Technical Program: Tuesday, 24 October

All technical sessions are located in Pavilion 5, second floor.

0900–1030 Main Auditorium

Opening Session

MODERATOR: Jorge Camargo, IBP

SESSION CHAIRPERSONS:
João Carlos de Luca, OTC Brasil General Chairperson
Wafik Beydoun, OTC Chairman
Marcelino Guedes, Rio Pipeline Chairperson
Thomas Loughlin, ASME Executive Director
Pedro Parente, Petrobras CEO
Decio Odone, ANP General Director
Fernando Coelho, Minister of Mines and Energy

KEYNOTE SPEAKER: Lord John Browne, Consultant

1030–1300 Room 204 B

Drilling 1

SESSION CHAIRPERSONS:
Carlos Pedroso, Queiroz Galvao Exploration & Production SA
Felipe Freitas, Stress Engineering Services Inc

1030 28029
An “All Electric” BOP Control System: A Game-Changing Technology
J. Dale, M. Rod, Electrical Subsea & Drilling AS; T.B. Howes, Well Design Solutions LLC

1055 281604
Risk Mitigation on Deepwater Drilling Based on 3D Geomechanics and Fit-For-Purpose Data Acquisition
C.A. Pedroso, J.B. Salies, Queiroz Galvao Exploration & Production SA; B. Holzberg, M. Frydman, J. Pastor, Schlumberger

1120 28081
Challenges of Drilling Operations in Extreme Water Depths
J. Capeto, M.J. Stahl, K. Bhalla, D.J. Kluk, Stress Engineering Services, Inc.

1145 28112
Soil Modelling Calibration Using Measured Data

1210 28006
Simultaneous Effect of Salt Creep and Dissolution in Caliper Prediction During Drilling Operations

1235 28069
Geomechanical Model and Wellbore Stability Analysis of Brazil’s Pre-Salt Carbonates, a Case Study in Block BM-S-8
C.F. Da Silva, Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio); C. Rabe, Baker Hughes, a GE Company; S. Fontoura, Pontifícia Universidade Católica do Rio de Janeiro (PUC-Rio)

1030–1300 Room 204 A

Exploration

SESSION CHAIRPERSONS:
Andre Luiz Massa, Genesis Oil & Gas Consultants
Igor Viegas, Petrobras

1030 28152
Improved Ocean Current Estimation using a Seismic Streamer Model
J. Grindheim, IMT at Norw. Univ. of Life Sciences (NMBU), Norway; and Laboratório de Ondas e Correntes (LOC), UFRJ; I. Revhaug, Norwegian University of Life Sciences (NMBU); K. Welker, Geograf AS

1055 28089
Closed-Loop Field Development Under Geological Uncertainties: Application in a Brazilian Benchmark Case
D.M. Hidalgo, A.A. Emerick, Petrobras; P. Couto, J.L. Alves, Federal University of Rio de Janeiro

1120 28147
Salt Heterogeneities Characterization in Pre-salt Santos Basin Fields

1145 28001
Formation Oil Characterization in Oil-Based Mud Environments Using Blind Deconvolution in NMR Data
M. Barroso Fournier, H. Tomoto, R. Senne, Halliburton; A.C. Reis, Petrobras
# Technical Program: Tuesday, 24 October

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<td><strong>Flow Assurance</strong></td>
<td><strong>SESSION CHAIRPERSONS:</strong> Reda Bouamra, Onesubsea, Ricardo Camargo, Petrobras</td>
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| 1030–1300| Room 210     | 04      | **Regulation and Local Content**                                                            | **SESSION CHAIRPERSONS:** Eduardo Neiva, Petrobras, Elizabeth Creed, Kongsberg Underwater Technology Inc. |
|          |              |         | 1030 | 27994 | Field Decommissioning Obligations in Brazil: The Differences and Impacts of Current Methodologies for Concessions and Sharing Regimes in Light of Investment Attraction | F. Gaspar, K. Bilda, Shell Brasil                                                                          |
|          |              |         | 1055 | 27996 | Unitization Involving Non Contracted Area: Comparison Between Contractual Models | C.V. Da Silva, D.D. Bonolo, Petrobras                                                                  |
|          |              |         | 1120 | 28146 | Evaluation of Social and Economic Impacts of Local Content Management in Oil & Gas and Shipbuilding Industry in Brazil: An Application of Input-Output Analysis | S.R. Furtado, E.D. Junior, Petrobras; M.F. Ludovic, PUC-Rio                                             |
|          |              |         | 1145 | 28010 | Industrial Policy and Local Content: Brazil’s Pre-Salt Area Case | F.D. de Jesus, J. Gomes da Silva, T. Roltman, FGV Energia                                              |
|          |              |         | 1235 | 28076 | Multiphase Flow Measurement: Advantages and Brazilian Regulation | H.C. Saad, L.C. Ribeiro, ANP - Agencia Nacional Do Petroleo; M. Oliveira, UFF - Universidade Federal Fluminense |

