



2023 TAMPA
ANNUAL FORUM



Agenda



ANNUAL FORUM

Tampa, Florida

Sept. 12 – 14, 2023 | Westshore Grand Hotel

Tuesday, September 12th

8:15 – 5:00

Registration (Foyer)

9:00 – 3:30

ASR / MAR Field Trip

Pre-Registration Required. See Detailed Itinerary Here: <https://www.gwpc.org/field-trip/>

Meet at buses at **8:45 am** to depart at 9 am. Exit the building and proceed to the road where the bus pick up is on S Occident St (next to Publix Supermarket)

***NOTE:** Boxed lunch served outdoors at a covered park pavilion. Please wear comfortable CLOSED TOE comfortable walking shoes (for safety requirements in facilities) and comfortable clothing. Suggested optional items include rain gear or umbrella, sunscreen and/or hat.*

2:00 – 4:00

Well Site Plugging & Abandonment Workshop (Bayshore)

Dan Arthur, ALL Consulting

Activities associated with and included the plugging & abandonment of Orphan, Idle, non-producing/non-economic, and leaking plugged oil & gas wells has become a major priority not only throughout the United States, but also throughout the World. Here in the United States, the Bipartisan Infrastructure Law (BIL), also known as the Infrastructure Investment and Jobs Act, has provided substantial funding to address legacy pollution challenges nationwide on Federal, Tribal, State and also private lands. Funding from the BIL is being used to remediate groundwater and surface water contamination, restoration of habitat, and permanent well abandonment. The emphasis and attention being placed on these legacy issues has resulted in significantly increased activities pertaining to these wells and well sites, not only through funding from IJA, but state plugging funds, oil & gas companies, industry organizations, and also non-profits. Considering more than a million wells may require plugging and associated remediation, a broad variety of issues have become important. These issues (without getting into details) range from finding and characterizing undocumented wells, assessing risks, managing safe access strategies, developing abandonment and reclamation plans, choosing materials for well plugging, quantifying and characterizing emissions, land/environmental restoration, and reporting. The GWPC Workshop will cover these and other relevant issues and present an overview of the reference/guidance document scheduled for publication in September 2023.

3:00 – 5:00

GWPC Board Meeting (Westshore)

GWPC Board Members Only

5:30 – 7:00

Hotel Networking Reception: Westshore Grand Hotel (Garden Atrium)

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

Wednesday, September 13, 2023

7:30 – 5:00	Registration (Foyer)	
7:30 – 8:30	Breakfast (Garden Atrium) <i>Come and go breakfast buffet</i>	
8:30 - 10:00	Opening General Session (Bayshore) <i>Welcome</i> Nick Tew, GWPC President <i>An Overview: Ground Water Research & Education Foundation</i> Stan Belieu, GWREF President <i>Water Lessons Learned from Israel</i> Shellie Chard, Oklahoma DEQ, GWPC Treasurer, Board Trustee Water Environment Federation <i>EJ and Civil Rights at EPA Today</i> Matthew Tejada, Deputy Assistant Administrator for Environmental Justice, US Environmental Protection Agency	
10:00 – 10:30	Break	
10:30 – 12:00	Produced Water (Bayshore) <i>Moderator: Ted Wooten, Texas Railroad Commission</i> <i>U.S. Produced Water Volumes and Management Practices in 2021</i> Jon Seekins, ALL Consulting <i>GWPC Produced Water Report – 2023 Update</i> Mark Kidder, ALL Consulting <i>A Produced Water Sharing Framework to Promote Water Reuse in Oil and Gas Operations</i> Markus Drouven, PhD, DOE – NETL <i>Characterization of Oil-Field Brines and Estimation of Gross Values for Elements of Interest in Produced Waters</i> Kyle Murray, PhD, Murray GeoConsulting, LLC	Aquifer Storage & Recovery and Managed Aquifer Recharge (Poinciana) <i>Moderator: Jason Meadows, UIC Program, US EPA Region 4</i> <i>Reuse for Recharge: Opportunities for Water Reuse in EAR and ASR</i> Justin Mattingly, U.S. EPA, Water Reuse Program <i>Texas Water Development Board ASR and AR Program Overview and Update</i> Andrea Croskrey, Texas Water Development Board <i>MAR Well Design for a Challenging Environment</i> Mark Williams, Earth Data, Inc. <i>Preliminary Data from the U.S. EPA MAR site in the Arbuckle-Simpson Aquifer in Oklahoma</i> Douglas Beak, PhD, US EPA

