IADC/SPE ASIA PACIFIC DRILLING TECHNOLOGY CONFERENCE AND EXHIBITION

Creating Value in Transforming Times

22-24 August 2016
Sands Expo & Convention Centre
Singapore
Meeting Room Guide

The conference programme is updated as at 15 August 2016
Programme Committee

Conference Chairman
Raphael Siri, SapuraKencana Drilling Pte. Ltd.

Technical Programme Chairman
Eoin Christie, SapuraKencana Drilling Pte. Ltd.

Technical Programme Committee Members
Feng Gui, Baker Hughes
Fredric Young, Dalma Energy
Manav Kumar, Dynamic Drilling Holdco. Pte. Ltd.
Mark Rivenbark, EnTrans Intl.
Peter Smith, GE Oil and Gas
Habil Akram Rosland, Halliburton
Robello Samuel, Halliburton-Landmark/Sperry Drilling Services
Arun Rajagopalan, Independent
David Chen, Independent
Michael Jellison, Independent
Matt Regan, Kongsberg Oil & Gas Technologies
Tommy Tan, Lloyd’s Register Energy - Drilling
Martin Ansbjørn, Maersk Drilling Malaysia Sdn. Bhd.
Jeremy Grzywa, NOV
Guillaume Plessis, NOV Grant Prideco
Suresh Kumar, Oil & Gas Consulting Firm
Karen Stanley, Petrofac
Bob Kerr, Scientific Drilling
Ozgur Senel, Schlumberger
Tomaso Ceciarelli, Schlumberger IPM
Rishi Srivastava, Shelf Drilling
Jaime Avendano, Shell Intl.
Wade Rebarde, Superior Energy Services LLC
Keith Rae, TAM Intl. Asia Pacific Pty. Ltd.
Basker Murugappan, TAQA
Johann Plank, Technische Universität München
Koji Sakura, Tenaris
Elie Daher, United Safety
Bernt S. Aadnoy, U. of Stavanger
Fikri Irawan, Weatherford
Robert F Ziegler, Weatherford Intl. Inc.
Message from the Conference Chairman

On behalf of the International Association of Drilling Contractors (IADC), the Society of Petroleum Engineers (SPE), and the Programme Committee, we are pleased to welcome you to Singapore for the eleventh IADC/SPE Asia Pacific Drilling Technology Conference (APDT).

SapuraKencana Petroleum Berhad is proud to be the Official Supporter of this region’s premier drilling technology event.

Asia Pacific continues to rank among the world’s top regions in terms of economic growth. In the recent Energy Information Administration (EIA) International Energy Outlook Report, a 48% increase in world energy consumption was predicted over the next 30 years, with over half the projected increase driven by Asia. Responding to the energy demand growth in challenging times requires increased emphasis on innovation to realise operational efficiencies. It is also imperative that we continue the successful collaboration between NOC, IOC, Drilling Contractors and Service Companies to advance our industry.

Under the theme, “Creating Value in Transforming Times”, the Programme Committee has drawn together a diverse and comprehensive technical programme that features over 100 papers presented in technical and ePoster sessions. We will also have the opportunity to hear insights and perspectives of industry leaders on challenges and opportunities in drilling technology during the opening session, executive plenary session and panel sessions.

In addition, this year’s event includes a vibrant technical exhibition allowing companies to showcase their latest innovative products and services related to drilling technology; providing an effective platform for industry professionals to share experiences, make connections, and to conduct business all under one roof.

We would like to thank all of the committee members, speakers, exhibitors, sponsors and participants for their continued support of this event.

We hope that you will take advantage of the opportunities for both professional and personal enrichment through active participation in the conference and exhibition over the next few days. Thank you for joining us for this important event.

Raphael Siri
2016 APDT Conference Chairman
CEO, SapuraKencana Drilling Pte. Ltd.
Welcome Reception

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Networking Luncheon - Day 1 & Conference Lanyards

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Weatherford
Drinking Water Stations
The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose members are engaged in energy resources development and production. SPE serves more than 143,000 members in 147 countries worldwide. SPE is a key resource for technical knowledge related to the oil and gas exploration and production industry and provides services through its publications, events, training courses, and online resources at www.spe.org.

D. Nathan Meehan, 2016 Society of Petroleum Engineers (SPE) President, is Senior Executive Adviser at Baker Hughes, advising executive management on reservoir and geoscience issues. Previously, he was President of CMG Petroleum Consulting, Vice President of Engineering for Occidental Oil & Gas; and General Manager Exploration and Production at Union Pacific Resources.

Meehan earned a BSc in Physics from the Georgia Institute of Technology, an MSc in Petroleum Engineering from the University of Oklahoma, and a PhD degree in Petroleum Engineering from Stanford University. He previously served as Chairman of the CMG Reservoir Simulation Foundation and as Director of the Computer Modelling Group, Vanyoganef Oil Company, Pinnacle Technologies, SPE Board of Directors, and JOA Oil & Gas BV. He served on advisory boards of the University of Texas and the University of Houston and currently serves on the EME industry relations board at Pennsylvania State, the Interstate Oil and Gas Compact Commission and the Advisory Board of World Oil. He is the recipient of the Lester C. Uren Award for Distinguished Achievement in Petroleum Engineering and the Degolyer Distinguished Service Medal and served as a Distinguished Lecturer. He is a licensed Professional Engineer in four states and has published scores of papers.
Since 1940, the International Association of Drilling Contractors (IADC) has exclusively represented the worldwide oil and gas drilling industry.

IADC’s mission is to catalyze improved performance for the drilling industry by enhancing operational integrity and championing better regulation to facilitate safer, cleaner and more efficient drilling operations worldwide. For more information, visit the IADC website at www.iadc.org.

2016 IADC Chairman
Thomas Burke
Rowan Companies plc

Thomas Burke was appointed Chief Executive Officer and elected a Director of Rowan Companies in April 2014. He served as Chief Operating Officer beginning in July 2011 and was appointed President in March 2013. Dr. Burke first joined the company in December 2009, serving as Chief Executive Officer and President of LeTourneau Technologies until the sale of LeTourneau in June 2011. From 2006 to 2009, Dr. Burke was a Division President at Complete Production Services, an oilfield services company, and from 2004 to 2006 served as its Vice President for Corporate Development. Prior to that, he worked at McKinsey & Company and Schlumberger.

