



UIC CONFERENCE | 2019

February 24-27, 2019
Fort Worth, Texas
Sheraton Fort Worth Hotel



AGENDA

Conference Partner



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and Drinking Water

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Sunday, February 24, 2019

3:00 – 5:30	Registration (Magnolia Foyer)
6:00 – 8:00	Welcome Reception – Hotel (Cypress Ballroom)

Monday, February 25, 2019

7:30 -5:00	Registration (Magnolia Foyer)	
7:30 – 8:30	Breakfast Buffet (Cypress Ballroom)	
8:30-10:00	Opening General Session (Magnolia 1-3)	
	<ul style="list-style-type: none"> • Dan Yates, Associate Executive Director, GWPC – Conference Overview • Mike Paque, Executive Director, GWPC – Welcome • Adam Peltz, Attorney, Environmental Defense Fund – “How Oil and Gas States Protected Land & Water in 2018” • Charles Maguire, U.S. EPA, Region 6 • Anita Thompkins, U.S. EPA, Office of Groundwater & Drinking Water 	
10:00 – 10:30	Morning Break (Magnolia Foyer)	
10:30-12:00	Regional Induced Seismicity Collaborative: Trends in Seismicity (Magnolia 1-3)	Class III UIC Forum & Discussion (Magnolia 4-6)
	<p>Moderator: Michael Young, Bureau of Economic Geology, University of Texas</p> <p><i>“Lithospheric Structure and Seismicity Tendency of the Greater Permian Basin”</i></p> <p>Dino Huang, Ph.d., University of Texas, BEG</p> <p>(Continued)</p>	<p>Moderator: Mary Musick, GWPC</p> <p><i>“Review of Restoration and Stability Phases of In-Situ Uranium Mining in Texas 2009-2015, with Case Histories”</i></p> <p>Fred Duffy, Texas Commission on Environmental Quality</p> <p>(Continued)</p>

	<p><i>“Fluid Management Practices and Relationships to Seismicity in Geological Provinces of the Mid-Continent”</i> Kyle Murray, Ph.D., University of Oklahoma</p> <p><i>“Overview of the History and Response to Induced Seismicity in Arkansas with Examples from Previous Case Studies”</i> Scott Ausbrooks, Arkansas Geological Survey</p> <p><i>“Kansas Seismic Monitoring and Responses: An Update”</i> Rex Buchanan, Kansas Geological Survey</p> <p>Panel Discussion: “Groundwater Closure Requirements for Uranium Mining”</p> <p>Panelists:</p> <ul style="list-style-type: none"> • Fred Duffy, TCEQ • Lily Barkou, Wyoming Department of Environmental Quality, Water Quality Division • Amanda Jones, Nebraska Department of Environmental Quality <p>Discussion</p> <ul style="list-style-type: none"> • Updates from states and EPA DI on issues/solutions for Class III uranium mining facility closures and abandonment
<p>12:00-1:30</p>	<p>Lunch on your own</p>
<p>1:30 - 3:00</p> <p>Regulatory & Industry Strategies to Mitigate Induced Seismicity (Magnolia 1-3)</p> <p>Moderator: Michael Young, Bureau of Economic Geology, University of Texas</p> <p><i>“Operational Mitigation Strategies for Hydraulic Fracture Induced Seismicity”</i> Shawn Maxwell, Newfield</p> <p><i>“Operational Real-Time Induced Seismicity Risk Management”</i> Sepideh Karimi, Nanometrics – Seismic Monitoring Services</p> <p><i>“Updates on Seismic Mitigation Strategies”</i> Charles Lord, Oklahoma Corporation Commission</p>	<p>Aquifer Recharge (Magnolia 4-6)</p> <p>Moderator: Steve Musick, GWPC Staff</p> <p><i>“Improving Aquifer Storage and Recovery Well Performance Through Effective Cycle Testing”</i> Doug Laymon, P.G. , Collier Consulting</p> <p><i>Historic Analysis of ASR Operations in the US as of 2013</i> Chi Ho Sham, Ph.D., Eastern Research Group</p> <p>Discussion</p> <ul style="list-style-type: none"> • Updates from states on ASR/MAR regulatory programs
<p>3:00 – 3:30</p>	<p>Afternoon Break (Magnolia Foyer)</p>

3:30 – 5:00

Class II & VI UIC Forum & Discussion (Magnolia 1-3)

Moderator: Mike Nickolaus, GWPC

“Challenges Facing Class II Disposal Well Operations in the Appalachian Basin”

Tom Tomastik, ALL Consulting

“Implications for Class VI and Class II UIC Wells Based on CarbonSAFE Pre-Feasibility Projects”

Joel Sminchak, Batelle

“Update on CO2 Project”

Leslie Savage, Railroad Commission of Texas

Class V UIC Forum & Discussion (Magnolia 4-6)

Moderator: Lorrie Council, TCEQ

(State and EPA Only)

“State/EPA Dialogue – Comprehensive State Program Evaluations for Class V Programs”

Topics of Discussion:

- What should be included in an EPA Comprehensive State Program Evaluation for Class V?
- What should be considered for biosolids disposal by injection, taking into account the EPA Office of Inspector General Report 19-P-0002?
- How are States/DI programs notified of disposal of waste waters to groundwater under the Clean Water Act and how are discharges being assess for UIC requirements?

