

Wednesday, 2 May, 1400 to 1630

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GENERAL SESSION: NOC-IOC—SERVICE COMPANIES: REVISITING THE COLLABORATION MODEL?

Moderators: Claire Lawrie, Accenture
Amy Jaffe, Baker Inst.

Most of the remaining proved oil reserves are with the national oil companies (NOCs), leading our industry to a two-fold problem for the next decade.

First, the growing imbalance of the reserves between the NOCs and the international oil companies (IOCs) may become a growing challenge. And second, the pressure to produce more will increase because the time when the demand for fossil fuels will exceed supply is coming soon.

Host countries and NOCs have been collaborating with IOCs and service companies to produce their reserves for decades. But the present situation may dictate that this collaboration must evolve, and possibly drastically. In other words, our present industry model may need to change.

This General Session will give the podium to eminent leaders of our industry to share their vision on how they see the adaptation to this changing situation.

Various subjects will be open for discussion, including production increase by NOCs, technical/management expertise, manpower, funding, etc. Are NOCs more open to technical innovations? Will NOCs' reserves open to IOCs? Are we close to a mutation of the role of the service industry in this context?

Panelists:

Tony Meggs, Group Vice President Technology, BP
J-M. Guillerrou, Senior Vice President, E&P Operations, Total
B. Duroc-Danner, CEO, Weatherford
Ali Al-Jarwan, General Manager, Abu Dhabi Marine Operating Company
Syanga Abilio, Vice President, Sonangol
Rod Clark, COO, Baker Hughes
Olivier Lazare, Vice President, New Business Development, Shell
Samir Passos Awad, Executive Manager, Americas, Africa and Eurasia, Petrobras. S.A.

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ADVANCES IN STEEL CATENARY RISER TECHNOLOGY

Session Chairpersons: Carlos Moreira, Petrobras
Ruxin Song, Technip

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| 1400 | 18584 | Independence Hub Flowline SCRs: Design, Fabrication, and Installation Challenges B.B. Mekha, Cuneiform Offshore Consulting |
| 1422 | 18624 | Experience and Guidance in the Use of Titanium Components in Steel Catenary Riser Systems C.F. Baxter, R.W. Schutz, RTI Energy Systems |
| 1444 | 18922 | Advanced Nonlinear Analysis Methodologies for SCRs F. Grealish, W.K. Kavanagh, A.D. Connaire, P. Batty, MCS |
| 1506 | 18524 | Deepwater Tieback SCR: Unique Design Challenges and Solutions R. Song, P.N. Stanton, Technip |
| 1528 | 18896 | Riser/Soil Interaction in Soft Clay Near the Touchdown Zone and Its Implication on Fatigue in Steel Catenary Risers T. Sen, KBR; M. Hesar, Subsea 7 |
| 1550 | 18482 | Fatigue Life Assessment of Reeled Risers T.A. Netto, M.I. Lourenco, A. Botto, UFRJ/COPPE |

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ERHA: WORLD-CLASS FPSO IN NIGERIA'S DEEP WATER

Session Chairperson: Subir Bhattacharjee, ExxonMobil Upstream Research Co.
Roald Lokken, ExxonMobil

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| 1400 | 18655 | Erha and Erha North Development: Overview T.C. Parker, A. Sofidiya, ExxonMobil Development Co. |
| 1422 | 18656 | Erha and Erha North Development: Safety Partnerships Produce World-Class Results R.A. McDonnell, O.M. Isiaka, ExxonMobil Development Co.; P. Barclay, Saipem S.A.; M. Mugnier-Pollet, Acergy; H.M. Underland, Cameron |
| 1444 | 18718 | Erha and Erha North Development: Setting the Pace for Nigerian Content D.B. Autin, A. Tijani, ExxonMobil Development Co.; H. Boulais, Saipem SA; S. Montbarbon, Acergy; H. Underland, Cameron |
| 1506 | 18659 | Erha and Erha North Development: Erha Floating Production, Storage, and Offloading Vessel S.M. Day, G.J. Parker, ExxonMobil Development Co.; P. Barclay, H. Boulais, Saipem S.A. |
| 1528 | 18657 | Erha and Erha North Development: Steel Catenary Risers and Offloading System N.C. Nolop, H. Wang, W. Kan, J.B. Sutherland, E.S. Elholm, D.S. Hoyt, ExxonMobil Development Co.; S. Montbarbon, H. Quintin, Acergy |
| 1550 | 18716 | Erha and Erha North Development: Automatic Ultrasonic Inspection of Corrosion-Resistant Alloy-Clad Steel Catenary Risers J. Sutherland, N.C. Nolop, M.S. Weir, D.S. Hoyt, ExxonMobil Development Co.; G. Prentice, Z. Tang, Shaw Pipeline Services; S. Montbarbon, Acergy. |

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MANAGING FLOW ASSURANCE RISKS

Session Chairpersons: Marcus Krekel, Exmar
Laurence Cowie, BP

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| 1400 | 18949 | Bonga: Flow Assurance Benchmarking Via Field Surveillance W. Schoppa, S. Jayawardena, Shell Global Solutions; T.T. Agbaje, D.C. Ebere, Shell Nigeria E&P; S. Iyer, Shell Intl. E&P |
| 1422 | 18810 | Development of a Pipeline Management System for an Ultradeepwater Long-Distance Subsea Tieback in the Gulf of Mexico A.P. Singh, Total; N. Zambare, M.F. Brostrom, Kongsberg, (formerly) Fantoft Process Technologies |
| 1444 | 18834 | Wax-On, Wax-Off: Understanding and Mitigating Wax Deposition in a Deepwater Subsea Gas/Condensate Flowline P. Mansfield, W. Nisbet, J. Balius, Shell E&P; G. Broze, L. Vreenegoor, Shell Global Solutions |
| 1506 | 18997 | Wax Properties and Behavior in Offshore Production and Transportation Systems N.F. Carnahan, Carnahan Corp. |
| 1528 | 18820 | The Use of Subsea Gas Lift in Deepwater Applications S.S. Jayawardena, G.J. Zabarar, L.A. Dykhno, Shell Global Solutions |
| 1550 | 18830 | Innovative Operations Management and Flow Assurance Strategies Extend Field Life and Increase Ultimate Reserves of a Long-Distance Subsea Tieback in Ultradeep Water A.P. Singh, K. Hannaford, Total |

