

GWPC
UIC
CONFERENCE

FEB. 26-28, 2024

Oklahoma City

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AGENDA



February 26-28, 2024 | Oklahoma City

Sheraton Oklahoma City Downtown

Monday, February 26, 2024

10:30 – 5:00

Registration (Foyer)

Please note snacks will be served from 11:30 am – 1:30 pm for seminar and workshop attendees.

1:00 – 5:00

Injection Well Seminar: How the Technology Works and is the Basis for Regulation (Century)

Ken Cooper, Petrotek | Dan Jarvis, GWPC

After a brief introduction to injection wells and the UIC program, the necessary features of an injection system are described and then used to explain the concepts of pressure driven flow through a well into porous media and the physical parameters that define the process. Illustrations are used to describe how these concepts are inter-related and that they control pressure and injectate distribution, well capacity, containment, and cone-of-influence. The technical rationale of UIC regulatory requirements, permits, and no-migration petition standards are then presented. The practical operation of injection wells with typical compliance and operating issues are then discussed and related back to the concepts introduced earlier in the presentation. Familiarization with mechanical integrity test methods and the physical principles associated with them is offered followed by a discussion of reservoir testing, how it relates to the physical parameters that govern injection, and what types of data and insight into injection wells can be derived from ambient reservoir monitoring (fall-off tests).

Sponsored by: ***Petrotek***

12:00 – 3:30

Class VI Work Groups Training Workshop (Plaza)

Primacy Support Work Group

Co-Chairs: Lily Barkau, Wyoming Water Quality Division & Bob Van Voorhees, UIC & Carbon Sequestration Council

Training/ Curriculum Development Work Group

Co-Chairs: Susan Hovorka, Bureau of Economic Geology, UT, Corey Shircliff, Louisiana DNR, and Todd Boesiger, Nebraska OGCC

EPA OGWDW Q&A with States/Tribes on Class VI Program Development and Grants

William Bates, US EPA, Office of Ground Water and Drinking Water, UIC Branch

Class VI Area of Review (AoR) Delineation Modeling Workshop: Ask a Scientist

Presenter TBA, Pacific Northeast National Lab

4:00 – 5:00

FracFocus 4.0 Overview (Plaza)

FracFocus 4.0 launched in December 2023. This session will include an overview of the new system, and an opportunity for Q/A and discussion.



5:30 – 7:00

Welcome Reception: Sheraton (One Broadway, First Floor)

Network with fellow attendees during our Welcome Reception. Business casual attire. Drinks and Heavy Hors d'Oeuvres provided.

Tuesday, February 27, 2024

7:30 – 5:00

Registration (Foyer)

7:30 – 8:30

Breakfast (One Broadway, First Floor)

Breakfast Buffet

7:30 – 8:30

ASR-MAR Breakfast (Red Carpet, Second Floor)

Grab your breakfast in One Broadway on the first floor and bring it to the Red Carpet room for a discussion of ASR-MAR issues. Meet some of the GWPC ASR-MAR Workgroup Co-chairs and Leadership Team members. Take the opportunity to network and help the Workgroup identify topics and potential speakers for free quarterly webinars. We encourage meeting participants to help us identify problems and emerging issues and what GWPC could do to help the membership.

8:30 - 10:00

Opening General Session (Century)

Moderators: Amy Klei, Ohio EPA and Incoming GWPC President & Dan Yates, GWPC Executive Director

Investing in Opportunity: How the Geothermal Technologies Office is Supporting Geothermal Everywhere

Sean Porse, US Department of Energy, Geothermal Technologies Office

Updates from US EPA Office of Water

Anita Thompkins, US Environmental Protection Agency, Office of Ground Water & Drinking Water, Drinking Water Infrastructure Development Division

