

NEW MEXICO GROUNDWATER CONFERENCE

An annual American Ground Water Trust program
 With assistance from the New Mexico Bureau of Geology and Mineral Resources
July 27-28, 2022 – at the State Bar of NM, 5121 Masthead NE, Albuquerque, NM 87199

Registration on-line - www.agwt.org/events

Sponsorship and exhibiting opportunities available!
 Call (800) 423-7748 or visit www.agwt.org/events for more information.



The American Ground Water Trust's first education program in New Mexico was in November 2004 when we held a two-day training workshop for science teachers on the basics of the nature and occurrence of groundwater. Since then, the AGWT has convened New

Mexico workshops on solutions to PFAS contamination, the benefits of ground source heating & cooling (heat pumps), and the importance of optimizing water well design and construction. For the last seven years, we have organized an annual groundwater issues conference in Albuquerque. Each of these conferences has focused on specific water resources issues from the perspectives of science, engineering, law, economics, planning, politics, and management strategy.

Some of the topics for the Conference:

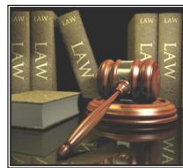
- Water quality and legacy contamination
- Groundwater and Tribal water settlements
- Regional & local groundwater investigations
- Social equity and justice in water projects
- Superfund sites in New Mexico
- Groundwater clean-up technology
- Proactive groundwater management
- The complexities of designing & constructing water wells

**INCLUDES
 TRIBUTE TO THE
 70+ YEARS OF DR.
 JOHN HAWLEY'S
 GROUNDWATER
 CAREER**

**DISCOUNTED
 REGISTRATION RATE
 FOR PERSONS WHO
 IDENTIFY AS NAVAJO,
 NATIVE AMERICAN,
 PUEBLO**

Continuing Education

Approved by State Bar of NM for Attorneys – 5.2 G
 Approved by Office of State Engineer for Water Well Drillers – 3 Hours
 Approved by NM Environment Department for Water and Wastewater Utility Operators – 13.5 Training Credits
 Certificate of Attendance available to other professionals



“Great value – very impressive selection of presenters”
“A very beneficial immersion in NM’s groundwater issues”
“One-stop-shop for expert opinion and update on the State’s water management challenges”



Join our 2022 Conference Sponsors:



Day One – Wednesday, July 27

7:30 – 8:30 REGISTRATION (Coffee, pastries, and network with exhibitors)

8:30 – 8:45
INTRODUCTION: GROUNDWATER RESOURCES ARE BECOMING SCARCER AND MORE VALUABLE
Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

8:45 – 9:20
GROUNDWATER INVESTIGATIONS TO SOLVE WATER SUPPLY PROBLEMS IN MAGDALENA, NM
Erwin Melis, PhD, PG, Senior Hydrogeologist, John Shomaker & Associates, Inc., Albuquerque, NM

9:20 – 9:55
HYDROGEOLOGY OF THE MIMBRES BASIN
Geoffrey Rawling, PhD, Senior Field Geologist, New Mexico Bureau of Geology & Mineral Resources, Albuquerque, NM

9:55 – 10:10 BREAK (network with exhibitors)

10:10 – 10:45
MANAGED AQUIFER RECHARGE IN NEW MEXICO
Christopher Wolf, PG, Hydrogeologist/Geochemist, and Amy Ewing, PG, principal Hydrogeologist, Daniel B Stephens & Associates, Inc., Albuquerque, NM

10:45 – 11:20
WELL DESIGN CONSIDERATIONS FOR ASR WELLS – LOOKING BEYOND THE CONVENTIONAL GUIDELINES
Kevin McGillicuddy, PG, Chief Hydrogeologist, Roscoe Moss Company, Los Angeles, CA

11:20 – 11:55
USING MICROGRAVITY GEOPHYSICAL METHODS IN ALBUQUERQUE BASIN AQUIFERS TO IDENTIFY VARIATIONS IN SPECIFIC YIELD, (used to calculate the volume of groundwater in storage)
Meghan Bell, Hydrologist, USGS New Mexico Water Science, Albuquerque, NM

11:55 – 12:30
No PowerPoint used
WATER SUPPLY ISSUES AND LEGISLATIVE PRIORITIES IN NEW MEXICO
Senator Elizabeth Stefanics, PhD, District 39, Chair of the Senate Conservation Committee and Vice-Chair of the Interim Water and Natural Resources Committee, New Mexico State Legislature, Santa Fe, NM

12:30 – 1:30 LUNCH (network with exhibitors)

1:30 – 2:05
Substitute presentation: PFAS AND GROUNDWATER
Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

2:05 – 2:40
OVERVIEW OF SUPERFUND SITES IN NEW MEXICO
Anthony McGlown, New Mexico Environment Department, Superfund Oversight Section, Santa Fe, NM (invited)

2:40 – 3:15
PRIVATE WELLS IN NEW MEXICO – WATER QUALITY ISSUES
Rose Galbraith, MPH, Epidemiology and Response Division, New Mexico Department of Health, Santa Fe, NM

3:15– 3:30 BREAK (network with exhibitors)