Dr. Burke received a PhD in Engineering from Trinity College, the University of Oxford, a Bachelor’s in Engineering with honors from the Heriot-Watt University in Scotland, and an MBA from Harvard Business School, where he was awarded a Baker Scholarship.
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<td>0800 - 1700</td>
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<td>1200 - 1700</td>
<td>Conference HQ / Speaker and Author Check-In</td>
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<td>1100 - 1230</td>
<td>Panel Session 1: Can We Achieve Mutual Profitability in Transforming Times</td>
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## Tuesday, 23 August

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<td>Technical Session 13: Well Stimulation (Fracing and Acidizing) — Melati 4103</td>
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<td>Panel Session 2: Technology Development – Well Integrity and Brownfield Development — Melati 4102</td>
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## Wednesday, 24 August

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<td>Technical Session 16: Field Development and Mature Field Rejuvenation — Melati 4102</td>
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<td>Technical Session 17: Special Techniques in MPD, UBD and ERD — Melati 4103</td>
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## Thursday, 25 August

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<td>Training Course: A Proactive Approach to Ensure Well Integrity during the Construction and Operation of Wells — Calla Conference Room Business Centre, Level 3</td>
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## Friday, 26 August

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### Conference Programme Schedule

**Monday, 22 August**
- **0900-1000 hours**
  - Opening Session
- **1000-1030 hours**
  - Coffee Break / Ice Cream Social / Knowledge Sharing ePoster Sessions 1 and 2
- **1030-1200 hours**
  - Knowledge Sharing ePoster Session 4
- **1200-1400 hours**
  - Knowledge Sharing ePoster Session 8
- **1400-1530 hours**
  - Session 1: Drilling Bit Technology
  - Session 2: Innovative Technologies I
- **1530-1600 hours**
  - Coffee Break / Ice Cream Social / Knowledge Sharing ePoster Session 9
- **1600-1730 hours**
  - Knowledge Sharing ePoster Session 5
  - Geomechanics
  - Zonal Isolation
- **1730-1800 hours**
  - Knowledge Sharing ePoster Session 6
- **1730-1930 hours**
  - Networking Luncheon

**Tuesday, 23 August**
- **0900-1030 hours**
  - Coffee Break / Knowledge Sharing ePoster Session 1
- **1030-1200 hours**
  - Knowledge Sharing ePoster Session 2
- **1230-1400 hours**
  - Knowledge Sharing ePoster Session 3
- **1400-1530 hours**
  - Session 11: Geomechanics
  - Session 12: Drilling Technology II
- **1530-1600 hours**
  - Coffee Break / Knowledge Sharing ePoster Session 10
- **1600-1730 hours**
  - Knowledge Sharing ePoster Session 7
- **1730-1900 hours**
  - Networking Luncheon

**Wednesday, 24 August**
- **0900-1030 hours**
  - Coffee Break / Knowledge Sharing ePoster Session 11
- **1030-1200 hours**
  - Knowledge Sharing ePoster Session 12
- **1100-1230 hours**
  - Panel Session: Can We Achieve Profitable Transformation?
  - Panel Session: Technology Development: Well Integrity and Brownfield Development
- **1230-1400 hours**
  - Networking Luncheon
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<th>Session 1</th>
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<td>Development - Integrity and Development</td>
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<td>Drilling Mechanics, Directional Drilling and Hole Enlargement</td>
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Opening Session

Monday, 22 August • 0900 – 1000 hours
Melati Main Ballroom, Level 4

Raphael Siri
Conference Chairman

2016 IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition and CEO, SapuraKencana Drilling Pte. Ltd.

D. Nathan Meehan
2016 President

Society of Petroleum Engineers (SPE) and Senior Executive Advisor, Baker Hughes

Mike DuBose
Vice President, International Development

International Association of Drilling Contractors (IADC)

Chris Ong
Managing Director
Keppel FELS
Monday, 22 August • 1030 – 1200 hours
Melati Main Ballroom, Level 4

Moderator:

Dan Young, Head of Consulting, Asia Pacific,
Wood Mackenzie

Speakers:

Mark Langston
General Manager, Reservoir Management
Chevron Asia-Pacific E&P

Neil Horbachewski
Vice President, Centre of Excellence Upstream
PETRONAS

Do Van Khanh
Chairman of Board of Directors
Petrovietnam Drilling & Well Services Corporation (PV Drilling)

Raphael Siri
CEO
SapuraKencana Drilling Pte. Ltd.

Rajeev Sonthalia
President of IPM - Integrated Drilling Services
Schlumberger
Panel Sessions

PANEL SESSION 1: Can We Achieve Mutual Profitability in Transforming Times

Tuesday, 23 August • 1100 – 1230 hours
Melati 4102, Level 4

Session Chairpersons:
Manav Kumar, President & Director, Dynamic Drilling Holdco Pte. Ltd.
Eoin Christie, Director - Strategic Planning, SapuraKencana Drilling Pte. Ltd.

Speakers:
David Reid, Chief Marketing Officer, NOV
Vu Van Minh, Vice President, Petrovietnam Drilling and Well Services Corporation (PV Drilling)
Khairul Azmee Abdul Aziz, Operations and Development Manager, SapuraKencana Energy

PANEL SESSION 2: Technology Development – Well Integrity and Brownfield Development

Tuesday, 23 August • 1600 – 1730 hours
Melati 4102, Level 4

Speakers:
Peter Smith, NOV
Suresh Kumar, NOV Grant Prideco
Bob Kerr, Scientific Drilling

Hazli Sham Kassim, Willem Sepulveda, Chip Abrant, Brent Emerson
Panel Sessions

Session Chairpersons:
Peter Smith, Region Manager, GE Oil and Gas
Suresh Kumar, Oil & Gas Consultant
Bob Kerr, Director Cased Hole Services, Scientific Drilling

Speakers:
Hazli Sham Kassim, Senior General Manager, Integrated Hydrocarbon Management, Malaysia Petroleum Management, PETRONAS
Willem Sepulveda, Samarang Alliance Production Manager/Reservoir Integrity Head, Schlumberger
Chip Abrant, Senior Vice President of Global Operations and Sales, Scientific Drilling International
Brent Emerson, Vice President, APAC Sales & Marketing, Weatherford

PANEL SESSION 3: Safety Ownership during Technology Implementation for Effective Performance

Wednesday, 24 August • 1100 – 1230 hours
Melati 4102, Level 4

Session Chairpersons:
Guillaume Plessis, Director Global Marketing, NOV Grant Prideco
Tim Marsh, Director of Safety and Performance, SapuraKencana Drilling Pte. Ltd.

Speakers:
Fredric Young, Chief Executive Officer, Dalma Energy
Scott Dennon, Independent
David Reid, Chief Marketing Officer, NOV
Philip Williams, General Manager, OCS Group
Monday, 22 August ● 1400-1530 hours
TECHNICAL SESSION 1: DRILLING BIT TECHNOLOGY
Room Melati 4101AB, Level 4

Session Chairpersons:
Guillaume Plessis, NOV Grant Prideco
Suresh Kumar, Oil & Gas Consulting Firm

Time  Papers IADC/SPE  
1400 180499 Innovative Conical Diamond Element Bit Significantly Reduces Drilling Cost of Laterals  
J. Schilling and E. Cooley, Marathon Oil Co.; M. Azar, A. White, K. Koffler, S. McDonough, J. Self and B. Krough, Schlumberger

1422 180572 BHA Modelling and Application of Bi-Center Bit with Unique Vibration Dampening Tool to Improve Hole Opening Performance in Offshore HTHP Exploratory Well in Krishna Godavari Basin, India  
M. Lobo, C. Agarwal, D. Sharma, C. Lang, N. Brickell, M. Pathak and B. Chakraborty, Cairn India Ltd.

