

# 2020 VIRTUAL ANNUAL FORUM




## GWPC Virtual Conference Agenda

(All Events: Central Time Zone)

### Monday, Sept. 28, 2020

1:30 pm – 2 pm	<p><b>Annual Forum Orientation</b> Log on to explore the Annual Forum virtual experience and participate in a brief orientation by key GWPC staff members on how to get the most out of the conference.</p>
2:30 pm – 3 pm	<p><b>New Attendee Orientation</b> Are you new to GWPC events or have you ever wondered how to get involved in the organization? This is a great networking opportunity for new attendees to chat with Board members and staff, hear more about the GWPC, and engage with other new attendees.</p>

### Tuesday, Sept. 29, 2020

9 am – 9:50 am	<p><b>Morning Grind Networking Events:</b> Grab a coffee and join us for our morning meet up! These topical virtual discussion groups are a perfect opportunity to network and discuss top issues faced by you and others in your field.</p> <ul style="list-style-type: none"> <li>• <b>Class V Injection</b> Moderated by: Dan Yates, GWPC</li> <li>• <b>Class II Injection Roundtable Discussion</b> Moderated by: Dylan Rose-Cross, New Mexico Oil Conservation Division</li> </ul>
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10 am – 11:30 am	<p><b>General Session</b></p> <ul style="list-style-type: none"> <li>• <b>Welcome and Conference Overview</b> Jon Kenning, Montana DEQ, Incoming GWPC Board President</li> <li>• <b>Updates from Federal Partners</b> Shawn Bennett - Deputy Assistant Secretary for Oil and Natural Gas, U.S. Department of Energy Jennifer McLain – Director, Office of Ground Water &amp; Drinking Water, U.S. Environmental Protection Agency</li> </ul>	
12 pm – 1:30 pm	<p><b>Produced Water: State &amp; National Initiatives</b> <i>Moderator:</i> Shellie Chard, OK DEQ / John Baza, Utah DNR</p> <ul style="list-style-type: none"> <li>• <b>Task Force Update</b> Shellie Chard, Oklahoma DEQ/ GWPC Task Force Co-Chair John Baza, Utah DNR / GWPC Task Force Co-Chair</li> <li>• <b>Trends in Produced Water Reuse - National Initiatives, Standards, and Markets</b> Mike Hightower, New Mexico Produced Water Research Consortium</li> <li>• <b>Bureau of Reclamation Produced Water Research</b> Katie Guerra, US Bureau of Reclamation</li> <li>• <b>Promoting Beneficial Reuse of Produced Water Through Research</b> Ashwin Dhanasekar, The Water Research Foundation</li> </ul>	<p><b>Aquifer Storage &amp; Recovery, Managed Aquifer Recharge, Enhanced Aquifer Recharge</b> <i>Moderator:</i> Chi Ho Sham, ERG</p> <ul style="list-style-type: none"> <li>• <b>GWPC ASR / MAR Workgroup Overview</b> Lorrie Council, Texas Council on Environmental Quality Karen Feret, U.S. Environmental Protection Agency Chi Ho Sham, ERG</li> <li>• <b>Evaluating Surface water and Groundwater Network in Red Butte Watershed to Obtain Sustainable Groundwater Yield and Availability</b> Saeid Masoudiashtiani, PhD Candidate, Utah State University</li> <li>• <b>Provo Aquifer Storage and Recovery – From Planning to Pilot</b> Jeff Davis, PE, Barr Engineering</li> <li>• <b>Aquifer Recharge Using Class V Injection Wells in Texas: Implementation of the New 2020 TCEQ Rules</b> Lorrie Council &amp; Carol Dye, Texas Commission on Environmental Quality</li> </ul>

