



# TEXAS AQUIFER CONFERENCE



American Ground Water Trust Annual Texas Groundwater Conference

## “Everything aquifers and groundwater management”

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

Wednesday May 3<sup>rd</sup> & Thursday May 4<sup>th</sup> 2017  
Austin, Texas



Co-Sponsored by:  
Texas Water Development Board



Legal, policy, management, scientific, engineering and technical issues



### Continuing Education

The AGWT will issue certificates of attendance  
Approved – TX Board of Professional Geologists

Approved – State Bar of TX – 3.0 CLE Hours (Sponsor #13854, Course #928000057)



### Conference Sponsors



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Preferred Pump



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.

7:45 REGISTRATION

Wednesday May 3

SESSION 1: 8:30am – 10:15am

8:30 – 8:45

INTRODUCTION – PRINCIPAL THEMES OF THE CONFERENCE

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

8:45 – 9:15

REPORT ON THE 2016 TEXAS WATER ROADMAP FORUM

Rudolph Rosen, PhD, Director, Institute for Water Resources Science and Technology, Texas A&M University, San Antonio, TX

9:15 – 9:45

GROUNDWATER USE IN TEXAS IN THE NEXT DECADE: PRIORITIES, CHALLENGES AND SOLUTIONS

Robert Mace, PhD, Deputy Executive Administrator, Texas Water Development Board, Austin, TX

9:45 – 10:15

APPLYING WEB-BASED TOOLS TO SIMPLIFY DATA MANAGEMENT, ANALYSIS, AND COMMUNICATION FOR GROUNDWATER MANAGEMENT

Dave Colvin, PG, PMP, (Groundwater Group Leader) and Carolyn Nobel, PhD, PE (Technology Group Leader), Leonard Rice Engineers, Inc., Denver, CO

10:15 – 10:40 BREAK

SESSION 2: 10:40am – 11:40am

**CHALLENGES IN DEVELOPING PIPELINE INFRASTRUCTURE NEEDS FOR EFFICIENT MANAGEMENT OF TEXAS GROUNDWATER AND SURFACE WATER RESOURCES**

Moderator: Marc A. Rodriguez, Government Relations Consultant, Austin, TX

POTENTIAL ECONOMIC IMPACT OF DEVELOPING A PIPELINE INFRASTRUCTURE

Jon Hockenyos, President, TXP (Economic analysis and public policy consulting), Austin, TX

PIPELINES: A 21<sup>ST</sup> CENTURY SOLUTION TO TEXAS WATER NEEDS

Joseph Beal, P.E., Beal Consulting Inc., Bastrop, TX

MOVING DESALINATED GROUNDWATER TO MARKET

Michael J. Irlbeck, Business Development Director, EPCOR Water, Austin, TX

11:40am – 12:10

Invited keynote Speaker: **State Senator**

12:10 – 1:20 LUNCH (provided)

SESSION 3: 1:20pm – 2:50pm

**GROUNDWATER LAW AND LEGAL ISSUES– UPDATE ON SELECTED CASES AND COURT DECISIONS IMPACTING GROUNDWATER MANAGEMENT IN TEXAS**

Moderator: Edmond McCarthy Jr., Attorney, McCarthy & McCarthy., Austin, TX

David Lein, Attorney, Graves Dougherty Hearon & Moody, Austin, TX

Greg Ellis, Attorney, GM Ellis Law Firm PC, League City, TX

Russell Johnson, Partner, McGinnis Lochridge, Austin TX

2:50 – 3:10 BREAK

SESSION 4: 3:10pm – 4:40pm

**TEXAS OIL & GAS: MEETING THE WATER NEEDS FOR THE INDUSTRY WHILE SHARING THE WATER WITH OTHER PARTS OF THE STATE ECONOMY AND ENVIRONMENT**

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

GEOPHYSICS TECHNIQUES TO FIND GROUNDWATER FOR TEXAS OIL & GAS OPERATIONS

Kevin Rigsby, Manager of Geology and Geophysics, Hydro Resources, Inc., Tulsa, OK

WATER SOURCING MANAGEMENT AND DISPOSAL FOR OIL & GAS: MEETING THE CHALLENGES, DELAWARE BASIN, WINKLER COUNTY, TX

Jeff Anderson, Technical Director - Industrial Water, Leonard Rice Engineers, Inc., Denver, CO

TEXAS OIL & GAS INDUSTRY WATER MANAGEMENT STRATEGIES

John Tintera, PG, Manager, Sebree & Tintera, LLC, Austin, TX

5:00 RECEPTION (cash bar)



7:30 – 8:30 REGISTRATION **Thursday May 4**

8:30am – 8:40am SUMMARY OF DAY ONE – INTRODUCTION TO TOPICS OF DAY TWO  
Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

SESSION 5: 8:40am – 10:10am

**TECHNOLOGY AND TECHNIQUES TO ASSESS, DEVELOP AND MAXIMIZE THE WATER SUPPLY  
POTENTIAL FROM BRACKISH AQUIFERS IN TEXAS**

