

**Monday, 30 April, 0930 to Noon**

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**DALIA PROJECT**

**Session Chairpersons:** Didier Gazaniol, Total S.A.  
Claude Valenchon, Saipem S.A.

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|------|-------|--|---|
| 0930 | 18538 | <b>The Dalia Challenges and Achievements</b>                                     | D. Picard, J. Thebault, Total E&P Angola; F.J. Goncalves, R. Costa, Sonangol  |
| 0952 | 18539 | <b>Dalia Development: Subsurface, Drilling, and Well-Completions Engineering</b> | D. Caie, E. Casse, Total E&P Angola; B. Elias, Sonangol E&P   |
| 1014 | 18540 | <b>Dalia Field: System Design and Flow Assurance for Dalia Operations</b>        | A. Courbot, R. Hanssen, Total E&P Angola  |
| 1036 | 18541 | <b>Dalia Subsea Production System: Presentation and Challenges</b>               | J.L. Lafitte, M. Perrot, J. Lesgent, J. Bouville, S. Le Penneec, Total E&P Angola; P. Dahl, Hydro; S. Lindseth, AKS |
| 1058 | 18543 | <b>Dalia Flowlines, Risers, and Umbilicals</b>                                   | M. Gloaguen, H. Bourdillon, F. Roche, T. Boscal de Reals, Total E&P Angola; P. Menier, A. Marion, Technip           |
| 1120 | 18544 | <b>Dalia Development: The FPSO Story and Project Challenges</b>                  | G. Mouillerat, G. Regnault, Total E&P Angola; J. Leroux, Technip  |
| 1142 | 18546 | <b>Dalia Oil Offloading Export System</b>  | M. Gloaguen, H. Bourdillon, Total E&P Angola; E. Kobylanski, Technip; O. Skjastad, APL                              |

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**ENABLING DRILLING TECHNOLOGY**

**Session Chairpersons:** Tom Gee, Weatherford Intl. Ltd.  
Kieran Kavanagh, MCS

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|------|-------|---|--|
| 0930 | 18646 | <b>Enabling Solutions for Deepwater Drilling Riser Management: A Critical Evaluation</b>  | A.S. Westlake, K. Uppu, MCS  |
| 0952 | 18973 | <b>Enabling Enhancements of Riser VIV Design Techniques Through Detailed Interpretation of Test Results for VIV Suppression Devices</b> | D. Spencer, Oceanic Consulting; S. Leverette, Atlantia Offshore; R.H. Masters, AIMS Intl.; R.D. Quinn, MCS; K.J. Schaudt, schaudt.us |
| 1014 | 19026 | <b>A Sensitivity Study on Fatigue Damage of a Drilling Riser Caused by Vortex-Induced Vibrations</b>                                    | F.E. Roveri, Petroleos   |
| 1036 | 18461 | <b>Improved Reliability of Drilling Operations Using Managed-Pressure Drilling Technology: A Case Study in Brown Field Environment</b>  | K.P. Malloy, Stress Engineering Services; V.C. Roes, Shell   |
| 1058 | 18561 | <b>Comparison and Advantages of Underbalanced and Managed-Pressure Drilling Techniques: When Should Each Be Applied?</b>                | K. Ostroot, S. Shayegi, D.W. Lewis, R. Lovorn, Halliburton Energy Services Group   |
| 1120 | 18496 | <b>2,000,000-lbm Slip-Based Landing-String System Pushes the Limit of Deepwater Casing Running</b>                                      | J.N. Brock, R.B. Chandler, M.J. Jellison, Grant Prideco; L.W. Sanclemente, R.J. Robichaux, Workstrings; M. Saleh, Chevron            |
| 1142 | 18879 | <b>The First Dual-Lateral Well Successfully Drilled Underbalanced in Libya</b>  | H.A. Safar, S.A. Azhary, A.M. Hijazi, Zueitina Oil; H.H. Qutob, J.R. Chopty, C.D. Pham, Weatherford Oil Tools                        |

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**NEW PIPELINE TECHNOLOGY DEVELOPMENTS AND APPLICATIONS:  
LOWERING THE RISKS OF OFFSHORE OPERATION**