| 1030–1300| Room 211     | 05      | **Special Aspects on Fluids Processing**                                                    | **SESSION CHAIRPERSON(S):** Darley Carrijo de Melo, Petrobras                                           |
|          |              |         | 1030 | 28097 | New Technologies For Cost Effective Offshore Compression Stations | S. Fatomi, G.F. Lurisci, D. Matina, M. Bigi, V. Bisio, Baker Hughes, a GE Company                        |
|          |              |         | 1055 | 28022 | Offshore Production Loop Decommissioning Using Filter Press and Oil Absorbent Media | G.A. Ebwanik, Halliburton                                                                               |
|          |              |         | 1145 | 28204 | The Use of Design of Experiments for Development of Flocculating Agents for Treatment of Crude Oil Emulsions | F. Rezende, R.B. Rabelo, P. Filho, Oxiteno S.A. Industria e Comercio                                    |
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**Topical Luncheon: Opportunities for the Oil Business in Brazil**

**SPEAKER:**

- Fernando Coelho, Minister of Mines and Energy
Technical Program: Tuesday, 24 October

All technical sessions are located in Pavilion 5, second floor.

1430–1700  Room 204 C  07

Completions

SESSION CHAIRPERSONS:
Augusto Hougaz, Petrobras
Felipe Freitas, Stress Engineering Services Inc

1430  28102
First Openhole Intelligent Well Completion in Brazilian Pre-salt
E. Schnitzler, L.F. Goncalvez, W.M. Ascanoe, F.F. Goncalves, R.S. Almeida, M. Marques, Petrobras

1455  27983
Cableless Intelligent Well Completion Development Based on Reliability

1520  27992
Production Experience of ICD/AICD for Heavy Oil at the Peregrino Field
S.V. Araujo, A. Bolliger, C. Pettan, S.M. Erlandsen, I.L. Leitao Junior, Statoil

1545  28040
Use of Autonomous Inflow Control Device (AICD) Within a Horizontal Gravel Pack Completion in a Depleted Reservoir Well
L. Netto, L. Xavier, G. Corona Cortes, R.F. Valinho, Halliburton

1610  28056
Intelligent Completions as a Key Technology in the Brazilian Pre-salt
D. Rodrigues, L.B. Minassa, R. da Silva Nunes, L. Costa, Halliburton

1635  28136
First O3 Zone Intelligent Completion in the Brazilian Pre-Salt: Design Considerations, Challenges and Lessons Learned
F. Del Vecchio, P. Maciel, F.J. Salom, J.V. Chagas, A.J. Ortiz, Baker Hughes, a GE Company

1430–1700  Room 210  08

Riser System and Pipelines

SESSION CHAIRPERSONS:
Rajiv Aggarwal, Consultant
Alex Dal Pont, Petrobras

1430  28101
Developments and Optimizations in the Pre-Salt Risers Systems: From Initial Technical Challenges up to Future Expectations

1455  28013
Technical Feasibility Study of Steel Catenary Risers for Pre-Salt Field Developments
R.M. Brito, L.L. Aguiar, V.G. Prado, Petrobras

1520  28084
Nemo Hybrid System - A Novel Field Joint Solution
N. Cunha, Shawcor (Pipeline Performance)

1545  28114
Pre-Lay of Flexible Risers in Lazy Wave Configuration in Pre-Salt Projects: Overcoming Technical Challenges and Enabling Installation

1610  28063
Planning and Execution of Pigging Procedure for Gas Pipeline
M.H. Carvalho, E. Rotava, Petrobras