Welcome from Oklahoma

Ken McQueen, Oklahoma Cabinet Secretary of Energy and Environment

10:00 – 10:30

Break

10:30 – 12:00	<p>Produced Water (Century) Moderator: Jim Moore, Railroad Commission of Texas</p> <p>Treatment and Reuse of Produced Water as Alternative Disposal Options Mike Hightower, PE, New Mexico Produced Water Research Consortium/New Mexico State University & Jerri Pohl, New Mexico Office of the State Engineer</p> <p>Pathway for Recovering Critical Minerals and other Elements of Interest from Produced Water Kyle Murray, PhD, Murray Geoconsulting</p> <p>Colorado Produced Water Consortium Hope Dalton, Colorado Produced Water Consortium</p>	<p>Class V UIC (Plaza) Moderator: Bryan Smith, Texas Commission on Environmental Quality</p> <p>Iowa Experience with Agricultural Drainage Well Inspection. Testing, Permitting, and Closure Michael Anderson, Iowa Department of Natural Resources</p> <p>Monitoring Potential Water Quality Changes Using Enhanced Aquifer Recharge: Unlocking the Secrets of a Fractured/Karst Aquifer Doug Beak, PhD, US Environmental Protection Agency</p> <p>EPA’s UIC Training Modules Jeff Jollie, US EPA, Office of Ground Water and Drinking Water, Drinking Water Protection Division</p>
12:00 – 1:30	Lunch On Own	
1:30 – 3:00	<p>Class II UIC (Century) Moderator: Ashleigh Thiel, ND Department of Mineral Resources</p> <p>Monitoring, Reporting and Verification Plan Overview for Class II Wells Matt Eales, Targa Resources</p> <p>Fault Slip Potential (FSP) Model of Deep Injection in Northern Culberson-Reeves Texas and Southern New Mexico Jim Moore, Railroad Commission of Texas</p> <p>History of Identifying Wells of Concern, Corrective Action Plans, and How Area of Reviews have Evolved for UIC Wells in Oklahoma Megan Cova, Oklahoma Corporation Commission</p>	<p>Class V UIC Issues & Beyond (Plaza) Moderator: Dan Yates, GWPC</p> <p>Panel and Updates from EPA’s Office of Ground Water and Drinking Water, UIC Branch William Bates, US EPA, Office of Ground Water and Drinking Water, UIC Branch</p> <hr/> <p>Class V PFAS Work Group Introduction & Discussion Dan Yates, GWPC Executive Director</p>
3:00 – 3:30	Break	

3:30 – 5:00

Geothermal Energy (Century)
Moderator: Ivan Salas, Railroad Commission of Texas

Both Super Hot & Closed-Loop Geothermal Use Minimal Water
 Robert Pilko, Blade Energy Partners

Eavor-Loop: Maximizing America's Geothermal Opportunity
 Malcolm Ross, PhD, Eavor Technologies

Building Predictable Regulatory Pathways for Successful Geothermal Deployment
 Sarah Jewett, Fervo Energy

Class II UIC State Panel and Work Group (Plaza)
Moderator: Dan Jarvis, GWPC

Class II State Panel

- Ryan Hoffman, Kansas Corporation Commission, Conservation Division
- Mark Bohrer, North Dakota Industrial Commission, Oil & Gas Division
- Jason Mailloux, Michigan Department of Environment, Great Lakes & Energy

Class II Work Group Introduction & Discussion
 Dan Jarvis, GWPC

5:30 – 7:00

Networking Reception: Vast

Join us for an evening of networking at the UIC Conference Networking Reception, hosted at the Vast Infinity Room on the 50th floor of the iconic Devon Tower. Experience panoramic views of the Oklahoma City skyline through floor-to-ceiling windows, creating a captivating backdrop for meaningful connections. This reception provides a relaxed atmosphere for professionals in the Underground Injection Control (UIC) community to unwind, share insights, and build relationships. We look forward to connecting with you against the backdrop of the Oklahoma City skyline.

Please note that business casual attire is recommended. The event will feature a selection of heavy hors d'oeuvres and beverages to enhance the networking experience.

Walking Directions:

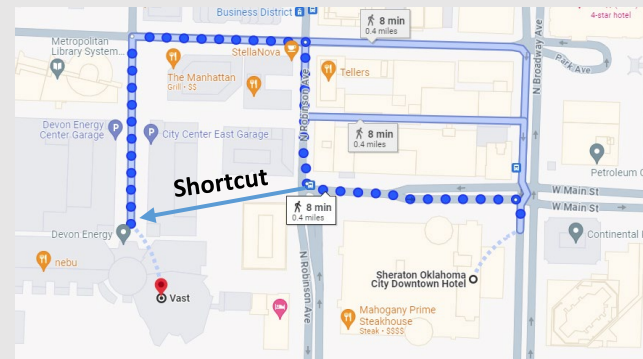
Exit Sheraton and head west on Main Street.

