



TEXAS GROUNDWATER CONFERENCE



American Ground Water Trust Annual Texas Groundwater Conference

“Everything aquifers and groundwater management”

Austin Southpark Hotel, 4140 Governor's Row, Austin, TX 78744

Wednesday and Thursday, June 1-2, 2022

An American Ground Water Trust program (Our 29th Texas groundwater event since 2009)

24+ diverse and interesting presentations:

LEGAL, POLICY, MANAGEMENT, SCIENTIFIC, ENGINEERING AND TECHNICAL ISSUES ABOUT THE STATE'S AQUIFERS

Continuing Education

Applicable for **Texas Professional Geoscientists**

Approved for **TX Water Utility Operators** – Course #0548, 12.5 Credit Hours

Approved for **TX Water Well Drillers/Pump Installers** – Course #25896, 15 CE Hours

Approved for **TX Attorneys** – Course #174157136, Sponsor #13854, 5.75 MCLE Hours

Certificates available for all attendees upon completion of CE Form



CONFERENCE SPONSORS:



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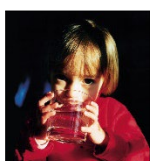


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The objective of American Ground Water Trust conference programs is to showcase topical and/or controversial groundwater issues and to facilitate information sharing among landowners, groundwater end-users, regulators, management agencies, scientists,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



7:30 – 8:30 REGISTRATION Wednesday, June 1

8:30 – 8:35 **INTRODUCTION – BACKGROUND TO THE SELECTION OF CONFERENCE PRESENTATIONS**
Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

8:35 – 9:05 **UPDATE ON GROUNDWATER ISSUES AND PRIORITIES FOR THE TEXAS WATER DEVELOPMENT BOARD**
John Dupnik, PG, Deputy Executive Administrator, Water Science and Conservation, Texas Water Development Board, Austin, TX

9:05 – 9:35 **SUMMARY OF THE U.S. GEOLOGICAL SURVEY GROUNDWATER PROGRAM IN TEXAS**
Gregory Stanton, Branch Chief for the Central Texas Program Oklahoma-Texas Water Science Center, Austin, TX

9:35 – 10:20 **HOW TO AVOID SANTA'S NAUGHTY LIST: ETHICAL GROUND RULES FOR PROFESSIONAL GEOSCIENTISTS WORKING IN TEXAS** (Applicable for 1 hr PG CE Ethics credit)
Becky Johnson, PG, TBPG Chair, Professional Geoscientist Texas Christian University, Austin, TX

10:20 – 10:40 BREAK

AQUIFER MANAGEMENT CHALLENGES RESULTING FROM BRINE CONTAMINATION FROM LEAKING ABANDONED (ZOMBIE) OIL & GAS WELLS

10:40 – 11:10 **OIL & GAS WELL BRINE PROBLEMS FOR THE MIDDLE PECOS GROUNDWATER CONSERVATION DISTRICT**
Vince Clause, Hydrogeologist, Allan R Standen, LLC, Austin, TX

11:10 – 11:40 **TECHNICAL OPTIONS FOR SEALING WELLS TO PREVENT OIL, GAS AND BRINE MIGRATION.**
William Burch, CEO, Hamilton Hydrogen, Houston, TX

11:40 – 12:10 **LEGAL/REGULATORY/FINANCIAL/POLITICAL ASPECTS OF ALLOCATING RESPONSIBILITY AND FUNDS TO PREVENT ONGOING AQUIFER CONTAMINATION**
Sarah Stogner, JD, Attorney, Stogner Legal, Midland, TX

12:10 – 1:10 LUNCH (provided)

TRANSBOUNDARY AQUIFERS BETWEEN MEXICO AND THE US

1:10 – 1:40 **CURRENT CONDITIONS AND ASSESSMENTS OF TRANSBOUNDARY AQUIFERS BETWEEN MEXICO AND THE US**
Rosario Sanchez, PhD, Senior Research Scientist, Texas Water Resources Institute, Texas A&M University, Director, Permanent Forum of Binational Waters, College Station, TX