1:30 pm – 2 pm	<p><b>Networking Break with Exhibitors</b>          Take a break and then be sure to connect with our sponsors &amp; exhibitors in the Virtual Exhibit Hall. The Virtual Exhibit Hall features valuable bonus content provided by our sponsors. Don't forget to sign up for giveaways!</p>	
2 pm – 3:30 pm	<p><b>Water Reuse: Research Showcase</b>  <i>Moderator:</i> Lloyd Hetrick, East Shore Investments, LLC</p> <ul style="list-style-type: none"> <li>• <b>Implications of Regional Produced Water Use in Gasoline Production Water Footprint</b>              May Wu, Ph.D., Argonne National Laboratory</li> <li>• <b>Multi-Barrier Treatment Systems for Using Produced Waters in Irrigation Applications</b>              Jon Brant, Wyoming Center of Excellence in Produced Water</li> <li>• <b>Process Water Reuse for Industrial Manufacturers</b>              Thalia Aoki, Cambrian Innovation</li> </ul>	<p><b>Class I Underground Injection Control</b>  <i>Moderator:</i> Hillary Young, Oklahoma Department of Environmental Quality</p> <ul style="list-style-type: none"> <li>• <b>Horizontal Injection Considerations: Pressure Rise and Area of Review</b>              Lewis Wandke, Petrotek</li> <li>• <b>Case Studies: Evaluating Well Integrity with Multi-Arm Caliper and Magnetic Resonance Logs</b>              Monte Markley, SCS Engineers</li> <li>• <b>State Panel</b> <ul style="list-style-type: none"> <li>○ Carrie Ridley, Kansas Department of Health and Environment</li> <li>○ Lindsay Taliaferro, Ohio Environmental Protection Agency</li> </ul> </li> </ul>
3:30 pm – 4 pm	<p><b>Networking Break with Exhibitors</b>          Take a break and then be sure to connect with our sponsors &amp; exhibitors in the Virtual Exhibit Hall. The Virtual Exhibit Hall features valuable bonus content provided by our sponsors. Don't forget to sign up for giveaways!</p>	

4 pm	<p><b>Conference Happy Hour / Groundwater Anthem</b></p> <p>Join us for an interactive and fun happy hour to engage with fellow attendees.</p> <p>Led by a world-class musician who has worked with international stars like Prince, Cher, Drake, Katy Perry and more, attendees will be guided through chord selection and collaborative lyric writing, centering on groundwater protection.</p> <p>Lyrical ideas are submitted using the Annual Forum messaging feature and are arranged by our musicians into a final song, which is performed with the group live, on-screen!</p>
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**Wednesday, September 30, 2020**

9 am	<p><b>Morning Grind Networking Events:</b></p> <p>Grab a coffee and join us for our morning meet up! These topical virtual discussion groups are a perfect opportunity to network and discuss top issues faced by you and others in your field.</p> <ul style="list-style-type: none"> <li>• <b>National Groundwater Monitoring Network</b> Moderated By: Daryll Pope, US Geological Survey</li> <li>• <b>Class VI Injection Roundtable Discussion</b> Moderated By: Kevin Frederick, Wyoming Department Of Environmental Quality</li> </ul>	
10 am – 11:30 am	<p><b>Seismicity: Regulatory Management &amp; Mitigation</b> <b>Moderator:</b> Paul Dubois, Railroad Commission of Texas</p> <ul style="list-style-type: none"> <li>• <b>EXCHANGE PROJECT - Potential Induced Seismicity Guide: A Resource of Technical and Regulatory Considerations Associated with Fluid Injection</b> Ed Steele, Ambiunt Environmental and Regulatory, LLC</li> <li>• <b>FSP Modeling and Its Use in the Permitting / Protested Hearing Process</b> Reed Davis, ALL Consulting</li> </ul>	<p><b>Groundwater Data Management</b> <b>Moderator:</b> Paul Jehn, GWPC</p> <ul style="list-style-type: none"> <li>• <b>Overview of WaterSTAR: GWPC's Data Management System for Groundwater Quantity and Quality</b> Dan Yates &amp; Joe Lee, GWPC</li> <li>• <b>Nebraska Department of Environment and Energy (NDEE) use of WaterSTAR: The Nebraska Groundwater Clearinghouse</b> Ryan Chapman/Dave Miesbach, NDEE</li> </ul>