1635  28054
Long Tiebacks for Life Extension of Existing Offshore Facilities - A Novel Solution for Flowline Wet Insulation
A. Rebello, Stress Engineering Services, Inc.; L. Alexander, L. Alexander Consulting LLC.
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| 1430–1700 Room 211 | **MPD & Fluid Technologies** | **SESSION CHAIRPERSONS:** Gleber Teixeira, Petrobras  
Thiago Fernandes, Total E&P  
**1430 27990** Evolution of Control Strategies To Minimize Pressure Fluctuation During Connections in MPD Deepwater Operations  
E. Grein, C. Dammenhauer, M. Cruz, F. Silva, ESSS; A.L. Martins, Q.S. Vanni, Petrobras; V. Ribeiro, M. Vega, Federal Rural University of Rio de Janeiro  
**1455 28139** MPC Successful Application in Deepwater Exploration: Case Study  
A. De La Cruz Sasso, Halliburton; T. Pinheiro Da Silva, P.R. Brand, Blade Energy Partners  
**1520 28049** Surface Plasmon Sensors for Fluid Analysis in Upstream Oil  
O. Monteiro, R. Suresh, A. Chandran, Baker Hughes Inc  
**1545 28130** Saving Capex on Further Development of Complex Mature Fields With MPD in Deep Water Drilling - Roncador Case  
O. Campos, Petrobras  
**1610 28025** New Fiber Technology to Improve Mud Removal  
| 1430–1700 Room 203 A | **New Technologies and Innovation Solutions for the New Oil & Gas Market** | **SESSION CHAIRPERSONS:** Marcelo Taulois, Scatec Solar Brasil  
**PANELISTS:**  
Sergio Sabedotti, GE Global Research  
Henri Houllevigue, Total  
David Ellis, KBR  
Udo Dengel, Air Liquide  
Vinicius Girardi Silva, ESSS | | |
| 1430–1700 Room 203 B/C | **New Alliances in the Subsea Market - What Operators Can Expect?** | **SESSION CHAIRPERSON:** Cristina Pinho, Petrobras  
**PANELISTS:**  
Luis Araujo, CEO, Aker Solutions  
Bradley Beiter, Executive Vice President Technology and R&D, TechnipFMC  
Don Sweet, Vice-President Integrated Solution and Sales, OneSubsea  
Jesus Grande, Latin America President, Baker Hughes, a GE Company | | |
| 1430–1700 Room 204 A | **Offshore EOR: Recovery Factor Optimization in Ultra Deepwater Fields** | **SESSION CHAIRPERSONS:** Stephen Goodyear, Shell  
Austin Boyd, Schlumberger  
**PANELISTS:**  
Joerg Meyer, Schlumberger  
Paulo Couto, Universidade Federal do Rio de Janeiro  
Philip Bogaert, Shell Brazil E&P  
Priscila Moczylower, Petrobras  
Christian Deplante, Total | | |
| 1430–1700 Room 207 | **Leadership Summit** | **SESSION CHAIRPERSONS:** Fernando Frimm, GustoMSC Inc.  
Carlos Fraga, GranEnergia  
**SESSION MODERATOR:** Renato Bertani, Barra Energia  
**PANELISTS:**  
Antonio Carlos C. Pinto, Petrobras  
Barbara Cavalcante, QGEP  
Paulo Couto, TechnipFMC  
Leonardo Bernardo, TechnipFMC  
Steve Balint, Shell  
Aline Pinho, ABS  
Segen Estefen, UFRJ  
Marcelo Igor Lourenço, UFRJ  
Carla Lacerda, ExxonMobil  
Diego Gracioso, Shell  
Milton Costa Filho, IBP | | |
## Technical Program: Wednesday, 25 October

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<td><strong>0930 28161</strong></td>
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<td>Uncertainty Analysis in Well Test Interpretation - The Conservation Principles</td>
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<td>L.K. Kubota, Petrobras</td>
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<td><strong>0955 27993</strong></td>
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<td>Optimizing Production of Santos Basin Pre-Salt Fields Through Sound Reservoir Management Practices</td>
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<td>NMR Petrophysics on Rocks Saturated with Alcohol: an Alternative Core Analysis Workflow</td>
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<td>H.C. Saad, ANP - Agencia Nacional Do Petroleo; L.C. Ribeiro, UFF - Universidade Federal Fluminense</td>
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<td>Application of a Methodology To Incorporate Probabilistic Data From two Technologies: Reservoir Simulation Models and 4D Seismic</td>
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<td>G.S. Assuncao, A. Davolio, D.J. Schiozer, University of Campinas (UNICAMP)</td>
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<td><strong>1110 28020</strong></td>
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<td>On the Use of Ocean Tide Model Driver, TMD, as a Filter to Recover Reservoir Signal from Well Test Pressure History</td>
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<td>E.A. De Oliveira, C.P. Junqueira, Petrobras</td>
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<td>How To Improve the Use of PDG Data on Injector Wells: A Temperature Build-Up Approach</td>
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### Control and Equipment

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<td>DC/FO A Lean and Powerful DC Subsea Control Infrastructure</td>
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<td>R. Michel, E. Bouvart, O. Courtois, M. Genot, G. Huchet, A. Lecroart, Alcatel Submarine Networks</td>
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<td>Standard Multiplexed Subsea Control Systems in the Brazilian Pre-Salt Projects</td>
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<td>A. Rabello, D. Neto, E. Coelho, E.P. Seraco, W. Destro, Petrobras - Petroleo Brasileiro S.A</td>
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<td>Subsea Fibre Wet-mate Connectors: Achieving the Balance Between Consistent Optical Performance, Product Cost and Compact Size</td>
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<td>Completion of Successful Multistage Sliding Sleeve Fracpack in the Campos Basin</td>
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<td>M.M. Campos, L.D. Ribeiro, F. Diehl, C. Moreira, D. Bombardelli, A. Carelli, G. Junior, S. Pinto, Petrobras; B. Quaresma, PUC-Rio/Tecgraf</td>
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| 1455       | 27980    | Successful Application of Cased and Perforated Completions in Deepwater  
| 1520       | 28103    | Intelligent Completions used During Extended Well Test of Exploratory Wells in Brazil  

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| 1545       | 28011    | WSOG and Emergency Disconnection Guidelines  
D.F. Cruz, D.R. Fonseca, Petrobras |
| 1610       | 28070    | Riserless Open-Water Abandonment Module: Allowing Open-Water Tubing Pulling in a Safe and Environmentally Contained Manner  
J. Batista, Helix do Brasil; D. Carr, Helix WellOps |
| 1635       | 27998    | How Technology and an Integrated Project Approach Help Reduce Well Liability Costs During the Decommissioning Phase  
J.T. Giskemo, F. Marcancola, Halliburton |
Technical Program: Wednesday, 25 October

All technical sessions are located in Pavilion 5, second floor.