6:00 – 8:00

Networking Dinner | River Ranch Stockyards (Event Center)

**Casual Attire, Transportation Provided, Buses will load in the back of the hotel and will begin to depart at 5:30 p.m., with a second departure at approximately 6 p.m. Following the dinner, buses will begin the first departure back to the hotel at approximately 7:30 p.m.*

Join us for dinner, drinks and networking at the River Ranch Stockyards. Established in 1991 by Fort Worth natives Steve and Phillip Murrin, River Ranch Stockyards is reminiscent of the rustic retreat that greeted 1880’s cattle drovers as “the last stop” before moving herds north along the Chisholm Trail.

The dinner, held in the event center’s Old Town Room, will allow guests to step back in time to old Fort Worth – the chapel, saloon, mercantile, and the town jail.





Tuesday, February 26, 2019

7:30 – 5:00	Registration (Magnolia Foyer)		
7:30 – 8:30	Breakfast Buffet (Cypress Ballroom)		
8:30-10:00	State/EPA Forum (Oak 1-2)	Industry Forum (Magnolia 4-6)	
	<p><i>(State regulatory and EPA attendance only)</i></p> <p>Discussion Topics</p> <ul style="list-style-type: none"> • Comprehensive Program Evaluations • UIC Training Modules • Updates to Primacy Process & Website • Permit Backlog • Program Revisions 	<p>Moderator: Lloyd Hetrick</p> <p>Discussion Topics</p> <p><i>“Produced Water Management Options & Oklahoma Updates”</i> Rick McCurdy, Chesapeake Energy & Jesse Sandlin, Devon Energy</p> <p><i>“Well to Well Interference”</i> Lloyd Hetrick</p> <p><i>“HF Related Seismicity & Operational Mitigations”</i> Shawn Maxwell, Newfield & Lloyd Hetrick</p>	
10:00 – 10:30	Break		
10:30 – 12:00	Produced Water: Research (Magnolia 1-3)	Class I UIC Forum & Discussion (Magnolia 4-6)	UIC Data Application Review & Testing (Oak 3)
	<p>Moderator: Michael Dunkel, Jacobs</p> <p><i>“Chemical Composition of Produced and Flowback Water Collected from Different Hydraulic Fracturing Sites and Wells”</i> Nurhan Dunford, Ph.D., Oklahoma State University</p> <p><i>“Produced Water in Southern Colorado: Using Existing Research to Find the Best Path Forward”</i> Michael Ford, Economist & Produced Water Management, Individual Research Specialist</p>	<p>Moderator: Talib Syed, Consulting Petroleum Engineer</p> <p><i>“Geochemical Evaluation for Scale Reduction of Coal Combustion Residuals Leachate in Class I UIC”</i> Stephanie Hill, SCS Engineers</p> <p><i>“Advancing Class I Injection in a Time of Changing Pressures”</i> Bob Van Voorhees, Underground Injection Technology Council</p>	<p>You are invited to participate in hands-on testing of the new UIC Data Application and ask questions of the US EPA project staff.</p> <p>UIC programs will be using the new Application for 7520 and inventory reporting as soon as April 2019.</p>

	<p><i>"The Waste Fluid Production Rates from Unconventional Oil & Gas Wells and Implications for Disposal Capacity and Reuse"</i> Joseph J. Lee, Jr., P.G., GWPC Staff</p>	
12:00-1:30	Lunch on your own	
1:30 – 3:00	<p>Produced Water: Case Studies and Innovation (Magnolia 1-3)</p> <p>Moderator: Michael Dunkel, Jacobs</p> <p><i>"Permian Water Outlook: Challenges & Opportunities – A B3/Drillinginfo Multi-Client Study"</i> Robert G. Bruant, Jr., Ph.D., B3</p> <p><i>"GWPC Produced Water Study Update"</i></p> <p><i>Panel: Produced Water Reuse Case Studies</i></p> <ul style="list-style-type: none"> • Lloyd Hetrick • Erik Hansen, Shell 	<p>Managing Regulatory Data (Magnolia 4-6)</p> <p>Moderators: Mark Layne & Paul Jehn, GWPC</p> <p><i>"Preview of EPA's New UIC Data Application"</i> Colin Dyroff, U.S. EPA</p> <p>Discussion & Updates:</p> <ul style="list-style-type: none"> • Update of EPA/UIC State Data Submittals • RBDMS EReporting Initiatives • Bradenhead Test Data Management
3:00 – 3:30	Afternoon Break (Magnolia Foyer)	
3:30 – 5:00	<p>Closing General Session: CWA Discharges to Groundwater via Underground Injection (Magnolia 1-3)</p> <p><i>"Groundwater Regulation: Where Various Regulations Intersect"</i> Shellie Chard, Oklahoma DEQ</p> <p><i>"Potential for Class I Issues"</i> Bob Van Voorhees, Underground Injection Technology Council</p> <p><i>"Class II Perspective"</i> Talib Syed, Consulting Petroleum Engineer</p>	

