Water management is a multi-disciplinary subject that needs an integrated approach. This 2.5-day workshop aims to serve as an open platform to discuss how to achieve economical and operational excellence. Water management is a subject that involves multiple disciplines such as reservoir, topside and well integrity. Therefore, in oilfield operations, it needs to be performed in an integrated way. The only way to achieve the best solutions, in operational and economical terms, is to look at problems like: water treatment, water quality for both injection and disposal, reinjection of produced water, increase in water cut and all the relevant environmental challenges faced by the oil industry as parts of a puzzle that only works as a whole. Water management is more critical in offshore environment, due to small areas adding large equipment to treat injected and produced water and the higher costs of logistics, drilling, and workover. This workshop will evaluate ways to achieve better economical and operational results and optimize cost, through discussions and lessons learned on reservoir management, flow assurance, water treatment, materials, and environmental regulations.

Thank You to Our Gold Sponsor

CGC
**Tuesday, 28 June 2022**

0700–0800  
Registration and Welcome Coffee

0800–0810  
Chairpersons Welcome and Safety Moment

0810–0840  
Keynote Speaker: Pierre Pedenaud, TotalEnergies

0840–1010  
Session 1: Offshore Produced Water Treatment Future Challenges

Session Chairs: Aline Machado, Petrobras  
Wally Georgie, MaxOil Consultancy

- Subsea Produced Water Treatment—Reaching Acceptable PPM Level for Discharge to Sea?  
Gloria Lucas, NOV
- A Quantified Approach to Produced Water System Design  
Andrew Watson, BP; James Vanjo-Carnell, NOV
- Challenges Review for Offshore Produced Water Treatment  
Pierre Pedenaud, TotalEnergies

1010–1030  
Coffee Break

1030–1200  
Session 2: Flow Assurance Aspects of Produced Water

Session Chairs: Luis Quintero, Halliburton  
Francisca Ferreira, Retired - Petrobras/ UFF

- Scale Management: An Operational Overview  
Katia Regina, Petrobras
- The Tipping Point—Understanding How Well Design Can Influence the Rate of Scale Deposition  
Neil Goodwin, Scaled Solutions Ltd
- Enabling a Chemical Monitoring Program with Advanced Residuals Technology  
Tracey Jackson, Baker Hughes

1200–1330  
Hotel Restaurant  
Networking Lunch

1330–1500  
Session 3: Produced Water and EOR Handling Issues

Session Chairs: Diego Perez, YPF  
Sezai Ucan, Libertad Energia

- Polymer Breakthrough Challenges During and After Polymer Flooding  
Mahdi Kazempour, ChampionX
- Water: The Key to Successful EOR Projects  
Eric Delamaide, EOR Alliance IFP Canada
- Desalination of Back Produced EOR Water to Reduce Polymer Consumption  
Mayra Goldman, CAPSA-Capex; Claudio Augusto Croce, CAPSA-Capex

1500–1700  
Session 4: Produced Water Re-Injection Versus Treatment and Discharge

Session Chairs: Arild Moen, Equinor  
Marie-Hélène Klopfner, IFPEN France

- Technologies for Produced Water Treatment Aiming Re-injection  
Alosio Euclides Orlando Jr, Petrobras
- Removing Solids with Hydrocyclone Desander for Produced Water Re-injection  
Ronaldo Ribeiro, Exterran
- Reservoir Souring as a Driver for Choice of Injection Water Quality  
Anthony F. Mitchell, Equinor

1700–1830  
Paraty ABC Foyer  
Welcome Reception

**Wednesday, 29 June 2022**

0800–0930  
Session 5: Field Case Histories and Lessons Learned

Session Chairs: Arild Moen, Equinor  
Lauren Flores, Chevron

- Treatment of Produced Water to Meet EOR and Injection Criteria—Best Practices and Lessons Learned  
Matthew Goyisch, Richard Veroude and Xandra Turner, PE, Mycelx
- Challenge of Produced Water Re-injection in Roncador Field  
Fernando Freitas de Carvalho, Petrobras
- Safe and Efficient Injection of Produced Water: A Cross Disciplinary Challenge—From Geological Understanding to Topside Water Treatment  
Frode Uriansrud, Equinor

0930–1000  
Paraty ABC Foyer  
Coffee Break

1000–1130  
Session 6: Environmental Regulations and Requirements

Session Chairs: Lauren Flores, Chevron  
Ming Yang, TÜV SÜD National Engineering Laboratory

- Water Treatment Failure Analysis Using Machine Learning Techniques  
Martin Morles, Dr. Cheng Chen, Lauren Flores, Chevron
- Development of Correlations between Total Oil and Grease (TOG) Measurement Methods for Produced Water Management  
Raquel Cavalcanti Galvão, Firjan; Vincinius Ferraco Brant, Firjan; Rogerio Mesquita de Carvalho, Petrobras; Ming Yang, TÜV SÜD National Engineering Laboratory; Antonio Augusto Fidalgo Neto, Firjan; Sergio Noboru Kuriyama, Firjan

Technical Agenda  As of 5 June 2022  
All technical sessions will be held at Paraty ABC on the first floor, one level above the front desk.
Thursday 30 June 2022

0800–0830
Keynote Speaker: Ahmed Abou Sayed, Advantek

0830–1000
Session 9: Trend with New Technologies in Water Treatment and Monitoring
Session Chairs: Marie-Hélène Klopffer, IFPEN France
Ming Yang, TÜV SÜD National Engineering Laboratory

- Enhanced Oil Removal Technologies: Pilot tests Upstream Brasil
  Thais Mourao, Veolia; Aloisio Euclides Orlando Junior, Petrobras

- Water Soluble Organics: Identification, Treatment, and Removal for Compliant Overboard Water Discharge
  Bruce Adams, ChampionX

- Holistic Approach to Water Treatment Optimization—Measurement Requirements, Technologies and Benefits
  Chip Westaby, Turner Designs Hydrocarbon Instruments

1000–1030 Paraty ABC Foyer
Coffee Break

1030–1130 Paraty ABC
Session 10: Injection Water Quality
Session Chairs: Claudio Furtado, Petrobras
Paul Evans, Chevron

- Enabling Maximum Utilization of FPSO Hydrocarbon Processing Capacity, by Complementing with Subsea Water Treatment and Injection System
  Torbjørn Hegdal, NOV

- Injection Water Quality from a Petroleum Technology Perspective
  Tony Mitchell, Equinor

1130–1200 Paraty ABC Foyer
Workshop Wrap-Up
General Information

Accessibility
Our events and functions are accessible to all attendees with wheelchairs. If you require special arrangements, please contact our staff at the registration desk.

Alcohol Policy
SPE recognizes the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly.

Commercialism
In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the affiliation of the presenter(s).

Continuing Education Units
Attendees will receive 2.0 CEUs. One CEU equals 10 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of an SPE workshop. A permanent record of a participant’s involvement and awarding of CEUs will be maintained by SPE.

Documentation
Following the workshop, a URL containing released copies of the workshop presentations will be available to all attendees.

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As a courtesy to the speakers and your fellow registrants, please turn off all electronic devices during presentations.

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Please wear your badge at all times. It is a courtesy to your fellow registrants, speakers, and sponsors.

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Workshop Format
Workshops maximize the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices.

Many of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and members of the press are not invited to attend.

Survey
Please take a moment and let us know your thoughts on this event!
Use your mobile device http://go.spe.org/22ARIOAttendee