0930–1200 Room 203
Safety in the New Deepwater World

SESSION CHAIRPERSON:
Henrique Paula, ABS

PANELISTS:
Vinicius Rodrigues, Shell
Marcel Katekawa, ANP
Marcelo Mafra Macedo, ANP
Kenneth Richardson, ABS Americas
Robert Spong, Energo
Kjell Bersaaas, Statoil

0930–1200 Room 204 B/C
Exploration and Development in Brazil: Opportunities, Challenges, and Perspective

SESSION CHAIRPERSONS:
Sylvia Anjos, Petrobras
Fernando Borges, Petrobras

PANELISTS:
Eliane Petersohn, Chief Geologist, ANP
Maxime Rabilloud, E&P CEO, Total Brasil
Renato Bertani, CEO, Barra Energia
Ricardo Bedregal, President, IHS Markit Brazil
Javier La Rosa, President, Chevron Brasil
Joris Grimbergen, General Manager – Exploration, Shell Brasil
Carla Lacerda, President, Exxon Mobil Brazil
Hercules Ferreira da Silva, Director of Contract Management, PPSA

0930–1200 Room 204 A
Lessons Learned and Subsea Development in Mature Offshore Provinces

SESSION CHAIRPERSONS:
Marcello Roberto, Petrobras
Edson Labanca, OGPar

PANELISTS:
Birger Veile Hanssen, OneSubsea
Eduardo Oazen, Petrobras
Sonja Hauge, Aker Solutions
Lincoln Facundo, TechnipFMC
Andre Marli, Statoil ASA
Marcio Pereira, GE Oil and Gas

1215–1345 Room 101 B
Topical Luncheon: Awards Luncheon

SESSION CHAIRPERSON:
João Carlos de Luca, OTC Brasil General Chairman

SPEAKER:
Pedro Parente, Petrobras CEO

1400–1630 Room 204 A
Formation Evaluation and Reservoir

SESSION CHAIRPERSON(S):
Denis Schiozer, Unicamp
Conrado Keidel, Petrobras

1400 28098
Petrophysical Characterization of Carbonates Heterogeneity
L.O. Pires, G.L. Fiorelli, A. Winter, O.V. Trevisan, Universidade Estadual De Campinas

1425 28143
Effects of Calibrated Water Into Carbonate Dissolution
R. Nunez, E.T. Koroishi, O.V. Trevisan, Universidade Estadual De Campinas; R.D. Freitas Filho, Repsol Sinopec

1450 28095
Direct Pore-level Examination of Hydraulic-Electric Analogy in Porous Media
B. Goudarzi, P. Mohammadmoradi, A. Kantzas, University of Calgary

1515 27963
Flow Rate Measurement Using Test Separator and PDG Data Allows Individual and Commingled Production Zone Flow Rate History Calculation
A. Coimbra de Oliveira, E.A. Puntel de Oliveira, Petrobras

1540 28061
Application of the Delta Transient Method to Multi-Rate Tests: A Method for Calculating Individual Layer Permeability and Skin in a Multilayered Reservoir Using Production Logging Data
C. Guimaraes, M.D. Galvao, Petrobras

1605 28209
Reservoir Development with OCTOPUS: Drainage Plan Decisions Supported by an Artificial Intelligence System
M.A. Cardoso, Petrobras; M.C. Pacheco, A.C. Abreu, PUC-Rio; L.F. Mendonza, UERJ
Technical Program: Wednesday, 25 October

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<td><strong>Innovative Processing: Subsea, Topside &amp; FLNG</strong></td>
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<td>Hoss Shariat, KBR</td>
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<td>Dalmo Zerbini, OneSubsea LLC</td>
<td>Cristiane Richard de Miranda, Petrobras</td>
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<td>S. Tierling, D.A. Attaway, KBR</td>
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<td><strong>Technical-Economic Evaluation of Microfiltration Polymeric Membranes as Pretreatment of Offshore Sulfate Removal Units</strong></td>
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<td><strong>Enhanced Cement Bond Evaluation in Thick Casing Utilizing Guided Acoustic Modes Generated by Electromagnetic Acoustic Transducers</strong></td>
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<td>T.N. dos Santos, L. Yokoyama, UFRJ; G.G. Lage, Petrobras</td>
<td>D.J. Patterson, S. Ingram, P. Matuszyk, X. Yao, R. Das, R. Steinsiek, Baker Hughes, a GE company</td>
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<td><strong>The Use of CFD Simulations To Compare and Evaluate Different Sizing Algorithms for Three-Phase Separators</strong></td>
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<td><strong>First Application of Foamed Cement for Production Operation in Ultra-deepwater Well: Case History</strong></td>
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<td><strong>Ultra Deepwater Salt Zone Cementing in Gulf of Mexico Wells</strong></td>
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<td>S. Simoes Neto, Petrobras; A.R. Secchi, Universidade Federal do Rio de Janeiro</td>
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<td><strong>Predicting and Detecting Equipment Malfunctions Using Machine Learning</strong></td>
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<td><strong>Tailored and Reliable Method for Cement Plug Improves Times in Deep Water</strong></td>
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<td>P.D. Bangert, Algorithmica Technologies Inc.</td>
<td>L.F. Souza, A. De La Cruz Sasso, H. Munoz, Halliburton</td>
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## TECHNICAL PROGRAM