1:40 – 2:10 **TRANSBOUNDARY AQUIFER ASSESSMENT PROGRAM: OVERVIEW OF THE U.S. GEOLOGICAL SURVEY ASSESSMENTS OF THE MESILLA BASIN/CONEJOS-MÉDANOS AND HUECO BOLSON AQUIFER SYSTEMS**
Andrew Teeple, Team Lead, Geophysics and Subsurface Analysis Unit, U.S. Geological Survey, Oklahoma-Texas Water Science Center, Austin, TX

2:10 – 2:40 **THE GROUNDWATER RESOURCES POTENTIAL OF THE MAVERICK BASIN AQUIFER IN SOUTHWEST TEXAS AND NORTHEAST MEXICO**
James Harcourt, PG, Manager, Oil and Gas Division, Railroad Commission of Texas, Austin, TX

2:40 – 3:10 **INVESTIGATING MANAGEMENT OF TRANSBOUNDARY WATERS THROUGH COOPERATION: A SERIOUS GAMES CASE STUDY OF THE HUECO BOLSON AQUIFER IN CHIHUAHUA, MEXICO AND TEXAS, UNITED STATES**
Alex Mayer, PhD. Professor of Civil Engineering, Center for Environmental Research Management, University of Texas at El Paso, El Paso, TX

3:10 – 3:30 BREAK

3:30 – 5:00 **PANEL – LEGAL PERSPECTIVES ON KEY GROUNDWATER ISSUES**

Moderator: Ed McCarthy, JD, Attorney, McCarthy & McCarthy, Austin, TX

Discussion topics:

1. Litigation update – review of recent and pending litigation
2. Produced water issues including ownership, permitting, mitigation of impacts of injection wells and related seismic events
3. Title to ground water as it relates to permitting issues.
4. Cotenancy issues relating to joint ownership of land and/or severed ground water to state
5. Groundwater permitting and the concept of “dedication to a beneficial use.”

Attorney panel:

Bill Dugat, JD, Partner, Bickerstaff Heath Delgado Acosta LLP, Austin, TX

Mike Gershon, JD, Water Practice Group – Chair, Lloyd Gosselink Rochelle & Townsend, PC, Austin, TX

Russ Johnson, JD, Partner, McGinnis Lochridge, Austin, TX

Paul Terrill, JD, Terrill & Waldrop, Austin, TX

5:00 – 6:30 RECEPTION (Cash bar)



7:30 – 8:30 REGISTRATION Thursday, June 2

8:30 – 8:35 **SUMMARY OF JUNE 1 PRESENTATIONS**

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

GROUNDWATER INVESTIGATIONS IN TEXAS

8:35 – 9:05 **HOW SEISMIC DATA CAN INFORM OUR UNDERSTANDING OF BRACKISH AQUIFERS IN TEXAS**

Cody Draper, Geologist, INTERA Inc., Austin, TX.

9:05 – 9:35 **CONCEPTUAL MODEL OF GROUNDWATER FLOW IN THE PECOS VALLEY AND EDWARDS-TRINITY (PLATEAU) REGIONAL AQUIFERS**

Ki Young Cha, PhD, Hydrologist, Texas Water Development Board, Austin, TX

9:35 – 10:05 **INCORPORATING AN UNCERTAINTY BASED APPROACH FOR SIMULATING LAND SUBSIDENCE AND GROUNDWATER FLOW IN THE UPDATED NORTHERN GULF COAST GROUNDWATER AVAILABILITY MODEL**

John Ellis, Supervisory Hydrologist, US Geological Survey, Oklahoma-Texas Water Science Center, Austin, TX

10:05 – 10:35 **GROUNDWATER WITHDRAWALS ASSOCIATED WITH OIL AND GAS PRODUCTION FROM WATER SUPPLY AQUIFERS IN TEXAS**

Dorina Murgulet, PhD, Director of Water Supply Studies, TX A&M University, Corpus Christi, TX