1444 180609 New Concentric Dual Diameter Fixed Cutter Technology Bit Drills 100% Faster and Saves Operator Drilling Time Through Challenging Abrasive Sandstone in One of the Largest Reservoirs in the Middle East  

1506 180525 Milling Reliability Curves as Decision-Making Tools in Cased Hole Sidetracking Applications  
D. Palomino, C. Pinard, S. Steinke and B. Moss, Schlumberger

Monday, 22 August ● 1400-1530 hours
TECHNICAL SESSION 2: COMPLETION TECHNOLOGY AND ENHANCED OIL RECOVERY
Room Melati 4102, Level 4

Session Chairpersons:
Tomaso Ceccarelli, Schlumberger IPM
Basker Murugappan, TAQA

Time  Papers IADC/SPE  
1400 180668 Expanding the Reach of Wireline Perforating  
S. Aboelnaga, A. Salsman, A. Martin, K. Singh, A. Pandey and C.E. Guedes, Schlumberger

1422 180672 A Unique ICD's Advance Completions Design Solution with Single Well Dynamic Modelling  
G. Goh, T. Tan and L.M. Zhang, Schlumberger

1444 180529 Evaluation of Miscible CO₂-Flooding to Improve Oil Recovery in a Clastic Heterogeneous Reservoir  
A.K. Al-Khazraji, Iraqi Ministry of Oil & U. Teknologi PETRONAS; M.B. Awang, U. Teknologi PETRONAS

1506 180623 Unitised Wellheads for Rajasthan Onshore Development Drilling - Proven Safer and Economical Wellhead Design Compared to Bowl and Slip Wellheads  
P. Sinha, A. Ranjan, P. Srivastava, S. Doodraj and C. Lang, Cairn India Ltd.
Monday, 22 August • 1400-1530 hours
TECHNICAL SESSION 3: WELL INTERVENTION
Room Melati 4001AB, Level 4

Session Chairpersons:
Bob Kerr, Scientific Drilling
Wade Rebardi, Superior Energy Services LLC

Time Papers IADC/SPE
1400 180547 Successful Case Histories of an Optimised Diversion System Applied in Stimulation Treatments in a Highly Naturally Fractured Carbonate Formation
C. Ramirez, K.R. Campos and A.D. Gonzalez, Halliburton

1422 180582 Challenging Development of Relief Wells: Active Magnetic Ranging in Highly Resistive Formations
A. Gosse, P. Schiermeier and H. Wu, Halliburton

1444 180600 The World’s First Gate Valve Milling on E-Line Returns Well to Production Faster and Safer
A. Al-Mulhim, A. Al-Shawly, I. El-Zefzafy, M. Al-Atwi and F. Al-Beheiri, Saudi Aramco; A. Azmey and W. Chehabi, Welltec

1506 180680 Samarang Downhole Integrity Diagnostic Techniques

Monday, 22 August • 1600-1730 hours
TECHNICAL SESSION 4: CEMENTING AND ZONAL ISOLATION
Room Melati 4101AB, Level 4

Session Chairpersons:
Arun Rajagopalan, Independent
Johann Plank, Technische Universität München

Time Papers IADC/SPE
1600 180630 Cementing Across 30 Varying Pressure Zones: A Case History of Overcoming Engineering Challenges
Y. Saeed, Baker Hughes; I.F. El-Sayed, ADCO

1622 180538 Achieving Zonal Isolation Objectives in Carbon Dioxide Rich Gas Production Environment in South East Asia
T. Chikara, A. Salehpour and C. Azwar, Schlumberger

1644 180578 Investigating the Benefits of Rotating Liner Cementing and Impact Factors

1706 180656 First Implementation of a Resilient and Self-Sealing Cementing System to Optimise Long-Term Zonal Isolation in Challenging Offshore Wells - Review of 3 Case Histories in Malaysia
A. Brandl, A. Alegría, M. Ismail, G. Dean and A.R. Mohd Mahaiyudin, Baker Hughes
Monday, 22 August ● 1600-1730 hours
TECHNICAL SESSION 5: DEEPWATER DRILLING AND COMPLETION
Room Melati 4102, Level 4

Session Chairpersons:
Habil Akram Rosland, Halliburton
Shankar Bhukya, NOV Grant Prideco
Koji Sakura, Tenaris

Time Papers IADC/SPE
1600 180593 Using MPD Techniques to Effectively Drill Differently Pressured Layered Sand Reservoirs on Deepwater Development Wells Offshore Malaysia
H. Pinkstone, R. Doll and M. Chandra, Managed Pressure Operations; W. Babcock, V. Tilley and B. Choo, Murphy Oil Co.

1622 180559 Comprehensive Annular Pressure Buildup Mitigation Strategy by Modifying Top of Cement Placement Design in Loss Circulation Zone, Case Study: A Deepwater Well in Indonesia

1644 180646 Mechanical Specific Energy for Drilling Optimisation in the Deepwater Brazilian Salt Environments
C.N. Pinto and A.L.P. Lima, Halliburton

1706 180635 Dual Hole Enlargement in Deepwater Exploration - Case History from 12-1/4” to 20” and 17-1/2”
R. Rios, LR Senergy; N.F. Nik Mohd Najmi and N.H. Pham, Schlumberger; D. Irvine, K. Jonhstone and J. Nicolson, LR Senergy

Monday, 22 August ● 1600-1730 hours
TECHNICAL SESSION 6: CHALLENGING PROJECTS THAT OVERCAME ADVERSITY
Room Melati 4001AB, Level 4

Session Chairpersons:
Fredric Young, Dalma Energy
Tommy Tan, Lloyd’s Register Energy - Drilling
Basker Murugappan, TAQA

Time Papers IADC/SPE
1600 180678 Proving the Value of Logging-While-Drilling Seismic Technology in a Challenging Offshore Exploration Setting
A. Ahmed and A. Soh, Schlumberger; L. Morris, T. McMahon and M. Fernandez, ConocoPhillips

1622 180639 Case Study: Kazakhstan’s First Application of Inflow Control Devices (ICDs) for Horizontal Wells

1644 180688 Innovative Approach in Sidetracking Wells in Kuwait Brown Field Development Reduces Drilling Hazards and Improves Well Productivity
M. Alkhaldy, D. Alsaadi, N. Al-Shuaibi and Shaikhah Al-Omari, Kuwait Oil Co.; S. Mustafa, M. Mobasher, A. Elsherif, H. Al Dalali, R. Saleh, C.J. Keot and P. Nair, Schlumberger

