**32nd Annual PWS Seminar Agenda**
**February 8-9, 2022**

**DAY 1**

7:00-8:00 **Registration and breakfast**

8:00-8:10 **President's welcome**

8:10-8:40 **Keynote address**

8:40-10:00 **Session 1 (Co-chaired by Xandra Turner and Chip Westaby)**
*Gulf of Mexico seawater injection applications*
Lauren Flores, Chevron

*Simplifying produced water de-oiling*
Steinar Asdahl, Stauper Offshore

*Case study: Innovative water treatment solutions offshore*
Jarid Hugonin, Baleen Process Solutions

*Seabox & SWIT: Subsea water management and treatment*
Ojonimi Samuel Haruna, NOV

10:00-10:30 **Coffee break**

10:30-11:10 **Session 2 (Co-chaired by Morris Hoagland and Ben Samuels)**
*Integrated produced water management*
Hani Al-Khalifa, Saudi Aramco

*Efficient carbon dioxide capture and utilization using high-TDS produced water*
Brian Mueller, B2K4 Consulting

11:10-11:50 **Session 3 (Co-chaired by Ben Samuels and Dan Shannon)**
*Experimental investigation of robust polymer gels for blocking unwanted water production in carbonate formations*
Mohammed Alabdrabalnabi, Saudi Aramco

*Investigation of the flocculation and dewatering behavior of kaolinite suspensions by dual-functional nanoparticles*
Taha Karaki, Department of Chemical and Petroleum Engineering – University of Calgary

11:50-12:50 **Lunch**

12:50-1:50 **Operator's panel: Conventional**

1:50-2:50 **Session 4 (Co-chaired by Jay Keener and Morris Hoagland)**
*Optimizing water treatment systems with inlet water monitoring*
Chip Westaby, Turner Designs Hydrocarbon Instruments

*Crystal Clearwater Resources' low-temperature distillation solution*
Scott Carson, Crystal Clearwater Resources

*Produced water reclamation using novel ceramic plate UF membrane technology*
Dirk Martin, Apateq

2:50-3:30 **Session 5 (Co-chaired by Lisa Henthorne and Jay Keener)**
*Leveraging DOE's PARETO Platform to optimise produced water management at Olympus Energy*
Markus Drouven, US Department of Energy

*DOE's PARETO Platform for multi-objective optimization of produced water management*
Andres Calderon, National Energy Technology Laboratory

3:30-4:00 **Coffee break**

4:00-5:20 **Session 6 (Co-chaired by Rob Bruant and Ivan Morales)**
ESG, sustainability and operational excellence in produced water management
Kelly Bennett, B3 Insight

*Economic, social and environmental cost-benefit modeling of fit-for-purpose produced water treatment and reuse*
Vincent Tidwell, Sandia National Laboratories

*Field demonstration of LM-HT thermal evaporation to generate high-density brine from flowback water*
Michael Grossman, Heartland Water Technology

*Solar radiance for enhancement of pollution plume controlled enhanced evaporation for volume reduction in best management practices of injection-induced seismicity*
Robert Ballantyne, RWI Enhanced Evaporation

5:20-6:20 **ESG & Sustainability panel**

6:30-7:30 **Cocktail hour**

**DAY 2**

7:00-8:00 **Registration and breakfast**

8:00-8:30 **Colin Tyrie Scholarship recipient presentation**

8:30-9:30 **Keynote address**

9:30-10:30 **Session 7 (Co-chaired by Morris Hoagland and Steve Roeder)**
*US EPA National Water Reuse Action Plan and state collaboration on fit-for-purpose produced water treatment and reuse*
Mike Hightower, New Mexico Produced Water Research Consortium

*Tapping into the nanoscale for boron removal and produced water beneficial reuse*
Khatera Hazin, CarboNet

*Produced Water quality characterization in the New Mexico Permian Basin*
Pei Xu, New Mexico State University

10:30-11:00 **Coffee break**

11:00-12:00 **Operator's Panel: Unconventional**

12:00-1:00 **Lunch**

1:00-2:00 **Roundtables**

1. *High-density, HDPE-lined produced/flowback water evaporation ponds*
Neil Nowak, SCS Engineers

2. *Suitability of water treatment chemicals for produced water remediation: A data-driven approach*
Clifford Aniakor, Rivers State University

3. *Membrane distillation for produced water beneficial reuse: Progress and future outlook*
Tijjani El-Badawy, PhD student

4. *Comparative study of permanganate and peroxide for produced water treatment*
Lyndon Berwick, Carus

5. *Pilot-scale testing of membrane distillation for produced water desalination in various shale plays*
Ritesh Dinkar Pawar, University of Pittsburgh

6. *Water's digital transformation*
James Burke, Barreleye

7. *Produced water line-up enhanced de-oiling in a sustainable way with Mokveld low-shear Typhoon® Valve System*
Daniel Vecchio, Mokveld USA

8. *Remote monitoring with the Mustang Extreme graphic automation pit monitoring system*
Chad Lavender, Mustang Extreme Environmental

9. *Subsurface aeration*
Conner Monk, Mustang Extreme Environmental

10. *Remote pipeline monitoring made simple*
Joshua Ito, TOKU Corp

2:00-3:00 **Session 8 (Co-chaired by Brent Halldorson and Lisa Henthorne)**

*A novel and rapid approach to evaluating the effectiveness of produced water solidification and stabilization*
Priscyla Marquez, Department of Civil, Architectural and Environmental Engineering – University of Texas at Austin

*Evaluation of produced water transport options*
Assaad Sakr, CORE Linepipe

*Waste to resource: HyQ's answer for produced water*
Jared Boehs, HyQ Technologies

3:00-3:30 **Coffee break**

3:30-4:10 **Session 9 (Co-chaired by Ben Samuels and Brent Halldorson)**
*Case Study: Integrated water facility design and efficiency for produced water injection and recycle*
Paul Englram, Reclaim Water Services

*Case study: Innovative water treatment solutions for reinjection*
Tony Mossa, Baleen Process Solutions

4:10-5:10 **Recycle/reuse panel**