Reshaping for a Smart and Sustainable Future

Conference Preview

27 - 29 AUG 2018
Bangkok, Thailand
Rotating biennially within Asia Pacific, the IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition is the premier event for drilling and well technology professionals.

The event provides the opportunity for operators, suppliers, contractors, and service company professionals to meet, discuss, evaluate, and share ideas to advance drilling operations, promote solutions to common problems, and improve overall efficiency and portability.

What's Planned for 2018
• 2+ Hours of high-level industry addresses / executive plenary sessions
• 5+ Hours of interactive panel and special sessions
• 10+ Hours of targeted networking functions with coffee breaks, ice cream socials, luncheons and industry receptions all taking place at the exhibition
• 20+ Hours of focused technical sessions

Who Attends?
• Well Engineering Managers/Directors
• Petroleum Engineers
• Drilling Service Managers/Directors
• Exploration Engineers/Managers
• Procurement Managers
• Drilling Exploration Engineers
• Geologist and Petrophysicists
• Rig Operators
• Contracts Managers
• Drilling Team Leaders and Management
• HSE Officers/Managers
• Drilling and Completion Engineers/Managers
• Senior Management & Executives

About the Society of Petroleum Engineers
The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 158,000 members in 143 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources at www.spe.org.

About the International Association of Drilling Contractors
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.

This Conference Preview is updated as at 1 February 2018. Additional changes made after 1 February 2018 will be reflected in the website and on-site programme.
On behalf of the Society of Petroleum Engineers (SPE), the International Association of Drilling Contractors (IADC), and the Programme Committee, we are pleased to invite you to the IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition, which will be held from 27-29 August 2018 in Bangkok, Thailand.

We are pleased to welcome the region’s leading drilling event back to Thailand where PTT Exploration and Production Public Company Limited (PTTEP) is honoured to be the Host Organisation.

Since the last edition of the event was held in Thailand in 2014, the industry has altered significantly. Evolving challenges such as oil price volatility, the “big crew change”, and digital disruption, require new approaches in applying business models and technologies to achieve cost and operational efficiencies smartly and sustainably, whilst attaining stakeholder expectations to preserve the core business and, at the same time, stimulate progress.

Under the theme “Reshaping for a Smart and Sustainable Future”, this conference will explore the challenges, successes, and strategies to create a fit-for-purpose set of tools, systems, models, technologies, and capabilities that will reshape the industry for a smart and sustainable future.

To address the theme, the conference Technical Programme Committee has built a diverse and comprehensive technical programme, featuring presentations of more than 100 papers in technical and knowledge sharing ePoster sessions. Industry leaders will also provide their insight on major issues facing the drilling sector of the oil and gas industry in the Opening, Executive Plenary and Panel Sessions.

Together with the conference, a technical exhibition will showcase the latest industry advancement, as well as provide a vibrant platform for knowledge transfer and networking to deliver an efficient platform for industry professionals to share experiences, make new connections, and conduct business.

We anticipate a highly engaging IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition and look forward to welcoming you to Bangkok for this professionally rewarding and enjoyable event.
Programme Committee

Conference Chair
Somporn Vongvuthipornchai
PTTEP

Conference Vice Chair
Phongsthorn Thavisin
PTTEP

Technical Programme Committee Advisor
Chayong Borisuitsawat
PTTEP

Technical Programme Chair
Pasuk Eagark
PTTEP

Technical Programme Vice Chair
Eric Wagner
Chevron Thailand Exploration and Production, Ltd.

Members

Henry Pinkstone
AFGlobal

Feng Gui
Baker Hughes, a GE company

Darryl Eisler
Baker Hughes, a GE company

Nick Wasuthalainunt
Baker Hughes, a GE company

Martin Culen
Blade Energy Group

Thomas Fredric Young
Dalma Energy

Manaw Kumar Agrawal
Dynamic Drilling Holdco Pte. Ltd.

Rolv Rommetveit
eDrilling

Alex Maroske
Energy Drilling

Matt Regan
GEOLOG International

Habil Akram Rosland
Halliburton

Muhammad Faris Arriffin
Halliburton

Robello Samuel
Halliburton

Chit Hiaing
IADC

Joachim van der Meulen
IADC

Arun Rajagopalan
Independent

Fikri Irawan
Independent

Ad Tange
Lloyd’s Register

Sadi Ozturk
Maersk Drilling

Nishanth Samuel
Marathon Oil

Ian McManus
Mubadala Petroleum Thailand Ltd.

Kirk T. Atkinson
Noble Corp.

Guillaume Plessis
NOV – Wellbore Technologies

Shankar Bhukya
NOV – Grant Prideco

Tom Norddell
Oilfield Supply and Service

Adrin Nasir
Petrofac Malaysia

Steve McBride
Parami Energy

Gary Ong Swee Hong
PETRONAS Carigali Sdn. Bhd.