1706 180658 Successful PMCD Application Significantly Improved Drilling Efficiency on Carbonate Drilling
N.H. Houn, I. Rubianto, A.R. Abuelaish and M.A.B. Abdullah, M-I SWACO, a Schlumberger Co.
### Technical Sessions

**Tuesday, 23 August ● 0900-1030 hours**

**TECHNICAL SESSION 7: INNOVATIVE TECHNOLOGIES I**
Room Melati 4101AB, Level 4

**Session Chairpersons:**
Feng Gui, **Baker Hughes**
Habil Akram Rosland, **Halliburton**
Matt Regan, **Kongsberg Oil & Gas Technologies**

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<th>Time</th>
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<tr>
<td>0900</td>
<td>180685 Advanced Drilling Simulation and Engineering Center</td>
<td>Provide Support for Challenging Drilling Operations in the South China Sea</td>
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<td>Y. Hu and W. Gang, CNOOC; R. Rommetveit, A. Chusov and S. Helgeland, eDrilling; L. Namork; Oiltec Solutions</td>
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<td>0922</td>
<td>180580 Dare to Change: An Approach to Implement Enterprise Level of Real Time</td>
<td>Well Solution for Collaborative Working Environment</td>
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<td>Time Solution</td>
<td>A. Mohamad, N. Yusoff and S. Aris, PETRONAS; D. Bismo and M. Regan, Kongsberg Oil and Gas Technologies</td>
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<td>0944</td>
<td>180577 Real-Time and Wireless Monitoring of Wellhead and Conductor Fatigue</td>
<td>S. Gauthier, Pulse Structural Monitoring Ltd.</td>
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<td>1006</td>
<td>180568 State-of-the-Art Open Hole Tractor Enables Accurate Pressure Measurement</td>
<td>in a Horizontal Wells, Resulting in Significant Rig Time Saving</td>
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<td>in a Horizontal Wells, Resulting in Significant Rig Time Saving</td>
<td>M.D. Al-Khaldy, A. AlRashidi, K. Al Failakawi and A. Dutta, Kuwait Oil Co.; H. Ayyad, O. Mansour, M. AlMahdy and S. Jamal, Schlumberger</td>
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**Tuesday, 23 August ● 0900-1030 hours**

**TECHNICAL SESSION 8: DRILLING FLUIDS**
Room Melati 4102, Level 4

**Session Chairpersons:**
Arun Rajagopalan, **Independent**
Johann Plank, **Technische Universität München**

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<td>0900</td>
<td>180690 Application of High Density Non-Aqueous Fluid Technology</td>
<td>in the Efficient Development and Production of Super-Deep Complicated Formations in the Tian Mountain Front Block</td>
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<td>0922</td>
<td>180633 Innovative Low-ECD Organo-Clay-Free Invert Emulsion Fluid (OCF-IEF)</td>
<td>System Helped Operations Hit Target</td>
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<td>R. Mahrous, T. Barkmann and N. Elshout, Halliburton; J. Savignat, S. Lebabidi and P. Rijinen, Shell</td>
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<td>0944</td>
<td>180596 A Successful Implementation of Broad Spectrum Blend of Sized Biodegradable</td>
<td>Fibrous Organic Loss Circulation Material to Combat Total Loss in Cisubuh Upper Formation, North West Java Basin, Indonesia</td>
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<td>M. Taufik, A. Kurniawan and T. Arhammar, PHE ONWJ; A. Widyaehening, PT OBM Drilchem</td>
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<td>1006</td>
<td>180504 Coefficient of Friction Reducing Efficiency of ARC Eco-Lube</td>
<td>M. Amanullah, Saudi Aramco</td>
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**Technical Sessions**

**Tuesday, 22 August ● 0900-1030 hours**

**TECHNICAL SESSION 5: DEEPWATER DRILLING AND COMPLETION**
Room Melati 4103, Level 4

**Session Chairpersons:**
Fredric Young, Dalma Energy
Shankar Bhukya, NOV Grant Prideco

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<td>0900</td>
<td>180518</td>
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<td>Global Correlation of Rock Brittleness Indices with Petrophysical and Geomechanical Properties and Its Application to the Prediction of Rate of Penetration (ROP)</td>
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<td>J. He, Texas A&amp;M U.; Y. Chen, Rice U.; Z. Liu and R. Samuel, Halliburton</td>
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<td>0922</td>
<td>180661</td>
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<td>Optimising Drilling Operating Parameters with Real-Time Surveillance and Mitigation System of Downhole Vibration in Deep Wells</td>
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<td>F. Zhao, H. Wang and M. Cui, CNPC Drilling Research Inst.</td>
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<td>Gulfaks Satellite First Successful Rat Hole Elimination Design in Tight Anti Collision Scenario</td>
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<td>H. Khalil, J. Blackburn and H.A. Beeh, Schlumberger; G. Skofterby and R. Kallestad, Statoil ASA</td>
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<td>1006</td>
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<td>Advanced Dynamic Drillstring Modelling Delivers Efficient Underreaming and Rathole Elimination Solutions</td>
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**Tuesday, 23 August ● 1100-1230 hours**

**TECHNICAL SESSION 10: WELL DESIGN AND SMART WELLS**
Room Melati 4103, Level 4

**Session Chairpersons:**
Peter Smith, GE Oil and Gas
Wade Rebardi, Superior Energy Services LLC

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<td>1100</td>
<td>180579</td>
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<td>Optimising Offshore Infill Drilling: Application of Conductor Sharing and Casing Drilling Techniques</td>
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<td>Effects of Injection Pressure on Wellbore Stress Using Flow-Stress Coupling Method</td>
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<td>A Comprehensive Survey Management Workflow</td>
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<td>P. Schiermeier and J.A. Greenwood, Halliburton</td>
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<td>1206</td>
<td>180584</td>
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<td>Productivity Index Coupled with Drilling Risk Index: Application to Geosteering</td>
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<td>P.P. Pena and K. Nunna, Texas A&amp;M U.; G. Urdaneta and R. Samuel, Halliburton</td>
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### TECHNICAL SESSION 11: GEOMECHANICS