Map Directions: Turn right on Robinson from Main, Take a Left at Park and another left at Harvey and head straight to Devon Tower.

Shortcut: At Main and Robinson cut through walkway across the street and through the City Center East Garage to the Devon Tower.

Take elevators to the 50th Floor.

Reception Sponsor: ExxonMobil



Wednesday, February 28, 2024

7:30 – 5:00	Registration (Foyer)	
7:30 – 8:30	Breakfast (One Broadway, First Floor) <i>Breakfast Buffet</i>	
7:30 – 8:30	Breakfast: Complementing the CCS Class VI Well Permit Process with DOE-NETL's SMART Initiative Tools & Workflows (Green Country) Hema Siriwardane, PhD, US Department of Energy, National Energy Technology Laboratory (NETL) Hari Visvanathan, PhD, Los Alamos National Laboratory Seyyed A. Hosseini, PhD, Gulf Coast Carbon Center (GCCC), Bureau of Economic Geology, The University of Texas at Austin <i>Grab your breakfast from the buffet in One Broadway and bring it up to the Green Country Room. Check out the interactive agenda online for a complete description. Limited Space Available.</i>	
8:30 - 10:00	Class VI UIC & CCUS (Century) Moderator: Ryan Hoffman, Kansas Corporation Commission Emerging Trends in Carbon Sequestration Projects in Louisiana Corey Shircliff, Louisiana Department of Natural Resources North Dakota Class VI Permitting: Lessons Learned Caitlin Olsen, Energy & Environmental Research Center Update on Carbon Sequestration and the Texas Class VI UIC Program Leslie Savage, Texas Railroad Commission, Oil & Gas Division	Class I UIC (Plaza) Moderator: Ken Brooks, Kansas Department of Health and Environment How Might Co-Mingling UIC Waste Plumes Affect Class I UIC Operations and the Area of Review? Kacey Garber, SCS Engineers Dodging Regulatory Logjam for PFAS Waste Injection Bob VanVoorhees, Underground Injection Technology Council Documenting Long-Term Operational Success of Class I Wells in the US Gulf Coast to Build Confidence in the UIC Program Angela Luciano, Gulf Coast Carbon Center – Bureau of Economic Geology, UT Austin
10:00 – 10:30	Break (Foyer) Sponsored By: SCS ENGINEERS	

10:30 – 12:00	<p>Class VI UIC & CCUS (Century) Moderator: Corey Shircliff, Louisiana Department of Natural Resources</p> <p>Can Financial Assurance Become a Class VI Project Fatal Flaw? Tyler Burton, PhD, Petrotek Engineering Corporation</p> <p>Pore Space Conflicts: Class VI Injection into Previously Utilized Pore Space Charles Hostetler, PhD, SCS Engineers</p> <p>Issues Related to Multiple Wells Perforated in the Same Injection Zone Susan Hovorka, PhD, Bureau of Economic Geology, Jackson School of Geosciences, University of Texas at Austin</p>	<p>PFAS (Plaza) Moderator: Amy Klei, Ohio Environmental Protection Agency</p> <p>The Uninvited Party Guest: A PFAS Regulatory and Technical Update Jonathan Skaggs, PG, & Stephen Richardson, PhD, PE, PEng, GSI Environmental, Inc.</p> <p>Addressing Emerging Contaminates at Groundwater Discharge Sites in the State of New Hampshire Jonathan Whaland, New Hampshire Department of Environmental Services</p> <p>PFAS Disposal in Oklahoma Hillary Young, Oklahoma Department of Environmental Quality</p>
12:00 – 1:30	Lunch On Own	
1:30 – 3:00	<p>Class VI UIC & CCUS (Century) Moderator: Lily Barkau, Wyoming Department of Environmental Quality</p> <p>Technical Implications of Class VI Injection Lewis Wandke, Petrotek Engineering</p> <p>Designating Exempted Aquifers for Class VI Wells Bob Van Voorhees, Carbon Sequestration Council</p> <p>Global and Domestic Status of CCS Joey Minervini, Global CCS Institute</p>	<p>PFAS (Plaza) Moderator: Kay Coffey, PhD, PE, Oklahoma Department of Environmental Quality</p> <p>What's New in PFAS Research? - A WRF Overview Frank J. Blaha, The Water Research Foundation</p> <p>Per- and Polyfluoroalkyl Substances (PFAS) in Domestic Wastewater: Presence, Sources, and Potential Impacts to Groundwater Quality Jennifer Harfmann, New Hampshire Department of Environmental Services</p> <p>PFAS Regulatory Update: From Superfund to Safe Drinking Water Act Standards Tim Sowecke, GableGotwals</p>
3:00 – 3:30	Break	