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SUBSEA INCREASED OIL RECOVERY: A CONSIDERABLE TECHNOLOGICAL CHALLENGE

Session Chairpersons: Glenn MacDonald, Stress Subsea Inc.
Brian Skeels, FMC Energy Systems

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| 1400 | 18743 | Subsea IOR: Keynote Introduction R.H. Utseth, S. Strom, Statoil |
| 1422 | 18744 | Subsea Data Management B.K. Drakeley, Weatherford; S. Omdal, Statoil; S. Moe, FMC Technologies |
| 1444 | 18745 | Subsea Through-Tubing Rotary Drilling S. Strom, T.G. Werno, S. Andersen, Statoil; B. Neumann, FMC Technologies |
| 1506 | 18746 | Riserless Light Well Intervention P.K. Munkerud, Statoil; O. Inderberg, FMC Technologies |
| 1528 | 18747 | Subsea MMX, Year 2010 T.B. Gjersvik, FMC Technologies; A. Faanes, B. Egerdahl, Statoil |
| 1550 | 18749 | The Tordis IOR Project A.D. Gjerdsseth, FMC Technologies; A. Faanes, T. Ramberg, Statoil |
| 1612 | 18750 | Implementation of IOR Technologies H. Kjørholt, R.H. Utseth, S. Strom, Statoil |

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FLOAT-OVER DECK MATING OPERATIONS

Session Chairpersons: Darrel Harvey, Alan C. McClure Assocs.
Jan Wolter Oosterhuis, Dockwise

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| 1400 | 19072 | State of the Art in Float-Overs | M. Seij, H. de Groot, Dockwise |
| 1422 | 19073 | Float-Overs Offshore West Africa | C. Tribout, D. Emery, P. Weber, Technip; R. Kaper, Dockwise |
| 1444 | 18640 | Motion Compensated Float-Over Installation With the Use of Ampelmann Systems | F.W. Gerner, J. van der Tempel, Delft U. of Technology; R. Zoontjes, Heerema Marine Contractors; H. de Groot, Dockwise |
| 1506 | 18683 | Float-Over High Air Gap: New Solution | J. Cholley, M.C. Cahay, Technip |
| 1528 | 19047 | Potential Failure Mechanisms in Float-Over Deck Mating Systems | S. Byle, Offshore Kinematics |
| 1550 | 19024 | Differentiation of Risk Within the Offshore Construction Insurance Market, With a Particular Focus on Offshore Installation and Decommissioning Methodologies and the Insurance Market Reaction | E.D. Nicolson, P. Burton, Marsh Marine & Energy |

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SHALLOW-WATER FLOW IN THE URSA BASIN: AN IODP/INDUSTRY COOPERATION

Session Chairpersons: Kelly Kryc, Integrated Ocean Drilling Program
Greg Myers, Integrated Ocean Drilling Program

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| 1400 | 18822 | Geology of Shallow-Water Flow at Ursa: 1. Setting and Causes | C.D. Winker, R.J. Stancliffe, Shell |
| 1422 | 18823 | Geology of Shallow-Water Flow at Ursa: 2. Drilling Principles and Practice | C.D. Winker, R.J. Stancliffe, Shell |
| 1444 | 19097 | Interpretation of Downhole Measurements, Deformation Analyses, and Lithologic Characterization in the Ursa Basin, Gulf of Mexico | G.J. Iturrino, Columbia U.; B. Dugan, Rice U.; D. Sawyer, P.B. Flemings, Pennsylvania State U.; J.C. Moore, U. of California Santa Cruz |
| 1506 | 19098 | Lateral Variations in Core, Log, and Seismic Attributes of a Mass Transport Complex in the Ursa Region, IODP Expedition 308, Northern Gulf of Mexico | D.E. Sawyer, P.B. Flemings, Pennsylvania State U.; B. Dugan, Rice U. |
| 1528 | 18704 | Physical Properties of Mass Transport Complexes in the Ursa Region, Northern Gulf of Mexico, IODP Expedition 308, Determined From Log, Core, and Seismic Data | B. Dugan, Rice U.; P.B. Flemings, Pennsylvania State U.; R. Urgeles, U. Barcelona; D. Sawyer, Pennsylvania State U.; G.J. Iturrino, Lamont-Doherty Earth Observatory; J.C. Moore, U. of California C Santa Cruz; J. Schneider, Pennsylvania State U. |
| 1550 | 18772 | In-Situ Pore Pressure at IODP Site U1324, Ursa Basin, Gulf of Mexico | H. Long, P.B. Flemings, Pennsylvania State U.; J.T. Germaine, Massachusetts Inst. of Technology; B. Dugan, Rice U.; D. Sawyer, Pennsylvania State U.; Shipboard Scientific Party, IODP Expedition 308 |

1612 18812 **Fluid Migration and State of Stress Above the Blue Unit, Ursa Basin:
Relationship to the Geometry of Injectites** J.C. Moore, U. of California
Santa Cruz; G.J. Iturrino, Columbia U.; P.B. Flemings, Pennsylvania State U.;
I. Hull, U. of California Santa Cruz; A. Gay, Southampton Oceanography
Centre