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| 1400–1630  | Room 203 A | **SE11** New Developments in Ultra-Deep in South America | Session Chairperson: Rajiv Aggarwal, Consultant  
Panelists: Roald Lokken, ExxonMobil Upstream Research Co.  
Carlos Mastrangelo, SBM Offshore  
Luiz Feijo, ABS  
Russell McBeth, TechnipFMC |
| 1400–1630  | Room 203 B/C | **SE12** Libra Development | Session Chairperson: Stephen Balint, Shell  
Panelists: Fernando Borges, Petrobras  
Paulo Rovina, Petrobras  
Flavio Jose, Halliburton  
Marcel Wieggers, Seadrill  
Ricardo Toneto, Petrobras;  
Marcelo Aragão, TechnipFMC  
Fabio Queiroz, Petrobras  
Jorge Mitidieri, Odebrecht  
Francisco Costa, Petrobras |
| 1630–1830  | Main Auditorium | **SE13** Opportunities for New Players in the Pipeline Transportation of Offshore Production in Brazil | Session Chairperson: Alex Dalpont, Petrobras  
Panelists: Paulo Penchina, Transpetro |
Technical Program: Thursday, 26 October

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0900–1130 Room 204 A

Enhanced Oil Recovery

SESSION CHAIRPERSONS:
Othon Monteiro, Baker Hughes
Carlos Alvarez, Gaffney, Cline & Associates Inc.

0900 28008
Methodology to Improve Miscible Gas Injection Forecast Based on a Field Scale Simulation Model
V.D. Rios, L. Schmall dos Santos, F.B. Quadros, R. Lykawka, Petrobras; D.J. Schiozer, Universidade Estadual De Campinas

0925 28023
Low Salinity Waterflooding Effect: Crude Oil/Brine Interactions as a Recovery Mechanism in Carbonate Rocks
J.T. Tetteh, E. Rankey, R. Barati Ghafharokhi, University of Kansas

0950 28019
Qualification of Biopolymer in Offshore Single Well Test

1015 27953
Polyacrylamide Mechanical Degradation and Stability in the Presence of Iron
V.D. Ferreira, R.Z. Moreno, University of Campinas

1105 28038
Near-Miscible Flooding by Production Gas Re-Injection in QHD 29-2 Offshore Oilfield
H. Chen, China University of Petroleum, Beijing; X. Zhang, Research Institute of CNOOC; J. Yang, The Federal University of Rio de Janeiro; H. Tang, Y. Mei, B. Li, X. Shen, China University of Petroleum, Beijing

0900–1130 Room 204 B

Floating Production Systems - Hull and Mooring

SESSION CHAIRPERSONS:
Arthur Saad, Petrobras
Robert Goulard, Queiroz Galvao Exploration & Production SA

0900 28137
Cost Reduction Method for the Replacement of a Riser Bellmouth
R. Yoshioka, D. Thorne, A. Kovacs, SBM Offshore; D. Maier, F. Mineiro, Petrobras

0925 28119
Automatic Verification of Instrumentation Lessons Learned in New FPSO Projects by Using Constructability-Based Queries Applied to CAE (Computer Aided Engineering) Tools Databases
M.S. Torres, B.P. dos Santos, F.C. Diniz, P.V. Cintra, Petrobras S.A.

0950 28050
Heavy Denier High Performance Polyester Yarns for Deep Water Offshore Mooring Ropes
M. Briguet Bastos, MBB Enterprises; L. Haach, A. Tomazi, Lankhorst Euronete; E.B. Fernandes, Unisinos

1015 28041
Multirate Timestepping For Mooring Line Dynamics
C. Low, Lloyd's Register Global Technology Centre; S. Narasimalu, Y. Ng, Nanyang Technological University; K. Chua, Lloyd's Register Global Technology Centre

1040 28033
The Next Generation of the Purpose Built Intervention Semi-Submersibles: Delivering Subsea Well Intervention Cost Reduction Through the Increase of the Operational Efficiency
J. Batista, Helix do Brasil; D. Carr, Helix WellOps