**Session Chairpersons:** Stephen Schroder, Baker Hughes  
Beatriz Santiago, Consultant

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| 0930 | 19027 | <b>New Process To Girth Weld Pipe With a Gasless Technology</b>   | B.K. Narayanan, P. Soltis, L. McFadden, M. Quintana, The Lincoln Electric Co.  |
| 0952 | 18934 | <b>Continuum FE Modeling of Lateral Buckling</b>  | S. Yu, I. Konuk, S. Yu, Geological Survey of Canada  |
| 1014 | 18939 | <b>Pipeline Risk Assessment in Deepsea Furrow Regions</b>   | E. Clukey, BP Amoco; K. Israel, C. Jones, K. Ziegler, SeaQ   |
| 1036 | 18882 | <b>Using Platelet Technology To Seal and Locate Leaks in Subsea Umbilical Lines</b>   | N.J. Ryan, Brinker Technology  |
| 1058 | 18783 | <b>Implementation of the New HISC Criteria and Other Challenges Faced for a North Sea Bundle Project</b>  | T.I. Grytten, K. Nilsson, D. Karunakaran, Subsea 7   |
| 1120 | 18679 | <b>Thermal Insulation Material for Subsea Pipelines: Benefits of Instrumented Full-Scale Testing To Predict the Long-Term Thermomechanical Behavior</b> | N. Bouchonneau, Ifremer; V. Sauvant-Moynot, F. Grosjean, Inst. Français du Pétrole; D. Choqueuse, Ifremer; E. Poncet, D. Perreux, Franche-Comté U. |
| 1142 | 18978 | <b>On the Influence of the UOE Process on Collapse and Collapse Propagation Pressure of Steel Deepwater Pipelines Under External Pressure</b>           | R. Toscano, J. Raffo, L. Mantovano, Tenaris; M. Fritz, R.C. Silva, TenarisConfab   |

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**METOCEAN: EXTREME WEATHER IMPACT**

**Session Chairpersons:** David Wisch, Chevron Corp.  
Jim Stear, Chevron Corp.

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|------|-------|---|--|
| 0930 | 18652 | <b>Hindcast of Winds, Waves, and Currents in Northern Gulf of Mexico in Hurricanes Katrina 2005 and Rita 2005</b>   | V.J. Cardone, A.T. Cox, Oceanweather; G.Z. Forristall, Forristall Ocean Engineering                  |
| 0952 | 18466 | <b>Developments in Watertight Integrity on Floating Offshore Installations</b>  | J.H. Rousseau, J.A. Breuer, ABS  |
| 1014 | 18493 | <b>Extreme Wave Effects on Deepwater Floating Structures</b>  | B. Buchner, T. Bunnik, Marin   |
| 1036 | 18462 | <b>Concerns and Their Impact on Offshore Design and Operations: Were Hurricane Ivan 2004 and Katrina and Rita 2005 100-Year Events or a Result of a Moving Over of a Warm Loop Current?</b> | J.F. Hasling, Weather Research Center  |
| 1058 | 18465 | <b>Consideration of Freak Waves for Design of a Jackup Structure</b>  | T.E. Schellin, Germanischer Lloyd A.G.; T. Jahnke, J. Kunzel, Germanischer Lloyd Industrial Services |
| 1120 | 18620 | <b>Wave Crest Heights and Deck Damage in Hurricanes Ivan, Katrina, and Rita</b>   | G.Z. Forristall, Forristall Ocean Engineering  |

1142 18903 **Development of Revised Gulf of Mexico Metocean Hurricane Conditions for Reference by API Recommended Practices** G. Berek, ExxonMobil; C.K. Cooper, Chevron; D.B. Driver, BP; J.C. Heideman, D.A. Mitchell, ExxonMobil; J.D. Stear, Chevron; M.J. Vogel, Shell Intl. E&P

