

ANNUAL FORUM



SLC PRELIMINARY AGENDA

(Updated 4.19.22)

Tuesday, June 21, 2022

12:30 – 5:00	Registration	
1:00 – 5:00	<p>ASR Field Trip: Provo Utah</p> <p>Pre-registration Required (Limited Availability)</p> <p>This field trip will visit two of infiltration sites, Rock Canyon and Riverview Park.</p> <p>NOTE: The path to the sites will be paved, but a short hike. Please wear comfortable walking shoes/tennis shoes.</p>	Class VI Work Group Meeting (1 PM – 4 PM)
4:00 – 5:00	GWPC Board Meeting	
5:30 - 7	Hotel Networking Reception: Sheraton Salt Lake City	

Tuesday, June 21, 2022

REGISTER: www.gwpc.org

Wednesday, June 22, 2022

7:30 – 5:00	Registration	
7:30 – 8:30	Breakfast	
8:30 - 10:00	<p>Opening General Session</p> <p><i>Federal Update EPA</i></p> <p><i>Federal Update DOE</i></p> <p><i>"The Latest on Federal Orphan Well Closure Funding"</i> Adam Peltz, Environmental Defense Fund</p>	
10 – 10:30	Break	
10:30 - 12	<p>Carbon Capture & Storage: State & Federal</p> <p><i>"US DOE Update on CarbonSAFE Commercial Storage Facilities"</i> John Litynski, US DOE, Office of Fossil Energy & Carbon Management</p> <p><i>"Ensuring States are 'Carbon Capture Ready': Building the Supportive Policy Environment for Commercial-Scale CO2 Storage"</i> Matt Fry, Great Plains Institute</p> <p><i>"Carbon Sequestration Injection Well Permitting in Wyoming, USA"</i> Lily Barkau, Wyoming Department of Environmental Quality</p> <p><i>"CCS Opportunities in the Upper Midwest"</i> John Satterfield, Summit Carbon Solutions</p>	<p>PFAS</p> <p><i>"PFAS 101 Evaluating PFAS in Wyoming"</i> Nicole Twing, Wyoming DEQ Water Quality Division</p> <p><i>"Elimination of PFAS at Landfills Via Class I Injection"</i> Tom Tomastik, ALL Consulting, LLC</p> <p><i>"The Role of Underground Injection in Management of Aqueous PFAS"</i> Frank Marine, Texas Molecular</p> <p><i>"Implications of PFOA and PFOS on Class V UICs"</i> Brandon Kernen, NHDES</p>
12:00 – 1:30	Lunch On Own	

1:30 – 3:00	<p>Carbon Capture & Storage</p> <p><i>“Flue Gas Injection as an Alternative to CO2 Capture: Subsurface Risk Considerations and Financial Tradeoffs”</i> Brandon Schwartz, The Pennsylvania State University</p> <p><i>“Practical Considerations for Carbonated Brine Injection”</i> Bob Van Voorhees, Robert F Van Voorhees PLLC</p> <p><i>“Fiber-Optic Monitoring of CO2 Storage Wells: State-of-the-Art Review”</i> Talib Syed, TSA, Inc.</p> <p><i>“Early Phase Execution for Carbon Capture and Sequestration “CCS” Projects Today”</i> Lloyd Hetrick, Tetra Tech, Inc.</p>	<p>Aquifer Storage & Recovery</p> <p>ASR Work Group Overview / Meeting</p> <p><i>“More Managed Aquifer Recharge (MMAR) – A Solution to Combat Droughts and Climate Change in the West”</i> R. Jeffrey Davis, Integral Consulting</p> <p><i>“Aquifer Characterization for Brackish Groundwater Production and Aquifer Storage and Recovery (ASR): A Case Study on the Carrizo-Wilcox Aquifer in Central Texas”</i> Andrea Croskrey, Texas Water Development Board</p>
3:00 – 3:30	Break	
3:30 – 5:00	<p>Energy & Groundwater</p> <p><i>“Energy-Water Nexus – Where We Are and Where we Need to Be”</i> Ashwin Dhanasekar, The Water Research Foundation</p> <p><i>“Geothermal Opportunities in Low Temperature Formations”</i> Cindy Taff, Sage Geosystems</p> <p><i>“Exploratory Data Analysis for Critical Minerals and Recoverable Elements in Produced Water”</i> Kyle Murray, Murray GeoConsulting LLC</p> <p><i>“Geoenvironmental Assessment of Undiscovered Uranium Resources: Proof of Concept in the Texas Coastal Plain”</i> Katherine Walton-Day, US Geological Survey</p>	<p>Aquifer Storage & Recovery</p> <p><i>“Statewide Mapping of California’s Aquifers with Airborne Electromagnetics”</i> Timothy K Parker, Ramboll</p> <p><i>“Managed Aquifer Recharge for Sustainable Groundwater-Irrigated Agroecosystems Utilizing Riverbank Filtration and Groundwater Transfer and Injection”</i> Andy O’Reilly, USDA Agricultural Research Service</p> <p><i>“The ASCE/EWRI Standard Guidelines for Managed Aquifer Recharge”</i> Gordon McCurry, McCurry Hydrology, LLC</p>
6:00 – 8:30	<p>Reception: Keys on Main</p> <p>Dinner and live piano entertainment. Guests will be encouraged to request songs for the entertainers to sing and play.</p>	

