/events

Registration Overview

General Registration

2 Day Registration	\$330.00
2 Day Full-Time Student	\$100.00
1 Day Registration (July 10 or 11)	\$175.00
1Day Full-Time Student (July 10 or 11)	\$ 50.00

Speaker Registration

Speaker (July 10)	\$ 0.00
Speaker (July 11)	\$ 0.00
Attend - Not Speaker (July 10)	\$100.00
Attend - Not Speaker (July 11)	\$100.00

Moderator Registration

2 Day Registration	\$280.00
1 Day Registration	\$140.00
Download of Presentations in PDF - attendees	\$ 30.00
Download of Presentations in PDF - non-attendees	\$100.00

New Mexico Water Well Workshop

NM GW Conf Attendee Discount Reg. (please register through NM Water Well Workshop event page)	\$125.00
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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