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**THE EAST COAST OF CANADA: AN AREA OF GREAT OPPORTUNITY**

**Session Chairpersons:** Rod Doane, Petroleum Research Atlantic Canada  
Paul Harvey, Nova Scotia Dept. of Energy

0930 19053 **Exploration Potential of the Deepwater Petroleum Systems of Newfoundland and Labrador Margins** J.R. Hogg, ConocoPhillips Canada; M.E. Enachescu, Memorial U.  
0952 18970 **Review of Nova Scotia's Deepwater Drilling and Its Effect on the 2002 Resource Assessment** B.M. Smith, Canada Nova Scotia Offshore Petroleum Board  
1014 19077 **First Jackup Drilling Operation on the Grand Banks of Newfoundland: Lessons Learned** G.C. Bagnell, Rowan Cos.  
1036 19054 **New Era in CNG Transport** L. Thompson, Floating Pipeline Co.  
1058 19058 **Sable Compression Facilities: Technical Overview** H.R. Stewart, ExxonMobil Canada  
1120 19069 **Pipeline Capacity for Transporting New East Coast Gas Supplies: Is There Enough?** R. Whitwham, Maritimes & Northeast Pipeline  
1142 19089 **Review of the Canada Nova Scotia Offshore Petroleum Board's Digital Data Management Center** C.R. Makrides, Canada Nova Scotia Offshore Petroleum Board

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**GLOBAL FOUNDATION SOLUTIONS**

**Session Chairpersons:** Philippe Jeanjean, BP America  
Daniel Spikula, Geoscience Earth & Marine Service

0930 18684 **Retractable Pile: New Solution for Jackup Platform** P.A. Thomas, N. Tcherniguin, A. Maconochie, J. Oliphant, Technip  
0952 18923 **Design and Operation of an Extractable Caisson Foundation for Offshore Structures** M. Hesar, XiFEP  
1014 18688 **A Case Study of Using Very Large Skirt Can for Self-Installing Platform Foundations** V. Alessandrini, G. Lebois, Technip  
1036 18813 **Verification of Suction Caisson Design Model Using the Finite-Element Method** S. El-Gharbawy, Intec Engineering  
1058 18741 **Study on Capacities of Symmetry Multibucket Foundation on Soft Clays Strata Under Cyclic Loads** C. Li, Inner Mongolia U. of Technology, China  
1120 18672 **The Challenges Associated With the Installation of Long-Distance Tie-Backs** P.K. Forbord, L. Myklebost, A. Skeie, B.O. Bakken, G.M. Lund, T. Groenvik, Acergy

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**ADVANCES IN GEOPHYSICS AND RESERVOIR MONITORING**

**Session Chairpersons:** Larry Scott, Offshore Hydrocarbon Mapping  
Joe Reilly, ExxonMobil Upstream Research Co.

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| <b>0930</b> | <b>18700</b> | <b>Measuring Velocity Sensitivity to Production-Induced Strain at the Ekofisk Field Using Time-Lapse Time-Shifts and Compaction Logs</b><br>A.L. Janssen, B.A. Smith, ConocoPhillips; G. Byerley, ConocoPhillips Norway                           |
| <b>0952</b> | <b>19013</b> | <b>A Case of SI Attenuation in 4D-Seismic Data Recorded With a Permanently-Installed Array</b> J.H. Kommedal, BP Norge A/S; P. Semb, PGS Geophysical A/S; T. Manning, BP  |
| <b>1014</b> | <b>19049</b> | <b>Estimating 4D Velocity Changes and Contact Movement on the Norne Field</b> V. Aarre, Schlumberger Oilfield Services  |
| <b>1036</b> | <b>19068</b> | <b>Petrophysical Seismic Inversion Applied to the Troll Field</b> A.J. van Wijngaarden, Hydro; T.J. Coleou, CGG Veritas; R. Ona, A.N. Haaland, Hydro; P. Moliere, CGG Veritas   |
| <b>1058</b> | <b>18908</b> | <b>Use of Oceanbottom Seismic for Improved Imaging at the Clair Field</b><br>J.H. Kommedal, BP Norge A/S; S. Fowler, J. McGarrity, BP   |
| <b>1120</b> | <b>18671</b> | <b>3D/4-C and 4D Oceanbottom Seismic Surveys in the Caspian Sea</b> J.G. Bouska, BP   |
| <b>1142</b> | <b>18951</b> | <b>High-Resolution Geological Visualization Using Spectral Inversion</b> F. Dwan, D.P. Griffith, Shell; J. Gil, Shell Venezuela; O. Portniaguine, C. Moreno, M. Burnett, G. Sparkman, Fusion Petroleum Technologies; J.P. Castagna, U. of Houston |