**Room Melati 4101AB, Level 4**

**Session Chairpersons:**
Feng Gui, **Baker Hughes**  
David Collecott, **Weatherford**

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<td><strong>1400</strong></td>
<td><strong>180550</strong></td>
<td>Pore Pressure Estimation and Calibration for Longmaxi Gas Shale in Sichuan Basin, China</td>
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<td><strong>1422</strong></td>
<td><strong>180519</strong></td>
<td>Widened Safe Mud Window for Naturally Fractured Shale Formations: A Workflow and Case Study</td>
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<td>X. Shen, Halliburton</td>
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<td><strong>1444</strong></td>
<td><strong>180553</strong></td>
<td>Integrity Assessment and Countermeasures of Wells Through Reactivated Faults in a Uganda Oilfield</td>
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<td>J. Li, CNOOC Uganda Ltd.; F. Yin and D. Gao, China U. of Petroleum, Beijing; Z. Yang, M. Xiang and C. Huang, CNOOC Uganda Ltd.</td>
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<tr>
<td><strong>1506</strong></td>
<td><strong>180556</strong></td>
<td>Integrated Holistic Approach to Drill Middle-East Region Sensitive Shales Successfully: Example of Ahmadi, Wara and Middle Burgan Shales in Kuwait</td>
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<td><strong>180560</strong></td>
<td>A.N. Khan, S.M.D. Marie and T.A. Gawwad, Kuwait Oil Co.; S.K. Subbiah, C.P. Tan and M. Povstyanova, Schlumberger</td>
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**Tuesday, 23 August ● 1400-1530 hours**

### TECHNICAL SESSION 12: DRILLING TUBULARS

**Room Melati 4102, Level 4**

**Session Chairpersons:**
Koji Sakura, **Tenaris**  
Fikri Irawan, **Weatherford**

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<tr>
<td><strong>1400</strong></td>
<td><strong>180659</strong></td>
<td>An Integrated Workflow Methodology of Tubular Design Analysis for Deepwater Wells with Subsea Wellhead System</td>
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<td><strong>1422</strong></td>
<td><strong>180612</strong></td>
<td>An Innovative Pipe Grade to Enhance Reach of Deeper Prospects in Sour Fields</td>
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<td>G.J. Plessis, A. Uttech, T. Pink and L. Hehn, National Oilwell Varco (NOV); M.J. Jellison; B. Vinson, Sub Surface Tools</td>
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<td><strong>1444</strong></td>
<td><strong>180625</strong></td>
<td>Optimising Well Service Jobs in Jatibarang Field by Applying Tubing Tester Plug Tools</td>
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<td>A. Aditya, C.Y. Handayani and Rahadiyanto, Pertamina EP</td>
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<td><strong>1506</strong></td>
<td><strong>180599</strong></td>
<td>A Study of Technical Specifications for High Grade Casing in Deep Wells</td>
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Tuesday, 23 August ● 1400-1530 hours
TECHNICAL SESSION 13: WELL STIMULATION (FRACING AND ACIDIZING)
Room Melati 4103, Level 4

Session Chairpersons:
Tomaso Ceccarelli, Schlumberger IPM
Basker Murugappan, TAQA

Time Papers IADC/SPE
1400 180546 A Case Study: Field Application of Ultra-High Temperature Fluid in Deep Well
L. Wang, B. Cai, X. Qiu, Y. Lu and W. Zhai, Research Inst. of Petroleum Exploration and Development, Langfang Branch, PetroChina

1422 180588 Delayed Crosslinking Composition or Reaction Product Thereof for Treatment of a Subterranean Formation
S.D. Agarwal, Halliburton

1444 180590 A Semi-Empirical Carbonate Acidizing Model for Chelating-Agent-Based Fluids
V.S. Baghel and J. Pravesh, Halliburton

1506 180595 A New High-Temperature Shear-Tolerant Supramolecular Viscoelastic Fracturing Fluid

Tuesday, 23 August ● 1600-1730 hours
TECHNICAL SESSION 14: HSE, COMPETENCE AND RISK MANAGEMENT
Room Melati 4103, Level 4

Session Chairpersons:
Fredric Young, Dalma Energy
Fikri Irawan, Weatherford

Time Papers IADC/SPE
1600 180575 "Fixing" Human Error as Part of Major Hazard Event Management (MHE)
P.V. Bridle, Pegasus Risk Management

1622 180531 Reducing Risk: Questions Oil and Gas Leaders Need to Ask and Answer
T. Matthews, DEKRA Insight

1644 180620 Drilling Competency Model, a Case Study of an Upstream Oil & Gas Company

1706 180670 Bespoke Fast-Track Training Programme Proves Successful for Major Drilling Contractor in Singapore
M. Gibson, IDEAS (S) Pte. Ltd.
### Technical Sessions

**Wednesday, 22 August ● 0900-1030 hours**

#### TECHNICAL SESSION 15: INNOVATIVE TECHNOLOGIES II

Room Melati 4101AB, Level 4

**Session Chairpersons:**

Habil Akram Rosland, Halliburton
Matt Regan, Kongsberg Oil & Gas Technologies
Wade Rebardi, Superior Energy Services LLC

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<tr>
<td>0900</td>
<td>180506 Method and Apparatus to Reduce the Probability of Differential Sticking</td>
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<td>M. Amanullah and M.K. Al-Arfaj, Saudi Aramco</td>
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<td>0922</td>
<td>180555 Extending Life for Offshore Wells by Fixing the Integrity (High Annu...</td>
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<td>A.A. Ansari, D. Ringrose and Z. Libdi, Zakum Development Co.; A.G. Larsen, HydraWell Intervention</td>
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<td>0944</td>
<td>180675 Study of Acrylic Acid-co-Polyethylene Glycol Allyl Ether as Cement Retarder Over a Broad Temperature Range</td>
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<td>A. Brandl, Baker Hughes</td>
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<td>1006</td>
<td>180571 Successful Application of Self-Degradable Lost Circulation Control Pill in Managed Pressure Drilling for a Deepwater Well</td>
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<td>D. Nana, Schlumberger; G. Buyers, D. Burton, J. Gomes, E. Pulpan and A. Tickoo, REPsol; A.W. Meyer, M. Munoz Rivera, N. Silko and D. Demidov, Schlumberger</td>
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**Wednesday, 24 August ● 0900-1030 hours**

#### TECHNICAL SESSION 16: FIELD DEVELOPMENT AND MATURE FIELD REJUVENATION

Room Melati 4102, Level 4

**Session Chairpersons:**

Taylor Bowles, NOV
Basker Murugappan, TAQA

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<tr>
<td>0900</td>
<td>180551 Successful 20 Well Stimulation Campaign in a Mature Oil Field in Myanmar</td>
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<td>J.R. Shaoul and I. Tkachuk, Fenix Consulting Delft; D.J. Chia and T. Nyo, MPRL E&amp;P Pte. Ltd.; J. Eng, NEHL</td>
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<td>0922</td>
<td>180512 Risk Reduction in the Acquisition of Formation Evaluation Data with the Development of Small-Diameter Open-Hole Logging Tools</td>
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<td>P.J. Williams, T. Mayor, A. Pereira, S. Lawrance, J.R. Samworth, T. James and H. Patel, Weatherford UK</td>
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<td>0944</td>
<td>180674 Efficient Approach for Optimal Well Placement to Optimise the Underwater Distributary-Channel Laminated Reservoir Development in Offshore South China</td>
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<td>Y. Wu and J. Li, CNOOC, Shenzhen; B. Chang and C. Wang, Schlumberger</td>
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<td>1006</td>
<td>180586 An Integrated Workflow to the Success of Complex Tight-Gas Reservoirs Development North of India: Case Study</td>
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<td>S. Abdelaziz, J. Leem and A.S. Praptono, Halliburton; P. Shankar, B. Mund, A.K. Gupta, R. Goyal and P. Sidharth, Cairn India Ltd.</td>
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### Technical Sessions

