



Integrated Intelligent Well Completion

21-23 September 2022 | JW Marriott Hotel | Rio de Janeiro, Brazil

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Petrobras

Eduardo Schnitzler, Petrobras

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Brett Bouldin, Wireless
Instrumentation Systems

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Edgar Romero, ExxonMobil

Kegan Rodrigues, BP

Roger Savoldi Roman, Petrobras

Muhammad Sofyan, TotalEnergies

Nowadays, economic scenario imposes new challenges for cost reduction, safety improvements and production optimization especially in deepwater projects. Well design have to achieve another level of operational efficiency and safety through reducing complexity, increasing flexibility and improving availability. In the Brazilian Pre-Salt projects, Intelligent Well Completions (IWC) have been used since the early conceptual phases in order to deliver a proper reservoir and production management in the direction of exploiting the full potential of these large thickness reservoirs. Pre-Salt fields already have close to 200 IWC systems installed, being one of the areas of most intensive use of IWC systems in deepwater. The well designs and intelligent well technologies are evolving to electric to add flexibility to the upcoming challenges but how far do we have to go to capture the true value from these reservoirs?

This workshop presents a unique chance to review the use of IWC in Pre-Salt fields as wells as in other parts of the world, sharing knowledge, experiences and challenges from around the globe. Subsea and topside integration will also be discussed, together with the strategies and readiness for future IWC systems. The state-of-the-art and the way-forward for the use of this technology on the future is also part of the program. The interaction with experienced and recognized professionals, companies and institutions around the world set a single opportunity for participants to improve their knowledge, discuss the future of this technology and establish networking.

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Who We Are

SPE is the largest individual member organization serving managers, engineers, scientists and other professionals worldwide in the upstream segment of the oil and gas industry.



Society of Petroleum Engineers

Wednesday, 21 September

0700–0800

Registration Check-in
Continental Breakfast

0755–0800

Chairperson's Welcome and Introduction

0800–0830

Keynote: Innovation at scale in Petrobras

Juliano Dantas, Chief Digital Transformation and Innovation
Executive Officer

0830–1000

**Session 1: Production and Reservoir Management: IWC Design
Into Perspective**

Session Chairs: Laurence Costa, Equinor
Stephen Dyer, Schlumberger

- Learning Journey of DHFC Application in ACG Multi Zone Water Injection
Dzu H Nguyen, BP
- Advanced Completions Applied to Improve Gas Management in Bacalhau
Elysio Nogueira, Equinor
- IWC Evaluation for High Rate Unconsolidated Sandstone Applications
Edgar Romero, ExxonMobil

1000–1030

Coffee Break

1030–1200

**Session 2: Production and Reservoir Management: IWC
Application Results**

Session Chairs: Alexandre Emerick, Petrobras
Sigurd Myge Erlandsen, Equinor

- Importance of Intelligent Completion in Production Management: Cases and Challenges
Noe Alles, Petrobras
- World First All-Electric Intelligent Completion System with Permanent Monitoring to Evaluate Injection Performance in a Mature Injector Well
Walter Sánchez León, Ecopetrol
- AICD Applications, Field Experiences and Future Potential
Geir Elseth and Lene Amundsen, Equinor

1200–1330

Lunch

1330–1500

Session 3: Delivering IWC in Brazilian Pre-Salt

Session Chairs: Roger Savoldi Roman, Petrobras
Desiderio Rodrigues, Halliburton

- 100th Intelligent Completion Installation: A Milestone In Brazilian Pre-Salt Development
Eduardo Schnitzler, Petrobras
- Delivering Openhole Intelligent Well Completion in Brazilian Pre-Salt
Davi Valle, Petrobras
- Delivering Outstanding Solutions for Intelligent Completions
Andre Tocchetto, Halliburton

1500–1530

Coffee Break

1530–1700

Session 4: Delivering IWC in Projects Around the Globe

Session Chairs: Fernando Kirnbauer, Baker Hughes
Suresh Jacob, Saudi Aramco

- Electrical Completion Derisking, Delivery and Operational Aspects
Thomas Wakerley, Schlumberger
- Rigless Intervention Solutions for Intelligent Multilateral Well Completions
Justin Roberts, Halliburton
- The Electric Completion and Sand Control
Herb Dhuett, Baker Hughes