3:30 – 5:00

Closing Session: Environmental Justice & UIC (Century)

Moderated By: Dan Yates, GWPC

Application of Recent US EPA Guidance and EJ Screen Tool to Identify, Analyze, and Address Environmental Justice Concerns at Carbon Capture and Storage Sites

Danny Kingham, GSI Environmental Inc.

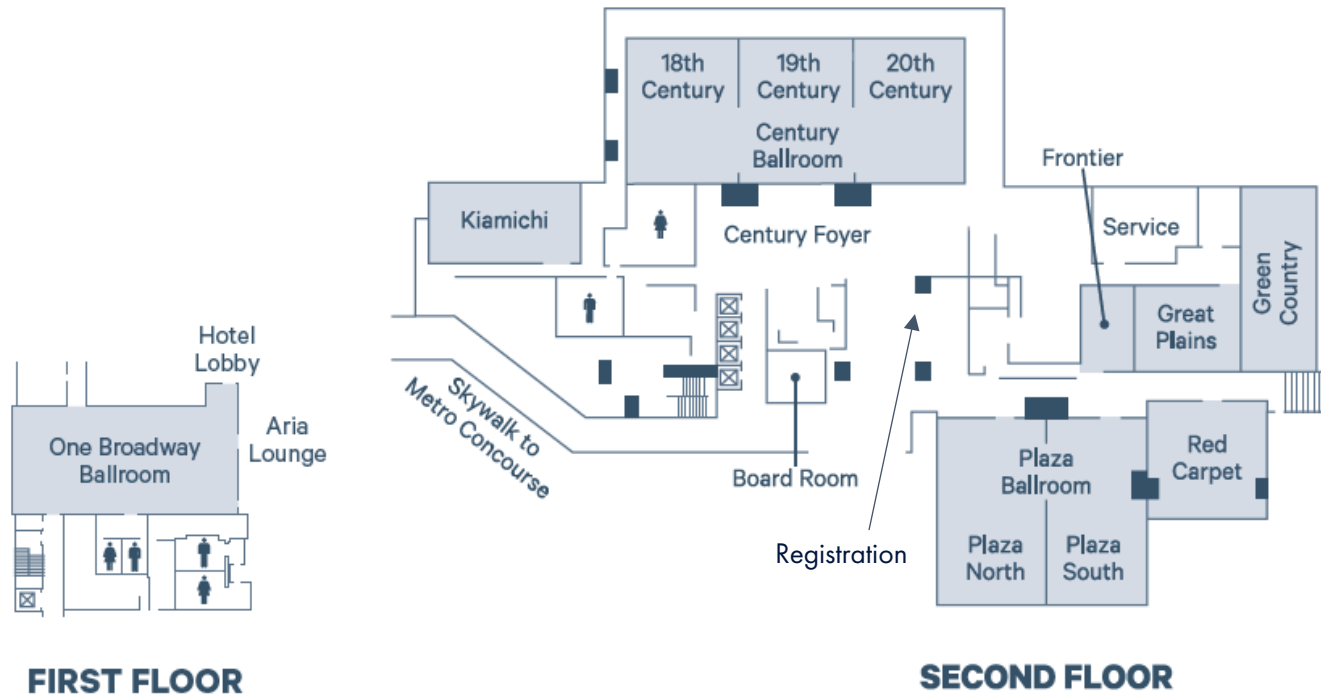
Capturing Better Futures Initiative

Vernon Travis, Capturing Better Futures Initiative

EJ Practices in the Real World: A Tale of Two Cities

Lauren Berry, Lapis Energy

Sheraton Meeting Space Map



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