**Wednesday, 24 August ● 0900-1030 hours**

**TECHNICAL SESSION 17: SPECIAL TECHNIQUES IN MPD, UBD AND ERD**
Room Melati 4103, Level 4

**Session Chairpersons:**
Guillaume Plessis, NOV Grant Prideco
Fikri Irawan, Weatherford

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<td>Identification of Shallow Gas Leaks Through Multiple Strings Using Slickline with Fiber-Optic Distributed Temperature Sensing</td>
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<td>Best Practices and Lessons Learned on the Application of Managed Pressure Drilling (MPD) Technology for High Pressure High Temperature (HPHT) Wells in Vietnam</td>
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<td>B. Ta Quoc, C.Y. Tan, H.K. Dalgit Singh and V. Pham Nguyen, Weatherford Asia Pacific</td>
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<td>Supercharging Assessment in Formation Pressure Measurements Made While Drilling by Deliberately Pulsed Circulation in a Chalk Reservoir</td>
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<td>A.G. Ceyhan and M. Bravo, Schlumberger; K. Walrond, U. of Stavanger</td>
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<td>A Simple Mathematical Model for Predicting Temperature Profile in Underbalanced Drilling</td>
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<td>L. Shan, Northeast Petroleum U.; B. Guo, U. of Louisiana at Lafayette; N. Wei, Southwest Petroleum U.</td>
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**Wednesday, 24 August ● 1100-1230 hours**

**TECHNICAL SESSION 18: HPHT**
Room Melati 4103, Level 4

**Session Chairpersons:**
Suresh Kumar, Oil & Gas Consulting Firm
Bob Kerr, Scientific Drilling
Fikri Irawan, Weatherford

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<td>HPHT Field Development Experience Transfer</td>
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<td></td>
<td>A Well Control Approach with Managed Pressure Drilling (MPD) on HPHT Wells in Vietnam - Case History</td>
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<td>B.T. Quoc, C.Y. Tan, H.K. Dalgit Singh and V. Pham Nguyen, Weatherford Asia Pacific</td>
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<td>1144</td>
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<td>Effective Calculation Model of Drilling Fluids Density and ESD for HTHP Well While Drilling</td>
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<td>Taking the Heat: Logging While Drilling at Extreme Temperatures</td>
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<td>T. Parker and P. Cooper, Halliburton</td>
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An ePoster is an electronic version of the traditional poster, presented on a large digital flat screen. The electronic format offers the added benefit of animation and video to enhance the visual experience and provide greater interactivity between attendees and authors.

During the ePoster session, authors will present their technical papers at designated ePoster stations. Attendees are encouraged to attend the sessions for more knowledge sharing and networking opportunities. ePosters are also available for attendees’ viewing at ePoster stations throughout the conference.

**ePOSTER PRESENTATION SCHEDULE**

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<td>ePoster stations are located at the exhibition area in the Orchid Main Ballroom, Level 4</td>
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<td>Tuesday 23 August 2016</td>
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<td>Wednesday 24 August 2016</td>
<td>1030 – 1100 hours</td>
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**STATION 1**

**Monday, 22 August**

**Time** | **Papers**
---|---
**1300** | **180535** The Principle and Application of a Novel Rotary Percussion Drilling Tool Drived By Positive Displacement Motor  
L. Xuan, Z. Guan, H. Hu, J. Li and B. Zhang, China U. of Petroleum (East China)  
(Alternate Paper in Technical Session 1)

**1330** | **180539** Study on Structure Parameters of Reverse Circulation Drill Bit Secondary Injector Device Based on Injector Coefficient  
(Alternate Paper in Technical Session 1)

**1530** | **180542** Appropriate Completion to Prevent Potential Damage of Annular Pressure Buildup in Deepwater Wells  
B. Zhang, Z. Guan, Q. Wang, L. Xuan, Y. Liu and Y. Sheng, China U. of Petroleum (East China)  
(Alternate Paper in Technical Session 5)

**1730** | **180597** A Coupled Model for Predicting Flowing Temperature and Pressure Distribution in Drilling Ultra-Short Radius Radial Wells  
X. Li, G. Li and H. Wang, China U. of Petroleum, Beijing;  
P. Lu, Sinopec Research Inst. of Petroleum Engineering;  
S. Tian, R. Yang and M. Wang, China U. of Petroleum, Beijing  
(Alternate Paper in Technical Session 16)
**Tuesday, 23 August**

**Time Papers**

1030 180662 The Development of a Viscosifier for Clay Free and Water Based Drilling Fluid with High Density and High Temperature Resistant
X.M. Zhang, G.C. Jiang, Y. Xuan, L. Wang and X.B. Huang, China U. of Petroleum, Beijing
(Alternate Paper in Technical Session 8)

M. Gibson, IDEAS (S) Pte. Ltd.
(Alternate Paper in Technical Session 14)

1530 180565 A Novel Environmentally Friendly Lubricant for Water-Based Drilling Fluids as a New Application of Biodiesel
(Alternate Paper in Technical Session 8)

1730 180613 A Local Mechanical Model of Down-Hole Tubular Strings and Its Amendment on the Integral Model
W. Huang and D. Gao, China U. of Petroleum, Beijing
(Alternate Paper in Technical Session 9)

**Wednesday, 24 August**

**Time Paper**

1030 180543 Experiment and Numerical Calculation Study on the Influence of Fracture Deformation to Tight Oil Production
L. Sun, Y.T. Liu, P. Yu, X.P. He, X. Zhao, Y.L. Feng, Petroleum Engineering Inst., China U. of Petroleum, Beijing; J. Liu, Research Inst. of Petroleum Exploration and Development
(Alternate Paper in Technical Session 16)

**Monday, 22 August**

**Time Papers**

1300 180619 Density and Viscosity Prediction of Super Lightweight Completion Fluid (SLWCF) at Reservoir Conditions
(Alternate Paper in Technical Session 2)

1330 180689 Samarang Well Intervention Performance Evaluation for Production Enhancement Portfolio
(Alternate Paper in Technical Session 3)
Enhanced Drilling Capabilities with Innovative Drill Ship Design