	<ul style="list-style-type: none"> <li>• <b>Using Seismic Monitoring to Increase Permitted SWD Injection Rates in Texas</b> Nate Alleman, ALL Consulting</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Wyoming DEQ use of WaterSTAR for Groundwater Quality</b> Nicole Twing/Steve Girt, Wyoming DEQ</li> <li>• <b>Well Selection Criteria for Groundwater Monitoring in Alabama</b> Ann Arnold, MS, Geological Survey of Alabama</li> <li>• <b>Discussion</b></li> </ul>
11:30 am – 12 pm	<p><b>Networking Break with Exhibitors</b> Take a break and then be sure to connect with our sponsors &amp; exhibitors in the Virtual Exhibit Hall. The Virtual Exhibit Hall features valuable bonus content provided by our sponsors. Don't forget to sign up for giveaways!</p>	
12 pm – 1:30 pm	<p><b>Carbon Capture and Storage / Class VI Underground Injection</b> <i>Moderator:</i> Mark Bohrer, North Dakota Industrial Commission, Oil &amp; Gas Division</p> <ul style="list-style-type: none"> <li>• <b>Finding Geologic Storage Structures Using Artificial Intelligence</b> Hongyu Sun, Massachusetts Institute of Technology</li> <li>• <b>Case Study on Methods to Leverage Operational Data from Class II UIC Wells to Evaluate Class VI CO2 Injection Well Performance</b> Joel Sminchak, Battelle Energy Division</li> <li>• <b>Safe Geologic Storage of Captured CO2: Two Decades of DOE's Carbon Storage R&amp;D Program in Review</b> Darin Damiani, US Department of Energy</li> </ul>	<p><b>Exploring the UIC and NPDES Program Nexus</b> <i>Moderator:</i> Marty Link, Nebraska Department of Environment &amp; Energy</p> <ul style="list-style-type: none"> <li>• <b>Evaluation of Ground Water Discharge Impacts on Surface Waters in Montana</b> Chris Boe, Montana DEQ</li> <li>• <b>Oklahoma DEQ, ASR Rules</b> Shellie Chard, Oklahoma DEQ</li> <li>• <b>To Be (a Point Source) or Not To Be (a Point Source): What the Supreme Court's County of Maui Decision May Mean for Clean Water Utilities</b> Amanda Aspatore, National Association of Clean Water Agencies (NACWA)</li> </ul>

1:30 pm – 2 pm	<p><b>Networking Break with Exhibitors</b></p> <p>Take a break and then be sure to connect with our sponsors &amp; exhibitors in the Virtual Exhibit Hall. The Virtual Exhibit Hall features valuable bonus content provided by our sponsors. Don't forget to sign up for giveaways!</p>	
2 pm – 3:30 pm	<p><b>Class II Injection</b></p> <p><b>Moderator:</b> Todd Boesiger, Nebraska Oil and Gas Conservation Commission</p> <ul style="list-style-type: none"> <li>• <b>Enhanced Evaporation Technologies – An Effective Tool to Hedge Against Regulatory Driven Reductions in Injection Rates</b> Mark Faucher, ALL Consulting</li> <li>• <b>Understanding the Injection Strategy and Formation Capacity Variation</b> Omar Abou-Sayed, Advantek Waste Management Services, LLC</li> <li>• <b>Overview of Recent Class II UIC State Peer Reviews</b> Mike Nickolaus, GWPC</li> </ul>	<p><b>Source Water Protection: Current Opportunities</b></p> <p><b>Moderator:</b> Duane LeVangie, Massachusetts Department of Environmental Protection</p> <ul style="list-style-type: none"> <li>• <b>Source Water Protection and the Farm Bill</b> Jimmy Bramblett, National Resources Conservation Service</li> <li>• <b>Source Water Protection: Leveraging New (&amp;Old) Resources for Planning and Implementation</b> Karen Wirth, US Environmental Protection Agency</li> <li>• <b>Implementation of New Source Water Protection Efforts in Ohio (NRCS, asset management, PFAS, SWAP investments)</b> Amy Klei, Ohio EPA</li> </ul>
4 pm	<p><b>Annual Forum Happy Hour – Wind Down</b></p> <p>Engage with fellow attendees as we wrap up a successful 2020 Annual Forum with our closing Happy Hour networking event.</p> <p>Don't forget to register by Sept. 4 to receive your Ultimate Experience Box filled with surprises to enjoy while attending the Forum.</p>	

**Thursday, October 1, 2020 – Workshops & Special Meetings**

10 am – 11:30 am	<p data-bbox="478 233 1362 261"><b>WaterSTAR Workshop – Data Management Solutions for Water Agencies</b></p> <ul data-bbox="527 342 1577 802" style="list-style-type: none"><li data-bbox="527 342 1226 370">• <b>Continuation of Discussion from Wednesday’s Session</b></li><li data-bbox="527 415 835 477">• <b>WaterSTAR Overview</b> Paul Jehn GWPC</li><li data-bbox="527 522 1577 584">• <b>The Link Between States and the USGS National Groundwater Monitoring Network</b> Joe Lee GWPC</li><li data-bbox="527 630 1041 691">• <b>RBDMS WellFinder App v3.0 Overview</b> Joe Lee, GWPC</li><li data-bbox="527 737 1230 799">• <b>New Mexico Produced Water Management and Reuse</b> Mark Layne GWPC</li></ul>
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