12:00 – 1:30	Lunch On Own	
1:30 – 3:00	<p>Induced Seismicity (Bayshore) <i>Moderator:</i> Paul Dubois, Railroad Commission of Texas</p> <p><i>Regulation of Disposal Wells In Seismically Active Areas of Texas</i> Paul Dubois, PE, Railroad Commission of Texas</p> <p><i>Assessing Injection Impacts and Future Hazard in the Permian Basin Region</i> Katie Smye, PhD, Bureau of Economic Geology, University of Texas at Austin</p> <p><i>Modern Oil and Gas Development: A Primer (2023 Update)</i> Dan Arthur, ALL Consulting</p>	<p>Aquifer Storage & Recovery and Managed Aquifer Recharge (Poinciana) <i>Moderator:</i> Andrew O’Reilly, PhD, USDA-Agricultural Research Service</p> <p><i>Aspects of Adapting an Existing Deep Sandstone Well for Re-Use as an ASR Well</i> Michael Anderson, Iowa Dept. of Natural Resources</p> <p><i>Aquifer Storage and Recovery - Case Studies of Long-Term Operational Success</i> Pete Larkin, ASRus, LLC</p> <p><i>Envisioning the Potential of Aquifer Recharge in Florida</i> Mark McNeal, ASRus, LLC</p> <p><i>Update on the Lake Okeechobee Watershed ASR Program</i> Bob Verrastro, South Florida Management District (Retired)</p>
3:00 – 3:30	Break	
3:30 – 5:00	<p>New Energy Challenges & Opportunities (Bayshore) <i>Moderator:</i> Andrew Adgate, Ohio Department of Natural Resources</p> <p><i>Water, Energy, Food Nexus – What’s in the Works?</i> Ashwin Dhanasekar, The Water Research Foundation</p> <p><i>Geothermal 101 – The Heat Beneath Our Feet</i> Dave Boden, PhD, Truckee Meadows Community College (Retired)</p>	<p>ASR-MAR Work Group Meeting (Poinciana)</p> <p><i>Work Group Co-Chairs:</i></p> <ul style="list-style-type: none"> • Jason Meadows, US EPA, Region 4 • John Mitsdarfer, Oklahoma DEQ • Chi Ho Sham, AWWA Immediate Past President <p>View Agenda</p> <p>Open to all with interest in ASR-MAR. You can view the work group agenda online and in our event app.</p>

6:30 – 8:30

Reception: Florida Aquarium

Join us as we celebrate GWPC's 40th Anniversary! The reception includes dinner, drinks and networking held at the Florida Aquarium.

Dive into the amazing sights, sounds and experiences from tree level to sea level at The Florida Aquarium! Explore animal habitats featuring animals from right here in our own backyard to exotic locations throughout the globe. From mysterious sand tiger sharks and playful otters, to tiny seahorses and inquisitive sea turtles, you'll never know what you'll discover when you visit the wide variety of animal species at The Florida Aquarium.