1030 180562 Improving Directional Survey Accuracy Through Real-Time Operating Centers
S. DeVorse, Surcon Ltd.; S. Maus, Magnetic Variation Services LLC (Alternate Paper in Technical Session 7)

1330 180562 Managing BHA Components Integrity with a Fatigue Management Workflow
H. Suryadi, K. Li, K. Brovko, E. Parkin and S. Ossia, Schlumberger (Alternate Paper in Technical Session 7)

1530 180537 Physical Concept Validation Testing Performed for a Time Papers

1730 180567 The New Analysis Method of Permeability

Continuous Operation Model in Multi-Well Pad W202H2: First Shale Gas Factory in Block Weiyuan, SW China
M. Liu, CNPC Great Wall Drilling Co. (Alternate Paper in Technical Session 15)

Innovative Approach Helps Operator Drill Faster and Achieve Benchmark ROP Over Offset Runs in Southern Kuwait
Y.A. Baqer, K. Eid and E.K. Ebrahim, Kuwait Oil Co.; O. Ghoneim, A. Jokhi, S. Hassan, P. Nair and K. Helal, Schlumberger (Alternate Paper in Technical Session 1)

Implementation of an Engineered, Fiber-Based Spacer Solution for Improved Mud Removal - Thailand Case History
### Tuesday, 23 August

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<tr>
<td>1730</td>
<td>180618</td>
<td>Application of “Well Factory” Drilling Technology in Shale Gas Development in the Sichuan Basin</td>
<td>Y. Liu, P. Chen and T. Ma, Southwest Petroleum U.</td>
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**Time Papers**

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<tr>
<td>1030</td>
<td>180537</td>
<td>Physical Concept Validation Testing Performed for a Pore and Fracture Pressure Margin Prediction System During Offshore MPD Operations</td>
<td>A. Johnson, B. Piccolo and C. Leuchtenberg, Managed Pressure Operations, a part of MH Wirth</td>
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<td>1330</td>
<td>180669</td>
<td>Experimental Investigation of Geometry and Aggregation Effect of Particles on Induced Formation Damage by Nano Water-Based Drilling Fluid in Directional Wells</td>
<td>M. Sedaghatzadeh and K. Shahbazi, Petroleum U. of Technology; M.H. Ghazanfari, Sharif U. of Technology; G. Zaargar, Petroleum U. of Technology</td>
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<td>1530</td>
<td>180515</td>
<td>Conical Diamond Element Technology Delivers Step Change in Directional Drilling Performance</td>
<td>V. Radhakrishnan, Schlumberger Overseas S.A.; A. Chuttani, PTTEP; F. Anggraini, H. Nan and S. Onkvisit, Schlumberger Overseas S.A.</td>
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<td>1730</td>
<td>180640</td>
<td>A Lean-Based Drilling Operations: A New Approach for NPT Reduction</td>
<td>A.E.A. Basbar, Swift Technical Solutions; A. Al Kindi, Quartet Solutions; A. Al Kharusi, Swift Technical Solutions</td>
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(Alternate Paper in Technical Session 17)
STATION 4

Monday, 22 August

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| 1300  | 180673 | Application Focused Drill Bit Engineering Delivers Consistent Improvement in Efficient Drilling Performance  
W. Agawani, Baker Hughes; A. M. Al-Ajmi, Kuwait Oil Co.; M. Taha, Baker Hughes; A. Gohain, Kuwait Oil Co.; M. Omar, Baker Hughes; H.A. Al-Haj, Kuwait Oil Co.; A. Abdelhamid, Baker Hughes  
(Alternate Paper in Technical Session 1) |
| 1330  | 180527 | Enhancing Zonal Isolation with Expandable Cement System for Gas Field  
E. Tanoto, R. Kusumawatie, F. Inayah, I. Widyarsa and M.F. Jaffery, Schlumberger  
(Alternate Paper in Technical Session 4) |
| 1730  | 180603 | The Application of Robotic Drilling Systems in Extreme Environments  
M. Watt, R. Rafati and H. Hamidi, The U. of Aberdeen  
(Alternate Paper in Technical Session 17) |

Tuesday, 23 August

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| 1030  | 180626 | GeoSteering in Complex Channel Sand Architecture, a Reality Now with High Definition Deep Directional Multi Boundary Detecting Technology: Case Study from Greater Burgan Field, Kuwait  
(Alternate Paper in Technical Session 7) |
| 1330  | 180605 | Collaborative BHA Design Optimisation Modelling Leads to a Successful Run in a Challenging Formation  
B. Noviasta and S. Awaliyah, Schlumberger; B.D. Hasudungan, Citic Seram Energy Ltd.  
(Alternate Paper in Technical Session 9) |
| 1530  | 180653 | 4D FEA Simulation Assisted Pre-Job Planning Achieved Record-Breaking ROP and Delivered Longest Horizontal Section Well in West China  
S. Wang, X. Wang and X. Bai, D&M Schlumberger; J. Gao, BDT Schlumberger; J. Wan, CNPC XiBu Drilling Co.  
(Alternate Paper in Technical Session 9) |
| 1730  | 180638 | Employing Process, Benchmark Automation, and Real-Time Analysis to Improve Drilling Efficiency  
A. Taylor, A. Wesley, R. Adari and L. Kurian, Halliburton  
(Alternate Paper in Technical Session 14) |
Knowledge Sharing ePoster Sessions

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<td>Damage of Fracture Face Skin in Massive Hydraulic Fracture Stimulation</td>
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<td>180645</td>
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<td>Case History: Development of Expandable Liner Hanger for Use in New Heavy Wall Casing Design in Gulf of Mexico</td>
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STATION 6

Monday, 22 August

Time  Papers
1330  180541  A Brief Introduction to High Temperature and Foam Free Water Based Drilling Fluids
(Alternate Paper in Technical Session 18)

1330  180681  Study on Corrosion Mechanism of Sour Gas to Cement Stone
Y. Zeng and S. Zhou, SINOPEC Research Inst. of Petroleum Engineering  
(Alternate Paper in Technical Session 4)

1730  180554  Extending Life of Mature Oil Wells with Various Type of Siphon String Application in Offshore North West Java
K. Wibowo, B. Widyantoro and R.C. Kurniawan, PT Pertamina Hulu Energi ONWJ; Y. Azizan, Halliburton Energy Services Group  
(Alternate Paper in Technical Session 17)

Tuesday, 23 August

Time  Papers
1030  180686  An Innovative Model Assisted Drilling Fluid Optimisation Using Iterative Solids/Filtrate Invasion Simulation to Maximise Well Productivity
M.I. Aljabbar and R. Rizkiaputra, Bandung Inst. of Technology  
(Alternate Paper in Technical Session 8)

1330  180591  Time-Based Drilling Dynamics Modelling Provided BHA Solutions to Motor Development
J. Shi, Y. Shen, G. Zheng and G. Xu, Schlumberger  
(Alternate Paper in Technical Session 9)