10:35 – 10:50 BREAK

10:50 – 12:20 **PANEL - MANAGEMENT STRATEGIES FOR DESIRED FUTURE CONDITIONS**

Panel Moderator: Scott Honeyfield, PE, Principal, Parkhill, Amarillo, TX

PANHANDLE GROUNDWATER CONSERVATION DISTRICT’S 50/50 RULE REVIEW – PAST IMPLEMENTATION AND WHERE WE GO FROM HERE

Britney Britten, General Manager, Panhandle Groundwater Conservation District, White Deer, TX

THE ROLE OF GROUNDWATER MODELING IN ESTABLISHING WATER DISTRICT THRESHOLDS FOR “DESIRED FUTURE CONDITIONS”

Wade Oliver, PG, Senior Hydrogeologist, Manager of Houston Operations, INTERA Inc., Sugar Land, TX

STATUS OF DESIRED FUTURE CONDITIONS IN NORTH TEXAS

Drew Satterwhite, PE, General Manger, North Texas and Red River Groundwater Conservation Districts, Denison, TX

JOINT PLANNING IN GROUNDWATER MANAGEMENT AREAS

Natalie Ballew, PG, Manager, Groundwater Technical Assistance Department, Groundwater Division, Water Science & Conservation, Texas Water Development Board, Austin, TX

12:20 – 1:20 LUNCH (provided)

HOW NGO’S IMPACT GROUNDWATER SOURCE PROTECTION AND SUSTAINABLE USE POLICIES

1:20 - 1:50 **HOW MANY SPRINGS IN TEXAS HAVE GONE DRY SINCE 1980? WHY AND WHERE AND SHOULD WE CARE?**
Robert Mace, PhD, PG, Executive Director and Chief Water Policy Officer, Meadows Center, Texas State University, San Marcos, TX

1:50 – 2:20 **THE WORK OF THE GREATER EDWARDS AQUIFER ALLIANCE IN PROMOTING WATER MANAGEMENT POLICIES FOR SOURCE PROTECTION AND SUSTAINABILITY**
Annalisa Peace, Executive Director, Greater Edwards Aquifer Alliance, San Antonio, TX

2:20 – 2:50 **HILL COUNTRY ALLIANCE PROGRAMS PROMOTING MANAGEMENT POLICIES FOR SOURCE PROTECTION AND SUSTAINABILITY**
Katherine Romans, Executive Director, Hill Country Alliance, Austin, TX

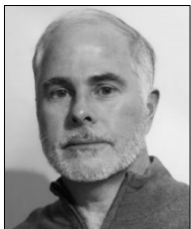
2:50 – 3:20 **THE ENVIRONMENTAL DEFENSE FUND TEXAS WATER PROGRAM: BUILDING RESILIENT GROUNDWATER SUPPLIES THROUGH SCIENCE AND COLLABORATION**
Vanessa Puig-Williams, JD, Director, Texas Water, Environmental Defense Fund, Austin, TX

3:20 – 3:30 **WRAP-UP OF THE 2022 CONFERENCE**
Introduction of Closing Keynote Presenter

3:30 – 4:00 **KEYNOTE PRESENTATION**

WATER MARKETS: ATTITUDES, RESEARCH & POTENTIAL

Todd H. Votteler, PhD, President, Collaborative Water Resolution LLC, Austin, TX



Dr. Votteler is a specialist in environmental mediation, water and environmental problem-solving and executive recruiting for water and environmental positions. He is the Editor-in-Chief of the Texas Water Journal and Texas+Water. Votteler is a Fellow of the Meadows Center for Water and the Environment at Texas State University. Previously, Votteler was Executive Manager of Science, Intergovernmental Relations, and Policy at the Guadalupe–Blanco River Authority. He also served as the Chairman of the Guadalupe Basin Coalition. Votteler was appointed as the Federal Special Master for the Endangered Species Act (ESA) litigation, *Sierra Club v. San Antonio*. Prior to that, he assisted Federal Court Monitor during the landmark ESA litigation over the Edwards Aquifer. Todd has a BS in Natural Resources from The University of the South, an MS in Natural Resources from The University of Michigan, and a PhD in Environmental Geography from Texas State University.

4:00 END OF CONFERENCE, DOOR PRIZE AWARDS