Wednesday, February 27, 2019

7:30 -8:30	Registration (Magnolia Foyer)	
7:30 – 8:30	Continental Breakfast (Cypress I Ballroom)	
8:30-10:00	Injection Well Seminar: UIC Operator & Regulatory Focused Training (Magnolia 4 Ballroom)	Reviewing and Critiquing Environmental Documents Workshop (Magnolia 1-2)
	<p>Instructor: Ken Cooper, Petrotek</p> <p>A practical oriented UIC training course that focuses on conceptual understanding of how UIC well systems function with information on monitoring, maintenance, and regulation. This one-day course covers concepts related to UIC well operations, construction/testing and regulations and breaks them down to explain how they inter-relate and function together. The course is designed for operators and regulators of all experience levels with a focus on introductory and intermediate level knowledge. If you are looking to train new staff or brush up with some continuing education, this course is just for you.</p> <p><u>Topics Covered:</u></p> <ul style="list-style-type: none"> • Introduction to Underground Injection Control and Injection Wells • How and Why Injection Wells Work • Regulation of Injection Wells • Basics of Well Components and Installation • Operating with Understanding • Compliance and Operational Issues • Mechanical Integrity and Testing • Reservoir Testing <p style="text-align: center;">Sponsored By:  </p>	<p>Instructor, John Veil, Veil Environmental</p> <p>People who work in the environmental field are often asked to review reports, regulatory proposals, and other documents. In some situations, the documents being reviewed have little potential impact on the person or organization doing the review. But in other situations, the documents may pose a threat or have a significant impact on the reviewer. It is very important to conduct an orderly and careful review to ensure that the author of the document did a reasonable job. In this 90-minute workshop, instructor John Veil draws on more than 27 years of experience reviewing EPA and state proposed regulations and reviewing dozens of reports and other documents to share some guidelines on a sound approach to conducting reviews. The workshop discusses the four main elements for conducting a careful review. Those elements include: a) choosing appropriate data sources, b) making proper assumptions, c) conducting suitable analyses, and d) presenting results and conclusions that are justifiable and fair based on the material contained within the document. The workshop provides examples of how these play an important role in doing good research and setting good environmental policy.</p>
10:00 – 10:30	Break (Magnolia Foyer)	
10:30-1:00	Injection Well Seminar (Continued)	
1:00	Adjourn	