1530  180664  How Dynamic Hydraulic and Well Control Modelling Has Been Utilised for Planning, Well/Rig Specific Training and RT Supervision for HPHT, MPD and DGD Operations in an Integrated Lifecycle Simulation System
(Alternate Paper in Technical Session 17)

1730  180679  Well Side-Track Optimisation Using Electromagnetic and Ultrasonic Measurements Across Dual Strings for Well Integrity Assurance
(Alternate Paper in Technical Session 14)

Wednesday, 24 August

Time  Paper
1030  180552  Logging While Drilling (LWD) Formation Pressure Testing Technology Enables Better Reservoir Understanding and Completion Optimisation
P. Tran, Baker Hughes; G. Jones, Esso Australia; N. Bokides, Baker Hughes  
(Alternate Paper in Technical Session 16)
Monday, 22 August

Time  Papers
1300  180564 Tailored Innovative Bit Technologies Lead to Significant Cost Saving and Performance Improvement in the Ultra-Deep Formation of Tarim Basin in West China
X. Teng, PetroChina; L. Zhao, CNPC USA; Z. Xu, PetroChina; X. Cheng, CNPC USA; N. Li, PetroChina; D. Chen, CNPC USA; S. Feng and B. Zhou, PetroChina; X. Yang, CNPC USA; T. Zhang, PetroChina; Y. Liu, CNPC USA
(Alternate Paper in Technical Session 1)

1330  180514 The Application of Cluster Drilling Technology in High Pressure Salt Gypsum Formation in Swamp Wetland of N.A Oilfield of Iran
L. Ping, X. Wang and K. Zou, CNPC Drilling Research Inst.
(Alternate Paper in Technical Session 6)

1530  180606 Improving Oil Recovery in Complex Heterogeneous Reservoirs of Highly Mature Oil Fields Through Innovative Measurement and Strategies: A Case Study from South China Sea
Y. Wu and Y. Zhang, CNOOC-Shenzhen; and C. Wang and B. Chang, Schlumberger
(Alternate Paper in Technical Session 7)

1730  180574 Post Well Pore Pressure Analysis Facilitated by Managed Pressure Drilling
A.W. Brands and M. Mir Rajabi, Weatherford Secure Drilling Services
(Alternate Paper in Technical Session 8)

Tuesday, 23 August

Time  Papers
1030  180520 Formulating Water-Based Muds for High Temperature Wellbores Using Potassium Formate Brine and Synthetic Polymers: A Design of Experiment Approach
T.N. Ofei and R.M. Al Bendary, U. Teknologi PETRONAS
(Alternate Paper in Technical Session 9)

1330  180636 Dynamic Valuation Methodology for Fatigue Failure of Drill String
(Alternate Paper in Technical Session 11)

1530  180632 Governance and Guidelines for Remote Health in Asia
D. Teo, Intl. SOS Pte Ltd.
(Alternate Paper in Technical Session 14)

1730  180560 Mathematical Model Provides Annular Temperature Profile for Thermal Hydraulics in Drilling Gas Hydrates
B. Guo and G. Li, Southwest Petroleum U.; L. Shan, Northeast Petroleum U.; B. Li, U. of Louisiana at Lafayette
(Alternate Paper in Technical Session 14)

Wednesday, 24 August

Time  Paper
1030  180544 Case Study of Enhancing Wellbore Strengthening While Drilling Subnormal and Overpressured Formation Types
J. Breuer, E. Mammadov, W. Al-Hashmy and A.Y. Sadat, Weatherford Canada
(Alternate Paper in Technical Session 17)
Course Description
Well integrity management is looked at in three distinct stages, the first stage is during the well design which includes material selection, engineering design, cement design, coating and inhibitors and cathodic protection. The second stage is monitoring the well during the life of the well locating possible leaks and/or loss of metal. The last stage is to manage and control any well integrity issues using specialised products, services and techniques.

This course will:
• Define the building blocks of a successful well integrity management programme
• Define well integrity well categorisation based on compliance to the barrier policy outlined in the regulations and develop an approach to risk management
• Well barriers and their verification
• Monitoring and Surveillance of well integrity (focus on cementing)
• Monitoring and Surveillance of well integrity (focus on corrosion)
• Understand the well integrity ISO Standard

Who Should Attend?
The intended audience of this workshop are engineers and production technologists who are involved in well planning, design, construction, drilling, completion, production, well intervention and safety.

Instructor Biography
Salim Taoutaou is the Cementing and Well Integrity Technical Advisor for Schlumberger. He manages the global development of the well integrity cementing domain strategy, providing optimal well integrity cementing solutions for clients. Through his 18 years in the oil and gas industry, he has held various positions in the North Sea region, the Middle East and Asia. He has authored more than 43 international journal and conference papers, is the holder of two patents and was the recipient of the SPE 2014 Asia Pacific Regional Technical Award in Drilling Engineering. He has been involved in the development of several cementing technologies and holds several patents in these areas. Salim has always been very active with SPE; he served in different steering committees, playing different various roles such as co-chairman, committee member participation and as a discussion leader on several SPE Advanced Technology Workshops, SPE Forum Series and Technical Conferences.
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<td>Universiti Teknologi PETRONAS</td>
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- Pedestal, Knuckle Boom Cranes
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- Pressure Control
- BOP Stacking
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Upon arrival at conference venue, panel speakers, presenting authors and session chairpersons are required to check-in at the Author Check-In Room, and to load/review their PowerPoint slides. No further changes to PowerPoint slides will be accepted less than four hours before the session.

Registration
Onsite registration and advance badge collection are located at the Orchid Ballroom Foyer on Level 4 of the Sands Expo and Convention Centre. Registration hours are as follows:

**1200-1700 hours, Sunday, 21 August**
**0730-1930 hours, Monday, 22 August**
**0730-1900 hours, Tuesday, 23 August**
**0730-1400 hours, Wednesday, 24 August**

Digital Conference Proceedings
Digital conference proceedings are available for collection at the SPE booth located at booth C01 in the Orchid Ballroom Level 4 of the Sands Expo and Convention Centre.

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**0900 – 1900 hours, Tuesday, 23 August**
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Lost & Found
Lost and found items will be placed at Conference Headquarters located at Orchid 4201AB on Level 4 of the Sands Expo and Convention Centre.

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As a courtesy to the speakers and your fellow attendees, please switch your mobile phones to silent mode during meetings and sessions.

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IADC Advanced Rig Technology Conference & Exhibition Exploring Advanced Technical Solutions for Onshore & Offshore Drilling
13 - 14 Sep | Moody Gardens Hotel, Galveston

IADC Drilling HSE&T Europe 2016 Conference & Exhibition
21 - 22 Sep | NH Grand Hotel Krasnapolsky, Amsterdam

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