1105 27972
Best Practices for Decommissioning of Floating Production Systems (FPS)
S. Leite Alves Junior, R. Souza, SBM Offshore do Brasil
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<td>Flavio Vianna, Petrobras; Gabriel Andrade, Shell Brasil Ltda</td>
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<td>Subsea Concept Alternatives for Brazilian Pre-Salt Fields</td>
<td>K.F. Buckley, R. Uehara, Shell</td>
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<td>Otimrota - Multiline - Computational Tool for the Conceptual Design of Subsea Production Systems</td>
<td>T.D. Santos, D.M. Rocha, L.I. Pereira, Petrobras; J. Baioco, UFRJ/UFF; C. Albrecht, B. Jacob, UFRJ</td>
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<td>An Integrated Field Development Methodology for Improving FELI</td>
<td>G.C. Nunes, A.L. Costa, Universidade do Estado do Rio de Janeiro; J.d. Romão, Petrobras</td>
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<td>1105</td>
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<td>Design One-Build Many: The Execution Strategy Leading to the Successful Delivery of FPSOs Cidade De Marica and Cidade de Saquarema, Twin Production Systems Copied From Previously Delivered FPSO Cidade De Ilhabela</td>
<td>G.M. Pinto, R. Torres, SBM Offshore do Brasil; P.R. Ribas, Consultant</td>
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<td>0900</td>
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<td>Advanced Computation and Simulation - Reservoir</td>
<td>Antonio Amorim, Faculdade De Tecnologia E Ciencias; Gerardo Acosta, Universidad Nacional Del Centro De La Provincia De Buenos Aires</td>
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<td>Multi-Scale Ensemble-Based Data Assimilation for Reservoir Characterization and Production Forecast: Application to a Real Field</td>
<td>A. de Lima, T. Gentilhomme, D. Riffault, F. Allo, CGG; A.S. Anyzewski, A.A. Emerick, M. dos Santos, Petrobras</td>
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<td>Thermodynamic Properties and Fluid Phase Equilibria of Natural Gas Containing CO2 and H2O at Extreme Pressures for Injection in the Brazilian Pre-Salt Reservoirs</td>
<td>C. Aimoli, D.P. Carvalho, Petróleo Brasileiro S.A.; P.A. Pesso Filho, Universidade de Sao Paulo; E.J. Maginn, University of Notre Dame</td>
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<td>Evaluation of Hybrid EOR as Polymer-Assisted Carbonated Waterflood in Calcite Cemented Sandstone Reservoir</td>
<td>J. Lee, G. Kim, K.S. Lee, Hanyang University</td>
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<td>1040</td>
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<td>Laboratory Validation of Engineered Composite and High Fluid-Loss Materials to Help Cure Severe Losses in Fractured Formations</td>
<td>D.M. Obando, F.C. Fornasier, Halliburton</td>
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#### 0900–1130 Room 211

**Sour Service – Pipes**

**SESSION CHAIRPERSONS:**
Pascoal Bordignon, CBMM Consultant
Christian Schruff, EUROPIPE GmbH

**0900 28082**
**Application of TMCP Material for Large Diameter Pipelines Under Sour Service Conditions**
C. Schruff, C. Kalwa, H. Hillenbrand, EUROPIPE GmbH

**0925 27962**
**Study of the Mechanical Properties and Fracture Morphology of Niobium Microalloyed 80 ksi Class Thick Plates Produced by Controlled Rolling Followed by Accelerated Cooling**

**0950 28154**
**Effect of Microstructure on Hydrogen Diffusivity, Trapping and HIC Resistance in Two API X65 Steels**
V.S. Marques, D. Hincapie, L. Nishikawa, H. Goldenstein, University of Sao Paulo

**1015 28026**
**Development of Low-Manganese L80 HF-ERW Tube Containing 1% Cr with Addition of Boron**
L.C. Melo, W. Cordeiro, I. Gomes, M.W. Ferreira, Apolo Tubulares S/A; J.d. Payao, COPPE/UFRJ

**1040 28032**
**Mechanical Behavior of X-65 Seamless Rigid Pipe During Resonant Fatigue Testing: a Numerical and Experimental Approach**
T.Z. Stapasolla, O.D. Pinto, A. Mosquen, M.F. Borges, C.E. Kwietniewski, UFRGS

**1105 28151**
**Hydrogen Induced Cracking (HIC) Resistance in HSLA API 5L X65 e 5L X80 Steels**
J. Quispe Aviles, N. Alonso-Falleiros, H. G.de Melo, Universidade de Sao Paulo

#### 0900–1130 Room 212

**Drilling 2**

**SESSION CHAIRPERSON(S):**
Thiago Fernandes, Total E&P
Shintiti Ohara, Barra Energia

**0930 28091**
**The Longest Horizontal Section Ever Drilled in an Extended-Reach Well in Brazil**
R. Kenupp, A. Lourenco, S. Soltvedt, I. Thomson, Baker Hughes, a GE Company; G. Simoes, D. Morosov, R. Andrade, Statoil