Thursday, June 23, 2022

7:30 – 5:00	Registration	
7:30 – 8:30	Breakfast	
8:30-10:00	<p>Class VI UIC</p> <p><i>“Sensitivity of Aquifer Chemistry to Changes in Carbon Dioxide Partial Pressure: Implications for Design of Groundwater Monitoring Protocols”</i> Kacey Garber, SCS Engineers</p> <p><i>“Addressing the Challenges of CCUS and Pursuing a Plan to Success”</i> Tom Tomastik, ALL Consulting LLC</p> <p><i>“Design of a Science-Based Testing and Monitoring Plan to Meet the Requirements of UIC Class VI Permits”</i> Susan Hovorka, Bureau of Economic Geology, The University of Texas, Austin</p>	<p>Groundwater Data and Characterization</p> <p><i>“Water Quality Site Selection and Database Management of Wells and Springs in Utah for the National Ground-Water Monitoring Network”</i> Janae Wallace, Utah Geological Survey</p> <p><i>“Ohio EPA’s Ambient Ground Water Quality Characterization Program (AGWQMP)”</i> Katharine Schleich, Ohio EPA</p> <p><i>“Alabama WaterSTAR: A New Tool for Groundwater Assessment and Data Storage and Sharing”</i> Greg Guthrie, Geological Survey of Alabama</p>
10 – 10:30	Break	
10:30 – 12:00	<p>Class II UIC & Gas Storage</p> <p><i>“New Mexico’s Closed Loop Gas Capture Pilot Program”</i> Adrienne Sandoval, NM Energy, Minerals and Natural Resources Department</p> <p><i>“A State-Wide Automated Web-Based Tool for Estimating Injectate Migration from Class II Wells in Texas”</i> Rohit R. Goswami, RRG Professional Engineering</p> <p><i>“Induced Seismicity in the Permian Basin – Current Understandings, Relationships, and Mitigating Actions”</i> Cody Comiskey, Chevron</p>	<p>Class I UIC</p> <p><i>“Microbially Influenced Corrosion in Injection Wells : A Case Study in a Class I Well for Coal Combustion Residuals”</i> Stephanie Hill, SCS Engineers</p> <p><i>“Proactively Preventing Class I Hazardous and Non-Hazardous Injection Well Failures via Tracking Annulus Fluid Levels”</i> Tim Hampel, Ohio EPA</p>

	Class II UIC Discussion	
12:00-1:30	Lunch on your own	
1:30 – 3:00	<p>Produced Water</p> <p><i>“Produced Water Treatment and Reuse: Solar Thermal Desalination with Combined Heat and Power Cycle, and High Salinity Carbonated Water Flooding”</i> Prem Bikina, Oklahoma State University</p> <p><i>“Produced Water Reuse – From an ESG and Production Enhancement Standpoint”</i> Rick McCurdy, Select Energy Services</p> <p><i>“Trends in the Fit-For-Purpose Treatment and Reuse of Produced Water”</i> Mike Hightower, NM Produced Water Research Consortium</p> <p><i>“Alternative Produced Water Management Strategies in a Seismically Restricted World: Issues & Opportunities”</i> Nate Alleman, ALL Consulting</p>	<p>Source Water</p> <p><i>“The Bipartisan Infrastructure Law and Source Water Protection”</i> Kara Goodwin, US EPA</p> <p><i>“Mo’ Money for Groundwater by way of SDWA and on to CWA 319: A Tour of Nebraska’s new Drinking Water Protection Management Plans”</i> Tatiana Davila, NE Department of Environment and Energy</p> <p><i>“AWWA Stormwater Management for Water Utility Standard”</i> Chi Ho Sham, ERG</p> <p><i>“Perryville Missouri – Karst Capital of the World?”</i> Brent Buerck, City of Perryville</p>
3:00 – 3:30	Break	
3:30 – 5:00	<p><i>Induced Seismicity Panel: What Has Changed and What is Important for Decision Making? (Organized by RISC)</i></p> <p>This panel-style special session will focus on the coevolution of research and regulation in states that are experiencing induced seismic events.</p> <p>Goals:</p> <ul style="list-style-type: none"> To better understand recent seismicity and the injection-related data that states collect, synthesize, and make available to the public. 	<p>UIC & Groundwater Protection: Opportunities & Challenges (Class I, III, V Discussion Panel and Session)</p> <p>Panel TBA</p>

	<ul style="list-style-type: none"> • To understand how data are used by regulators in their decisions related to SWD wells and how emergent seismogenic regions have impacted the decision-making process. • To find commonalities and differences between approaches used to mitigate seismicity and risk. 	
5:00 – 6:00	Conference “Wine Down” Reception	