Transportation will be provided to and from the aquarium. *Please be in the bus departure area between 6 and 6:15 pm at the latest if planning on utilizing for transportation. First bus will leave at 6 p.m.*

Bus Loading:

- Exit Meeting Room Area and go towards front desk (Left)
- At the thoroughway of the lobby, take a left (away from Illy's café)
- Go straight through the Atrium II and Urban Centre II Lobby
- Exit the building and proceed to the road where the bus pick up is on S Occident St (next to Publix Supermarket)

Thursday, September 14, 2023

7:30 – 5:00	Registration (Foyer)	
7:30 – 8:30	Breakfast (Garden Atrium) <i>Come and go breakfast buffet</i>	
	National Ground Water Monitoring Network Breakfast (Westshore) Grab a plate in the Garden Atrium and bring it to the Westshore room for a discussion on the NGWMN.	
8:30-10:00	<p>Environmental Data Management (Bayshore) <i>Moderator:</i> Markus Drouven, PhD, DOE-NETL</p> <p><i>Combining Multi-Agency Data and Analytical Tools for Assessing Municipal-Scale Water Resiliency</i> Michael Young, PhD, Bureau of Economic Geology, University of Texas at Austin</p> <p><i>Alabama WaterSTAR: A New Groundwater Assessment Tool</i> Gregory Guthrie, Geological Survey of Alabama</p> <p><i>A New Tool for Quantifying Impacts to Hydro-Economic Well Performance</i> Justin Thompson, PhD, Bureau of Economic Geology, Jackson School of Geosciences, University of Texas at Austin</p> <p><i>The USGS National Groundwater Monitoring Network and the USGS Climate Response Network</i> Jason Fine, The USGS National Groundwater Monitoring Network and the USGS Climate Response Network</p>	<p>The State of UIC – Challenges, Opportunities & Success (Poinciana) <i>Moderator:</i> Bryan Smith, PG, Texas Commission on Environmental Quality</p> <p><i>Arizona Primacy of the Underground Injection Control Program</i> Daniel Reeder, Arizona Department of Environmental Quality</p> <p><i>Ohio's Class II Disposal Well Rule Revision</i> Kenny Brown, Ohio Department of Natural Resources, Division of Oil and Gas Resources Management</p> <p><i>Overview and Impact of Florida Senate Bill 64 on the State's Water Disposal Options</i> Joseph Haberfeld, P.G., ASRus, LLC</p>
10 – 10:30	Break	

10:30 – 12:00	<p>Class VI Underground Injection Control (Bayshore) <i>Moderator:</i> Richard Powell, Utah Division of Oil, Gas & Mining</p> <p><i>Class VI Primacy in Louisiana: Expectations and Realities</i> Laura Sorey, Louisiana Department of Natural Resources</p> <p><i>Carbon Sequestration and the Texas Class VI UIC Program</i> Bryce J. McKee, Texas Railroad Commission, Oil & Gas Division</p> <p><i>A Computational Modeling Approach to Critical Pressure Calculations for Class VI Area of Review Delineation</i> Charles Hostetler, SCS Engineers</p> <p><i>An Overview of the GWPC Class VI Injection Control Curriculum for Regulators</i> Susan Hovorka, PhD, Bureau of Economic Geology, University of Texas & Laura Sorey, Louisiana Department of Natural Resources</p>	<p>Water Quality (Poinciana) <i>Moderator:</i> Amy Klei, Ohio EPA</p> <p><i>Per- and Polyfluoroalkyl Substances (PFAS) in Wastewater Generated from Commercial Cleaning Activities and Impacts to Groundwater Quality</i> Jennifer Harfmann, New Hampshire Department of Environmental Services</p> <p><i>PFAS Data Collection, Source Investigations, and Sample Prioritization Strategies</i> Robert Murphy, Colorado Department of Public Health & Environment, Water Quality Control Division</p> <p><i>Water Quality Updates from the EPA</i> Katherine Foreman, US EPA, Office of Ground Water and Drinking Water</p>
12:00-1:30	Lunch on your own	
1:30 – 3:00	<p>Carbon Capture & Underground Storage (Bayshore) <i>Moderator:</i> Ken Nichols, Tetra Tech</p> <p><i>Developing Carbon Storage Infrastructure through Carbon Storage Assurance Facility Enterprise (Carbon-SAFE)</i> Mark L McKoy, PhD, US DOE, NETL</p> <p><i>Nationwide Assessment of Saline Reservoir CO2 Storage Properties and Sequestration Costs for the United States using the SCO2TPRO Sequestration Screening Tool</i> Kyle Cox, Carbon Solutions, LLC</p> <p><i>Keys to Assuring Storage Permanence in Class VI Projects</i> Susan Hovorka, Bureau of Economic Geology, University of Texas</p> <p><i>Designing CCS Infrastructure to Meet National Goals</i> Richard Middleton, Carbon Solutions, LLC</p>	<p>Source Water Protection (Poinciana) <i>Moderator:</i> Amy Klei, Ohio EPA</p> <p><i>Partnering with NRCS to Protect Drinking Water Sources</i> Bianca Diaz Deliz, USDA – Natural Resources Conservation Service (NRCS)</p> <p><i>Leveraging Partnerships and Funding Opportunities for Source Water Protection and UIC</i> Beth Garcia, EPA Region 3 – Philadelphia Office</p> <p><i>Collaboration is Key: Protecting Source Water in Nebraska Through Multi-Organization Efforts to Implement Management Practices, Expand Education, and Engage the Public</i> Amanda Osborn and Connor McFayden, Nebraska Department of Environment and Energy</p>