1700–1830

Networking Reception

Thursday, 22 September

0730–0800

Continental Breakfast

0800–0930

Session 5: IWC Subsea and Topside Integration

Session Chairs: Akshay Kalia, Schlumberger
Eduardo José de Jesus Coelho, Petrobras

- Dry Tree and Electrification Interfacing—Modularity, Scale-Ability, Efficiency
Justin Blair, Schlumberger
- Automation of the Subsurface—Challenges and Reality
Eduardo Jose Coelho, Petrobras
- Progression of IWC integration into Subsea X-trees
Edgar Romero, ExxonMobil
- Subsea Integration Options for IWC Electronics—Current Solutions and Challenges of Electrification
Robin Slater, Aker Solutions

0930-1000

Coffee Break

1000-1130

Session 6: Electrification: How Do We Make it Happen?

Session Chairs: Olaf Hedberg Sissener, AkerBP
Alistair Roy/Steve Coxhill, BP

- **Managing the Mindset and Real Risks of Transitioning Hydraulic Controls to Electric Controls**
Manoel Feliciano da Silva Junior, Petrobras
- **Field Vision—Where the Step Change Could Lead Us in the Future and Why Now**
Garrett Dawe, Aker BP
- **How Electric Systems Differ From Hydraulic and Why They Are Considered More Reliable**
Stephane Hiron, Schlumberger

1130-1300

Lunch

1300-1430

Session 7: Digital Transformation: Creating Value With IWC

Session Chairs: Clifford Allen, Halliburton
Stephen Dyer, Schlumberger

- **Delivering Value Through Smart Well**
Adegbenro Oguntimehin, Shell International Exploration and Production Inc.
- **Intelligent Completion Optimization under Varying Data Architecture**
Suresh Jacob, SaudiAramco
- **IWC Utilization Global Overview**
Edgar Romero, ExxonMobil

1430-1500

Coffee Break

1500-1630

Session 8: Assessing IWC Reliability

Session Chairs: Brett Bouldin, Wireless Instrumentation Systems (WINS)
Don Hopmann, Weatherford

- **Reliability Assurance in Electrically Enabled Completions Products**
Steven Buchanan, Schlumberger
- **Increased IWC Reliability through Lifecycle Management**
Herb Dhuet, Baker Hughes
- **An Integrated System and Process for Reliability Assessment of Intelligent Completions**
Pankaj Shrivastava, Halliburton
- **How Can Reliability Add Value to Well Operations**
Danilo Colombo, Petrobras

Friday, 23 September

0730-0830

Continental Breakfast

0830-0930

Session 9: IWC lifecycle Considerations—Maintenance, Workovers, Abandonment

Session Chairs: Edgar Eduardo Romero, ExxonMobil
Muhammad Sofyan, TotalEnergies

- **Using MPD Techniques in Challenging Heavy Workover Operations in Wells with IWC**
Roger Savoldi, Petrobras
- **Ensuring Connectivity in IWCs Throughout the Well Life Cycle**
Rashid Musayev, Schlumberger

0930-1000

Coffee Break

1000-1200

Session 10: Future IWC Designs and Technologies

Session Chairs: Leonardo Carvalho, Shell Brasil
Pedro Henrique Marins dos Santos Sousa, Petrobras

- **Sandface Surveillance—Aspects Associated with Discrete and/or Distributed Measurements Across the Formation Face**
Fernando Kirnbauer, Baker Hughes
- **Future Considerations for Wireless Telemetry, Power Generation, and Energy Storage**
Brett Bouldin, Wireless Instrumentation Systems (WINS)
- **The Future of Composite Materials in Tubing Applications**
Winston Carneiro e Gama
Cedric Hernalsteens, Petrobras
- **Well Equipment Testing—Facilities Overview and Capabilities at CIMATEC PARK**
Marcio Araujo, SENAI CIMATEC

Q&A

You will have the option to submit your questions during Q&A using PollEverywhere!

Use your mobile device:



<https://pollev.com/speprogram>



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Accessibility

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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.

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Documentation

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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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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**



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