Suresh Kumar
Progrowth Energy Pvt. Ltd.

Chansin Kaewwetchawong
PTTEP

Pramote Phloi-montri
PTTEP

Sunchai Pongorapin
PTTEP

Suwin Sompopsart
PTTEP

Wiwat Pattarakuchung
PTTEP

Chatchai Kongdachudomkul
PTTEP

Kamolchai Pattanaapong
PTTEP

Nitipong Kongpat
PTTEP

Sarit Rattananachan
PTTEP

Leongsakol Chinarat
PTTEP

Bot Viet Nguyen
PVD Well Services Co.

Ben Gedge
RMES & PV Drilling & Well Services

Helio Santos
Safekick

Louay Louis Laham
Sapura Energy

Sailim Taoutaou
Schlumberger

Tomaso Ceccarelli
Schlumberger

Robert Kerr
Scientific Drilling International

Rishi Srivastava
Shelf Drilling

Jan Brakel
Shell

Wade A. Rebardi
Superior Energy Services

Keith Rae
TAM International Asia Pacific Pty. Ltd.

Basker Murugappan
TAQA

Koji Sakura
TenarisNKKTubes

Izwan Megat
UMW Oil & Gas

Robert Ziegler
Weatherford
Conference Sponsors

Host Organisation

PTTEP

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TURNING TARGETS INTO PERFORMANCE

As part of our global petroleum exploration and production, PTTEP strives for a balance that creates long-term value for business, environment and society. In order to become a leading Asian E&P company driven by competitive performance, advanced technology and green practices. We are committed to conducting business under proper ethical practices, and good governance in tandem with outstanding environment and social performance which underpin our license to grow in a sustainable way.
## Schedule of Events

### Sunday, 26 August

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>0800 – 1700 hours</td>
<td>Exhibition Move-In</td>
<td>Exhibition Hall A1, Level 22</td>
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<tr>
<td>1200 – 1700 hours</td>
<td>Registration</td>
<td>Pre-Function Area, Level 22</td>
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<tr>
<td>1200 – 1700 hours</td>
<td>Conference Headquarters / Speaker and Author Check-In</td>
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<tr>
<td>0900 – 1000 hours</td>
<td>Opening Session</td>
<td>World Ballroom, Level 23</td>
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<td>1000 – 1930 hours</td>
<td>Exhibition</td>
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<td>1000 – 1100 hours</td>
<td>Coffee Break</td>
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<td>Executive Plenary Session</td>
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<td>Networking Luncheon</td>
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<tr>
<td>1400 – 1530 hours</td>
<td>Technical Session 1: Well Design</td>
<td>Lotus Suite 5, Level 22</td>
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<td>Technical Session 2: Drilling and Related Production Enhancement</td>
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<td>1400 – 1530 hours</td>
<td>Technical Session 3: Performance and Profitability</td>
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<td>Technical Session 5: Well Evaluation</td>
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<td>Technical Session 6: Optimisation-MPD</td>
<td>Lotus Suite 7, Level 22</td>
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<tr>
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<td>Welcome Reception hosted by PTTEP</td>
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<tr>
<td>1100 – 1230 hours</td>
<td>Panel Session 1: What’s Next in the Future for Drilling Rigs</td>
<td>Lotus Suite 7, Level 22</td>
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<td>Technical Session 10: Bit / BHA / Geomechanics</td>
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<td>Technical Session 11: Case Studies - Production Enhancement</td>
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<tr>
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<td>Panel Session 2: “Enhancing Business Partnerships”</td>
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<td>0900 – 1030 hours</td>
<td>Technical Session 13: Case Studies - Directional Drilling</td>
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<td>0900 – 1030 hours</td>
<td>Technical Session 14: Well Completion and Stimulation</td>
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<td>0900 – 1030 hours</td>
<td>Technical Session 15: Offshore, Deepwater and Subsea</td>
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<td>Panel Session 3: Drilling Technologies to Increase Efficiency and Improve Recovery</td>
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<tr>
<td>0900 – 1700 hours</td>
<td>Training Course A: Data Analytics for Drilling Optimisation</td>
<td>M1 Meeting Room, Level 23</td>
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<tr>
<td>0900 – 1700 hours</td>
<td>Training Course B: Horizontal Drilling – Design and Application</td>
<td>M2 Meeting Room, Level 23</td>
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Opening Session

Monday, 27 August • 0900 – 1000 hours • World Ballroom, Level 23

Attendance at this event will include senior management from major petroleum related companies, representatives from government ministries and departments, and industry technical professionals.