3:00 – 3:30	Break	
3:30 – 5:00	<p>Class VI Underground Injection Control Work Group Meeting (Bayshore)</p> <p><i>Work Group Co-Chairs:</i></p> <ul style="list-style-type: none"> • Lily Barkau, Wyoming Department of Environmental Quality • Bob Van Voorhees, Underground Injection Technology Council <p>View Agenda</p> <p>Open to all with interest in Class VI. You can view the work group agenda online and in our event app.</p>	<p>Source Water Protection (Poinciana) <i>Moderator:</i> Beth Garcia, EPA Region 3 – Philadelphia Office</p> <p>Minnesota’s Source Water Protection Collaborative Britta Dornfeld, Environmental Initiative</p> <p>Utilizing Source Water Protection Implementation Survey Data to Target Outreach and Develop Resources for Public Water Systems in the State of Ohio Mackenzie Rutherford, Ohio EPA</p> <p>Skywater: Restoration of Georgia’s Radium Springs Mark Masters, Georgia Water Planning & Policy Center at Albany State University</p>
5:00 – 6:00	Conference “Wine Down” Reception	



2023 GWPC Annual Forum

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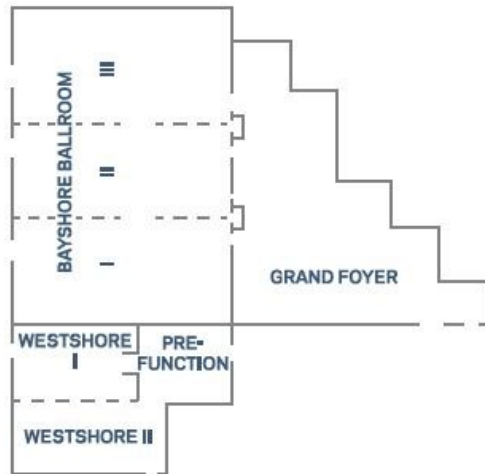
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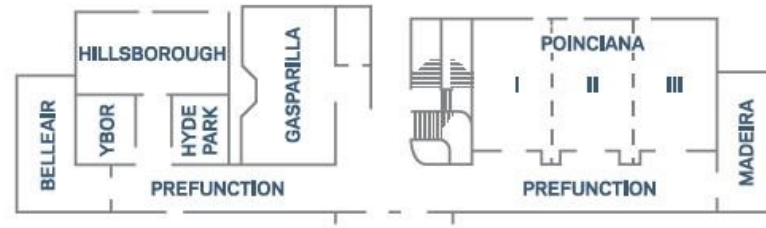
Continuing Education Form Also Available in Whova App

Westshore Grand Meeting Rooms

LOBBY LEVEL



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Scan for Tampa Visitors Information

Visitors Guide



Map of Westshore Area