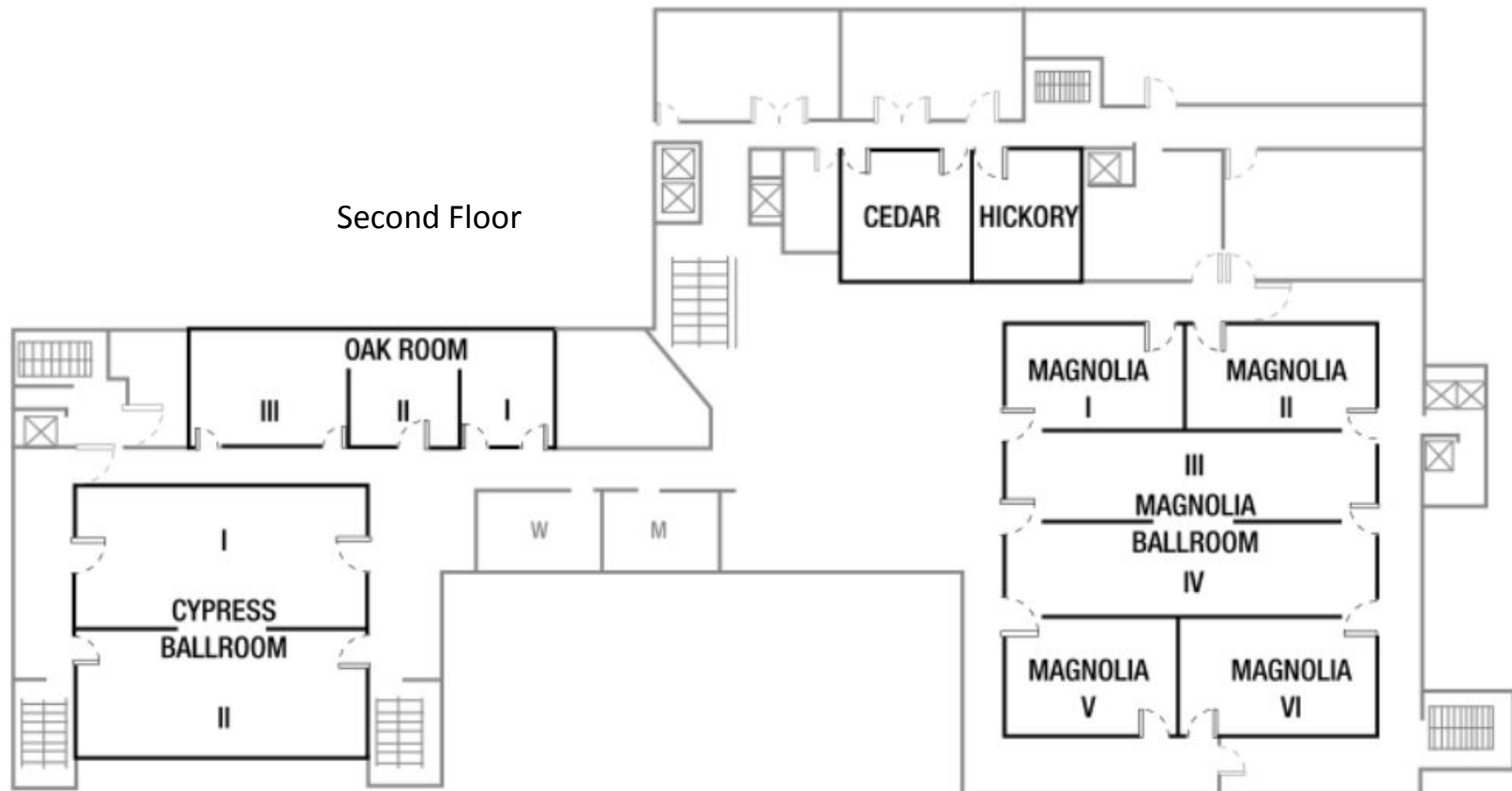
Sheraton Downtown Fort Worth Information

Parking:

Self-park is available for conference attendees for a discounted rate of \$12 for a day pass and \$18 for overnight guests. The self-park area is directly behind the hotel. Covered valet parking is also available at the regular hotel rate.

To park, pull in at the covered entrance located at the front of the Sheraton and tell the valet/parking attendant you are with the GWPC. For self-park they will need to give you a key.

Meeting Rooms:



Downtown Fort Worth Attractions

The Sheraton Downtown Fort Worth is minutes from great dining, shopping and attractions. Many of these can be accessed through the city's free public transportation – Molly the Trolley.



Sundance Square

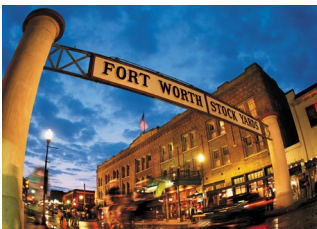
Spanning 35 blocks in Downtown Fort Worth, (just minutes from the Sheraton) Sundance Square is filled with dozens of options for shopping, dining, and entertainment.

Visit their web site for an interactive map of dining, shopping, etc: <https://sundancesquare.com/map/>



Fort Worth Water Garden

The Fort Worth Water Gardens is a beautiful and refreshing oasis located downtown, directly across the street from the Sheraton. Designed by Phillip Johnson (Amon Carter Museum of American Art), the Water Gardens is an architectural and engineering marvel to be enjoyed any time of the year. The park features three pools of water: the aerating, the quiet and the active pool.



Fort Worth Stockyards (National Historic District)

Whatever kind of entertainment you're looking for, there are plenty of ways to cut loose at the Stockyards. Take a train ride, catch a shootout show, explore museums or enjoy the nightlife at a saloon-style bar.

The Stockyards are located about 3.5 miles from the Sheraton.

Transportation

Molly the Trolley is a free vintage-style trolley that offers quick and convenient travel.

The Downtown Get Around. This route runs between the Fort Worth Convention Center and Sundance Square, and makes stops near downtown hotels, landmarks, restaurants, shops and entertainment. Molly runs every 10-15 minutes, 7 days a week, from 10 a.m. to 10 p.m.

Molly also stops at FWTA's Intermodal Transportation Center (ITC), where you can access the commuter rail on the TRE and Amtrak, city and state bus service, and rental cars.

Take Route 15 to the Stockyards. Daily service between ITC and the Stockyards runs every 15 minutes during peak hours.

