**GWPC Virtual Conference Agenda**  
(All Events: Central Time Zone)

### Monday, Sept. 28, 2020

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<tr>
<th>Time</th>
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| 1:30 pm – 2 pm | **Annual Forum Orientation**  
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. |
| 2:30 pm – 3 pm | **New Attendee Orientation**  
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. |

### Tuesday, Sept. 29, 2020

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| 9 am – 9:50 am | **Morning Grind Networking Events:**  
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.  
- **Class V Injection**  
  Moderated by: Dan Yates, GWPC  
- **Class II Injection Roundtable Discussion**  
  Moderated by: Dylan Rose-Cross, New Mexico Oil Conservation Division |
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| 10 am – 11:30 am | **General Session**  
  - Welcome and Conference Overview  
    Jon Kenning, Montana DEQ, Incoming GWPC Board President  
  - Updates from Federal Partners  
    Shawn Bennett - Deputy Assistant Secretary for Oil and Natural Gas, U.S. Department of Energy  
    Dave Ross - Assistant Administrator for the Office of Water, U.S. Environmental Protection Agency (Invited)  
    Jennifer McLain – Director, Office of Ground Water & Drinking Water, U.S. Environmental Protection Agency |
| 12 pm – 1:30 pm | **Produced Water: State & National Initiatives**  
  **Moderator:** Shellie Chard, OK DEQ / John Baza, Utah DNR  
  - Task Force Update  
    Shellie Chard, Oklahoma DEQ / GWPC Task Force Co-Chair  
    John Baza, Utah DNR / GWPC Task Force Co-Chair  
  - Trends in Produced Water Reuse - National Initiatives, Standards, and Markets  
    Mike Hightower, New Mexico Produced Water Research Consortium  
  - Bureau of Reclamation Produced Water Research  
    Katie Guerra, US Bureau of Reclamation  
  - Promoting Beneficial Reuse of Produced Water Through Research  
    Ashwin Dhanasekar, The Water Research Foundation  
  - Aquifer Storage & Recovery, Managed Aquifer Recharge, Enhanced Aquifer Recharge  
    **Moderator:** Chi Ho Sham, ERG  
    - GWPC ASR / MAR Workgroup Overview  
      Lorrie Council, Texas Council on Environmental Quality  
      Karen Feret, U.S. Environmental Protection Agency  
      Chi Ho Sham, ERG  
    - Evaluating Surface water and Groundwater Network in Red Butte Watershed to Obtain Sustainable Groundwater Yield and Availability  
      Saeid Masoudiashtiani, PhD Candidate, Utah State University  
    - Provo Aquifer Storage and Recovery – From Planning to Pilot  
      Jeff Davis, PE, Barr Engineering  
      Lorrie Council & Carol Dye, Texas Council on Environmental Quality |
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| 1:30 pm – 2 pm | **Networking Break with Exhibitors**  
                    Take a break and then be sure to connect with our sponsors & 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! |
| 2 pm – 3:30 pm | **Water Reuse: Research Showcase**  
                      **Moderator:** Lloyd Hetrick, East Shore Investments, LLC  
                      • Implications of Regional Produced Water Use in Gasoline Production Water Footprint  
                        May Wu, Ph.D., Argonne National Laboratory  
                      • Multi-Barrier Treatment Systems for Using Produced Waters in Irrigation Applications  
                        Jon Brant, Wyoming Center of Excellence in Produced Water  
                      • Process Water Reuse for Industrial Manufacturers  
                        Thalia Aoki, Cambrian Innovation  
                      **Class I Underground Injection Control**  
                      **Moderator:** Hillary Young, Oklahoma Department of Environmental Quality  
                      • Horizontal Injection Considerations: Pressure Rise and Area of Review  
                        Lewis Wandke, Petrotek  
                      • Case Studies: Evaluating Well Integrity with Multi-Arm Caliper and Magnetic Resonance Logs  
                        Monte Markley, SCS Engineers  
                      • State Panel |
| 3:30 pm – 4 pm | **Networking Break with Exhibitors**  
                    Take a break and then be sure to connect with our sponsors & 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! |
| 4 pm          | **Conference Happy Hour / Groundwater Anthem**  
                    Join us for an interactive and fun happy hour to engage with fellow attendees.  
                    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.  
                    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! |
### Morning Grind Networking Events:

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.