3:30 – 4:05

HEALTH DISPARITIES IN NEW MEXICO RESULTING FROM CONTAMINATED GROUNDWATER SUPPLY SOURCES IMPACTED BY LEGACY MINING

Johnnye Lewis, PhD, Director, Community Environmental Health Program, Department of Pharmaceutical Sciences, College of Pharmacy, UNM, Albuquerque, NM

4:05 – 4:40

THE IMPACT OF URANIUM MINING ON WATER SUPPLY IN NEW MEXICO AND THE NAVAJO NATION: THE CHEMISTRY OF CONTAMINATION AND THE FEASIBILITY OF REMEDIATION

José Manuel Cerrato, PhD, Superfund Research Program, Department of Civil, Construction & Environmental Engineering, UNM, Albuquerque, NM

4:40 – 5:00

TRIBUTE TO DR. JOHN HAWLEY, Emeritus Sr. Environmental Geologist, NM Bureau of Geology & Mineral Resources, in recognition of his enormous contribution over many decades to groundwater hydrology in New Mexico

Introduced by Sara Chudnoff, PG, Hydrogeologist, Pinetop, AZ

5:00 – 6:15

RECEPTION Sponsored by INTERA Inc.



Day Two – Thursday, July 28

7:30 – 8:30

REGISTRATION (Coffee, pastries, and network with exhibitors)

8:30 – 8:35

SUMMARY OF DAY ONE AND INTRODUCTION TO DAY TWO

Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

8:35 – 9:10

EVALUATION OF THE NEW MEXICO GROUNDWATER LEVEL MONITORING PROGRAM

Robert Pine, Hydrogeology Specialist, New Mexico Bureau of Geology & Mineral Resources, Socorro, NM

9:10 – 9:45

NEW MEXICO INTERSTATE STREAM COMMISSION ROTATIONAL FALLOWING PROGRAM TO CONSERVE GROUNDWATER IN THE LOWER RIO GRANDE

Erick Fox, Geospatial Analyst, INTERA Inc., Albuquerque, NM

9:45 – 10:20

CITIZEN SCIENCE PARTNERSHIPS IN AGRICULTURE FOR GROUNDWATER RESOURCE MANAGEMENT STRATEGIES ON NEW MEXICO'S EASTERN HIGH PLAINS

Kate Zeigler, PhD, CPG, Owner and Senior Geologist, Zeigler Geologic Consulting, LLC, Albuquerque, NM

10:20 – 10:35

BREAK (network with exhibitors)

10:35 – 11:10

CAVERNS CAUSED BY OILFIELD BRINE SOLUTION MINING OPERATIONS: OCD PROACTIVE MONITORING, CHARACTERIZATION, AND MITIGATION ACTIONS IN CARLSBAD

Jim Griswold, Special Projects Manager, Oil Conservation Division, NM Energy, Minerals and Natural Resources Department, Santa Fe, NM

11:10 – 11:45

WELL DRILLING CHALLENGES IN NEW MEXICO: MATCHING THE WELL DESIGN AND DRILLING METHOD TO GEOLOGICAL CONDITIONS WHILE ALSO NAVIGATING POLICY DIFFERENCES AMONG THE OSE OFFICES

Marvin Magee, PE, President, Maverick Drilling Inc, Mesilla Park, NM

11:45 – 12:20

NEW MEXICO HAS 160+ CONCENTRATED LIVESTOCK FEEDING OPERATIONS: WHAT ARE THE POTENTIAL ENVIRONMENTAL IMPACTS?

Marshall Worsham, PhD, Researcher, Mapping for Environmental Justice, Davis, CA

12:20 – 1:20

LUNCH

(network with exhibitors)

(Snacks available throughout the afternoon)

1:20– 1:55

No PowerPoint used

THE GROWING IMPORTANCE OF GROUNDWATER IN TRIBAL WATER SETTLEMENTS

Ann Berkley Rodgers, JD, Owner-attorney, Chestnut Law Offices, Albuquerque, NM

1:55 – 2:30

THE ROLE OF THE NAVAJO NATION DEPARTMENT OF WATER RESOURCES IN PROVIDING SAFE DEPENDABLE WATER SUPPLY

Jason John, Director, Navajo Department of Water Resources, Fort Defiance, AZ

2:30 – 3:05

RESILIENCE FROM BELOW: RETHINKING PROACTIVE GROUNDWATER MANAGEMENT FOR AN UNCERTAIN FUTURE

Maurice Hall, PhD, PE, Vice President, Water, Environmental Defense Fund, Santa Fe, NM

3:05 – 3:40

CONSIDERATION OF SOCIAL EQUITY AND JUSTICE IN EXECUTION OF WATER AND ENERGY PROJECTS

Thushara Gunda, PhD, Engineer, Sandia National Laboratories, Albuquerque, NM

3:40 – 4:15

NEW MEXICO WATER DIALOGUE - NEW MEXICO WATER SUPPLY PRIORITIES

Aaron Chavez, President, New Mexico Water Dialogue, San Juan Water Commission, Farmington, NM

4:15 – 4:20

WRAP-UP AND FINAL Q & A

Door prizes!!!!!! (must be present to win!)

4:20 ADJOURN