**0955 27975**
**Lessons Learned and Reduction in Rig Time with the Use of Water-Based Mud to Bottom Hole Drilling in the Pre-Salt**
R. Balthazar Vadinal, F. Fabri, G.T. Teixeira, K.A. Gonzaga, P.H. Pereira da Silva, Petrobras

**1020 27982**
**An Integrated Approach in Well Integrity Service Assists Improving Zonal Isolation in Production Section**

**1045 28208**
**HSE in Libra Project - Designing for Outstanding Performance**
W. Bo, CNOOC Brasil Ltda; F. Castro, Shell; C. Deplante, Total; M. Katekawa, Petrobras; S.W. Balint, Shell

**1110 28034**
**Artificial Intelligence Strategy Minimizes Lost Circulation Non-Productive Time in Brazilian Deep Water Pre-Salt**

**1135 28121**
**Cybersecurity for Upstream Operations**
M.A. AlGhazal, M. AlJubran, Saudi Aramco
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0900–1130 Room 203 A  SE14
Offshore Decommissioning: Overview of Regulations and Best Practices
SESSION CHAIRPERSON:
Eduardo Zacaron, Petrobras
PANELISTS:
Luiz Oliveira, DNV-GL
Jean-David Caprace, UFRJ-SOBENA
Jose Umberto Borges, Petrobras
Marcelo Igor Lourenco, UFRJ/COPPE
Marcelo Mafra, ANP

0900–1130 Room 203 B/C  SE15
Pre-Salt Development -1 Billion bbl Cumulative Production: Concepts, Implementation and First Results
SESSION CHAIRPERSONS:
Antonio Capeleiro Pinto, Petrobras
Olivier Wambersie, Shell
PANELISTS:
Joelson Mendes, Executive Manager - Ultra-Deep Water Projects, Petrobras
Tiago Homem, General Manager - Ultra-Deep Water Projects - Reservoir, Lift and Flow Assurance, Petrobras
Cristiano Sombra, Coordinator - Pre-Salt Technological Program, Petrobras
Daniele Lomba Zaneti Puelker, General Manager, Corporate HSE, Petrobras
Marco J. Brummelhuis, Libra General Manager, Shell

1130–1300 Main Auditorium  SE16
Process Optimization by Digital Technologies - No Way To Get Out of This Wave
SESSION CHAIRPERSON:
Hugo Repsold, Petrobras
PANELISTS:
Claudio Makarovsky, Oil & Gas Corporate Account Manager, Siemens
Sylvain Santamarta, Partner and Managing Director, BCG
Frederico Ferrari, Digital Transformation Manager, Renault-Nissan

1130–1300 Room 203 B/C  SE17
Bringing Together Key Players for the Resumption of the Oil and Gas Industry Production Process in Brazil
SESSION CHAIRPERSON:
Márcio Félix, Secretary of Petroleum, Natural Gas and Natural Resources, Ministry of Mines and Energy
PANELISTS:
Decio Odone, ANP General Director
Eduardo Eugenio Gouveia Vieira, FIRJAN
Jose Firmo, ABESPETRO
Jorge Camargo, IBP

1300–1430 Room 101 B  SE18
Topical Luncheon: How does Deepwater Compete with Shales?
SESSION CHAIRPERSON:
Jose Formigli, Forsen
SPEAKER:
Andrew Brown, Director of Global Upstream, Shell

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TECHNICAL PROGRAM
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1430–1700  Room 204 A  25

Production

SESSION CHAIRPERSON:
João Marcelo Baima, Shell Brasil Petróleo
Morten Stenhaug, Schlumberger

1430  28093
Parametric Study of the Influence of GOR and CO₂ Content on the Simulation of a Pre-Salt Field Configuration

1455  28053
Reynolds Number Influence on Wax Deposition
R.C. Albagli, Petrobras; L.B. Souza, A.O. Nieckele, PUC-Rio

1520  28155
Stability Solver for Offshore Oil Flows
I. Andreoli, Petrobras; G.R. Azevedo, J.L. Balino, Universidade de Sao Paulo

1545  28123
A Step Change in Safety and Quality for ESP Deployment in the North Sea
L.F. Pastre, W. Barclay, D. Elrick, A. Kriptanto, Schlumberger

1610  28132
Subsea Demulsifier Injection To Reduce Emulsion Viscosity and Enhance Crude Oil Production
M.C. Oliveira, L.F. Paiva, F.A. Meireles, R. Mendes, P.M. Silva, L.G. Machado, Petrobras

1635  28108
Advanced Control For Gas-lift Well Optimization

1430–1700  Room 204 B  26

Offshore Logistic and Decommissioning

SESSION CHAIRPERSONS:
Luis Gustavo Storino Bastos, Shell Brasil Ltda
Juliana Seixas, Halliburton

1430  27951
Tracking of Materials and Equipment Used in Planned Maintenance Shutdowns on Offshore Platforms: An Approach using RFID
P.D. Soares, C.M. de Oliveira, G. Morales, J. Arica, State University of Northern Rio de Janeiro (UENF); I. Matias, Universidade Candido Mendes; A.S. Fereira, Fluminense Federal University (UFF); V. Carneiro, I-dutto