Moderator: Van Kelley, PG, Sr. Vice President, INTERA, Inc., Austin, TX

TRENDS IN TECHNOLOGY AND TECHNIQUES TO SECURE A RELIABLE BRACKISH GROUNDWATER PROJECT

Steven Young, PhD, PE, PG, Principal Geoscientist, INTERA, Austin, TX

TRENDS IN TREATMENT TECHNOLOGY FOR BRACKISH GROUNDWATER DEVELOPMENT

Justin Sutherland, PhD, PE, Principal Technologist, Carollo Engineers, Austin, TX

TRENDS IN DISPOSAL/REUSE OF CONCENTRATE FOR BRACKISH GROUNDWATER DEVELOPMENT

Bill Norris, PE, Principal, NorrisLeal, LLC, Harlingen, TX

10:10– 10:30 BREAK

SESSION 6: 10:30am 12:00pm

**TECHNICAL AND REGULATORY ASPECTS OF ENHANCED AQUIFER RECHARGE  
USING SURFACE AND NEAR-SURFACE FACILITIES**

Moderator: T. Neil Blandford, PG, Senior Vice President, Daniel B. Stephens & Associates, Inc., Albuquerque, NM

DISPELLING MYTHS ABOUT RECHARGE VIA SPREADING BASINS, ARROYOS ETC.

James A. Kelsey, P.G., President, Senior Geologist, Daniel B. Stephens & Associates, Inc., Albuquerque, NM

ENHANCED GROUNDWATER RECHARGE TO THE EDWARDS AQUIFER CONSIDERING WATER QUANTITY AND  
QUALITY – THE ANTIOCH CAVE PROJECT

Brian A. Smith, Ph.D., PG, Principal Hydrogeologist, Barton Springs/Edwards Aquifer Cons. District, Austin, TX

USE OF SPREADING BASINS FOR MANAGED AQUIFER RECHARGE – THE EL PASO EXPERIENCE

Scott Reinert, PE, PG, Water Resources Manager, El Paso, TX

11:45 – 1:00 LUNCH (provided)

SESSION 7: 1:00pm – 2:30pm

**TEXAS AQUIFER STORAGE RECOVERY PROJECTS**

Moderator: Fred M. Blumberg, Project Manager, ARCADIS-U.S. Inc., Austin, TX

HYDROGEOLOGIC CRITERIA FOR SELECTION OF AN ASR WELLFIELD LOCATION.

Neil Deeds, PhD, PE, Vice President, Principal Water Resources Engineer, INTERA, Inc., Austin, TX

ASR WELL DESIGN AND SELECTION OF WELL COMPONENTS BASED ON HYDROGEOLOGY

Tom Morris, Hydrologist, ASR Systems, LLC, Las Vegas, NV

DRILLING TECHNIQUES IMPORTANT FOR ASR WELLS: WITH EMPHASIS ON TEXAS

Fred Rothauge, Business Development Manager, Hydro Resources, Fort Lupton, CO

OPERATION AND PERFORMANCE OF THE TWIN OAKS ASR FACILITY WELLS

Roberto Macias, Manager of Production & Treatment Operations, San Antonio Water System, San Antonio, TX

2:30pm – 2:45 BREAK

Session 8 2:45 – 4:15

**TECHNICAL ISSUES & CHALLENGES FOR WEST TEXAS (TWDB REGION 1):  
RESOURCEFUL AND DIVERSIFIED SOLUTIONS**

Moderator: Scott Honeyfield, Principal, Parkhill Smith & Cooper, Amarillo, TX

BUILDING SUSTAINABLE WATER SUPPLY PORTFOLIOS ON THE LLANO ESTACADO

Aubrey Spear, PE, Director of Water Utilities, Lubbock, TX

OVERVIEW OF THE EL PASO WATER UTILITIES 50 YEAR WATER PLAN

Scott Reinert, PE, PG, Water Resources Manager, El Paso, TX

BORGER NORTHWEST WELL FIELD, FINDING NEW WATER TO SUPPORT MAJOR INDUSTRIAL INVESTMENT

Scott Honeyfield, PE, Principal, Parkhill Smith & Cooper, Amarillo, TX

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# Registration

May 3 and May 4, 2017

**YOU MUST CHECK ONE: →**

May 3 AND May 4

May 3 OR May 4

 or 

- General Registration – April 4, 2017 and later
- AGWT Member/Gov't Employee – April 4, 2017 & later
- PDF of ppt Presentations (post-event) ATTENDEES
- PDF of ppt Presentations (post-event) NON ATTENDEE
- Exhibit Table (personal registration also required)

\$420

\$225

\$395

\$200

\$30

\$100

\$300

*Includes: access to exhibits, reception, breaks and lunch(s)*

**Total for all checked boxes \$.....**

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**MAIL TO:**  
American Ground Water Trust  
50 Pleasant Street, Suite 2  
Concord, NH 03301-4073  
**FAX:** (603) 228-6557  
**TEL:** (603) 228-5444  
**? QUESTIONS:**  
(800) 423-7748  
9:00-4:00pm (EST)

The American Ground Water Trust is a non-profit 501(c)(3) membership organization dedicated to providing accurate information about water resources, groundwater and wells to citizens, communities and decision makers. Contributions are tax deductible to the extent permitted by law.