- **National Groundwater Monitoring Network**  
  Moderated By: Daryll Pope, US Geological Survey

- **Class VI Injection Roundtable Discussion**  
  Moderated By: Kevin Frederick, Wyoming Department Of Environmental Quality

### 10 am – 11:30 am

#### Seismicity: Regulatory Management & Mitigation

*Moderator:* Paul Dubois, Railroad Commission of Texas

- **EXCHANGE PROJECT - Potential Induced Seismicity Guide: A Resource of Technical and Regulatory Considerations Associated with Fluid Injection**  
  Ed Steele, Exchange Induced Seismicity Workgroup Member

- **FSP Modeling and Its Use in the Permitting / Protested Hearing Process**  
  Reed Davis, ALL Consulting

- **Using Seismic Monitoring to Increase Permitted SWD Injection Rates in Texas**  
  Nate Alleman, ALL Consulting

#### Groundwater Data Management

*Moderator:* Paul Jehn, GWPC

- **Overview of WaterSTAR: GWPC’s Data Management System for Groundwater Quantity and Quality**  
  Dan Yates & Joe Lee, GWPC

- **Nebraska Department of Environment and Energy (NDEE) use of WaterSTAR: The Nebraska Groundwater Clearinghouse**  
  Ryan Chapman/Dave Miesbach, NDEE

- **Wyoming DEQ use of WaterSTAR for Groundwater Quality**  
  Nicole Twing/Steve Girt, Wyoming DEQ

- **Well Selection Criteria for Groundwater Monitoring in Alabama**  
  Ann Arnold, MS, Geological Survey of Alabama

- **Discussion**
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<td>Networking Break with Exhibitors</td>
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<td>12 pm – 1:30 pm</td>
<td>Carbon Capture and Storage / Class VI Underground Injection</td>
<td><strong>Moderator:</strong> Mark Bohrer, North Dakota Industrial Commission, Oil &amp; Gas Division  &lt;br&gt;  - Finding Geologic Storage Structures Using Artificial Intelligence  &lt;br&gt;  Hongyu Sun, Massachusetts Institute of Technology  &lt;br&gt;  - Case Study on Methods to Leverage Operational Data from Class II UIC Wells to Evaluate Class VI CO2 Injection Well Performance  &lt;br&gt;  Joel Sminchak, Battelle Energy Division  &lt;br&gt;  - Safe Geologic Storage of Captured CO2: Two Decades of DOE’s Carbon Storage R&amp;D Program in Review  &lt;br&gt;  Darin Damiani, US Department of Energy</td>
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<td>Exploring the UIC and NPDES Program Nexus</td>
<td><strong>Moderator:</strong> Marty Link, Nebraska Department of Environment &amp; Energy  &lt;br&gt;  - Evaluation of Ground Water Discharge Impacts on Surface Waters in Montana  &lt;br&gt;  Chris Boe, Montana DEQ  &lt;br&gt;  - Oklahoma DEQ, ASR Rules  &lt;br&gt;  Shellie Chard, Oklahoma DEQ  &lt;br&gt;  - EPA, Presenter TBA</td>
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| 2 pm – 3:30 pm | **Class II Injection**<br><br>*Moderator:* Todd Boesiger, Nebraska Oil and Gas Conservation Commission  
  • Enhanced Evaporation Technologies – An Effective Tool to Hedge Against Regulatory Driven Reductions in Injection Rates  
    Mark Faucher, ALL Consulting  
  • Understanding the Injection Strategy and Formation Capacity Variation  
    Omar Abou-Sayed, Advantek Waste Management Services, LLC  
  • Overview of Recent Class II UIC State Peer Reviews  
    Mike Nickolaus, GWPC |
| Source Water Protection: Current Opportunities  
*Moderator:* Duane LeVangie, Massachusetts Department of Environmental Protection  
  • Source Water Protection and the Farm Bill  
    Jimmy Bramblett, National Resources Conservation Service  
  • Source Water Protection: Leveraging New (&Old) Resources for Planning and Implementation  
    Karen Wirth, US Environmental Protection Agency  
  • Implementation of New Source Water Protection Efforts in Ohio (NRCS, asset management, PFAS, SWAP investments)  
    Amy Klei, Ohio EPA |
| 4 pm          | **Annual Forum Happy Hour – Wind Down**  
  Engage with fellow attendees as we wrap up a successful 2020 Annual Forum with our closing Happy Hour networking event.  
  Don’t forget to register by Sept. 4 to receive your Ultimate Experience Box filled with surprises to enjoy while attending the Forum. |
| Thursday, October 1, 2020 – Workshops & Special Meetings | **WaterSTAR Workshop – Data Management Solutions for Water Agencies** |