1455  28014
Estimation of Diesel Supply Vessels in Offshore Oil and Gas Activities through Dynamic Simulation
V.A. Silva, P.C. Moreira, R.P. Leite, Petrobras

1520  28157
Analytical and Experimental Analysis of Friction Forces Inside Curved Pipes

1545  28148
A Solution to Optimize the Logistics of a Fleet of Workover Vessels Applied to Offshore Operations in the Gulf of Mexico
D. Vasconcelos, Halliburton; E.M. Nogueira, formerly Halliburton; S. Sousa, R. Charrouf, Halliburton

1610  28124
Epoxy Resin Helps to Restore Well Integrity in Offshore Well—Case History
M.V. Perez, J. Melo, R. Blanc, A. Roncete, P. Jones, Halliburton

1635  28024
The Effectiveness of the Infraction Notice as a Tool of the Regulation System
H.C. Saad, M.B. Bergamaschi, ANP - Agencia Nacional Do Petroleo; M.D. Santos, G.R. Tavares, Universidade Federal Fluminense
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<td>Risk Based Ship Collision Assessment For Floating Structures</td>
<td>J. van de Graaf, H. Singh, A.R. Anaturk, Shell Global Solutions International BV</td>
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<td>Real-Time Asset Optimisation - Integrity Management of Flexible Pipe Systems: Meeting the Challenge</td>
<td>G. Eckold, R. White, Baker Hughes, a GE company</td>
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<td>SESSION CHAIRPERSONS: Pascoal Bordignon, CBMM Consultant Da Zhu, RGL Reservoir Management Inc.</td>
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<td>Investigation of Electroless Nickel-Phosphorus Coating as an Alternative to Corrosion/Fouling Resistant Alloys in Downhole Service</td>
<td>D. Zhu, A.A. Uzcategui Cortes, RGL Reservoir Management Inc; L. Qong, X. Qiu, J. Huang, C. Sun, J. Luo, H. Zeng, University of Alberta</td>
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<td>Experiences from Automated Hardware-In-The-Loop Testing of BOP Control Systems</td>
<td>O. Kårvand, L. Pivano, R. Stenbro, C. Ramos De Carvalho, S. Boff, DNV GL; L. Staudacher, NOV Rig Systems</td>
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<td>L.R. Brunherotto, D.M. Ribeiro, M.V. Perez, Halliburton</td>
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<th>Room</th>
<th>Session Title</th>
<th>Chairpersons/Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1430–1700 Room 211</td>
<td>Well Logging and Cementing</td>
<td>SESSION CHAIRPERSON(S): Adolpho Souza, Schlumberger</td>
<td></td>
</tr>
<tr>
<td>1430</td>
<td>28150</td>
<td>Identification of Stresses on Near-Borehole Field Using Cross-Dipole Sonic Tool and Image Logs: Case Study in Deepwater Carbonate</td>
<td>H. Tamoto, Halliburton; T. de Bittencourt Rossi, Petrobras; M. Barroso Fouraux, Halliburton</td>
</tr>
<tr>
<td>1455</td>
<td>28046</td>
<td>Experiences from Automated Hardware-In-The-Loop Testing of BOP Control Systems</td>
<td>O. Kårvand, L. Pivano, R. Stenbro, C. Ramos De Carvalho, S. Boff, DNV GL; L. Staudacher, NOV Rig Systems</td>
</tr>
<tr>
<td>1545</td>
<td>28115</td>
<td>Integrated Solution for Deepwater Cementing Challenges: Cases Histories</td>
<td>L.R. Brunherotto, D.M. Ribeiro, M.V. Perez, Halliburton</td>
</tr>
</tbody>
</table>
## Technical Program: Thursday, 26 October

All technical sessions are located in Pavilion 5, second floor.

### Advanced Geophysical Technologies for Reservoir Characterization and Monitoring

**SESSION CHAIRPERSONS:**
- Paulo Johann, Petrobras
- Luiz Braga, SBGf

**PANELISTS:**
- Adrian Smith, CGGVeritas
- Christian Deplante, Total
- Paulo Johann, Petrobras
- Kanglin Wang, Shell
- Christopher Walker, Seabed Solutions
- Valente Ricoy, EMGS

### E&P Strategies To Achieve Success in a Low Oil Prices Scenario

**SESSION CHAIRPERSON:**
- Solange da Silva Guedes, Petrobras

**PANELISTS:**
- Wael Sawan, Executive Vice President of Deepwater, Royal Dutch Shell
- Bernard Looney, Chief Executive, Upstream, BP
- Tomas Garcia Blanco, VP E&P, Europa, Africa and Brazil, Repsol
- Michael Hourcard, CEO, TOTAL E&P Americas
- Anders Opedal, Executive Vice President of Statoil and President Statoil Brazil
- Thore Kristianssen, COO E&P, Galp