Speakers:
• Dr. Kurujit Nakornthap, Co-chairman (Thailand) of the Malaysia-Thailand Joint Authority (MTJA)
• Somporn Vongvuthipornchai, Chief Executive Officer, PTTEP
• Darcy Spady, 2018 President, Society of Petroleum Engineers (SPE) and Managing Director, Broadview Energy Asset Management
• Mike DuBose, Vice President – International Development, International Association of Drilling Contractors (IADC)

Executive Plenary Session

Monday, 27 August • 1100 – 1230 hours • World Ballroom, Level 23

Speakers:
• Brad Middleton, Managing Director, Chevron Asia South Ltd.
• Marcus Chew, CEO, Energy Drilling
• Chayong Borisuitsawat, Acting Executive Vice President, Operations Support Group, PTTEP
• Raphael Siri, Senior Vice President, Sapura Energy
• Etienne Roux, President, Drilling and Evaluation, Weatherford

Since the last event held in Thailand in 2014, the industry has altered significantly. Evolving challenges such as oil price volatility, the “big crew change” and digital disruption, organisations require new approaches in applying business models and technologies to achieve cost and operational efficiencies, whilst meeting stakeholders’ expectations to preserve the core business and, at the same time, stimulate progress by exploring challenges, successes, and strategies to create a fit-for-purpose set of tools, systems, models, technologies and capabilities that will reshape the industry for a smart and sustainable future.
Panel Session 1: “What's Next in the Future for Drilling Rigs?”

Tuesday, 28 August • 1100 – 1230 hours • Lotus Suite 7, Level 22

Session Chairs:
• Eric Wagner, Drilling Manager, Chevron Thailand Exploration and Production, Ltd.
• Kirk Atkinson, Marketing & Contracts Manager, Far East & Oceania, Noble Corp.

Speakers:
• Teo Yun Yun, Principal Analyst (Rigs, Asia Pacific), IHS Markit
• David Reid, Chief Marketing Officer, NOV
• Waldemar Szemat, Drilling Business Development Manager - Eastern Hemisphere, Schlumberger
• William Gu, Senior Vice President and Head, SembCorp Marine Rigs & Floaters
• Johan Surewaard, Vice President Wells Integrated Gas, Shell

As the petroleum industry recovers from market lows and business recovers, we ask ourselves, what is next? This panel session shall discuss these and other appropriate topics including:

- Rig utilisation forecasts
- Regions for future growth
- Rig types for expansion: Land, shelf, deep or ultra-deep water
- Rig retirements, cold vs warm stacking and reactivation
- Shipyard activity: Upgrades vs new build construction
- New technologies in Rig Components or Service Delivery
- Data management and work processes
- Partnerships between drilling contractors and drilling service providers

The industry’s need to position for recovery and forecasting is an integral component in the planning for next phase. Identifying both type of rig and regions for growth will advance the planning for the next stage of activity.

Drilling rigs will continue to be retired, however, many others will return from stacking to active operation. There is opportunity to support the industry’s recovery by introducing and applying new technology, data management, work processes and operating philosophies. This includes adding new rig components through new builds and rig upgrades as well as rig and service provider alliances to offer streamlined solutions. We need to be positioned for the evolution of our drilling industry.
Panel Session 2: “Enhancing Business Partnerships”

Tuesday, 28 August • 1600 – 1730 hours • Lotus Suite 7, Level 22

Session Chairs:
- Pasuk Eagark, Senior Vice President, Well Engineering & Operations, PTTEP
- Suresh Kumar, CEO- Oil & Gas, Progrowth Energy

Speakers:
- Supat Napanoparatkaew, Director of Facilities Engineering Group, Department of Mineral Fuels
- Ahmed El Sherbini Ibrahim, Vice President, Digital Sales Direct, Baker Hughes, a GE company
- Azhar Abdullah, Managing Director, Malaysia, Schlumberger
- Kurt Hoffman, Chief Operating Officer, Shelf Drilling

Long term, high risk E&P investment demands a fair return. Our industry has to achieve a reasonable margin in producing hydrocarbons despite the current oil price to sustain growth. To succeed in this effort, the industry must recognise and exploit the crucial role digital transformation plays.

Evolving digital transformation is widening boundaries in reshaping E&P methodologies to prepare for the big crew change and future resource optimisation. We should guide digital transformation by promoting its application to achieve continuous efficiencies in mature fields as this is where big data is. Big data presents outstanding opportunities for digitalisation, such as automating entire work processes of repetitive activities and optimise resources, where there is less experienced personnel.

Big data needs to be a long-term focus in optimising mature fields production and operations. It is crucial to remain open to innovation and form smart collaborations to stimulate progress for more step-change for full value chain optimisation. In addition, automation capability is essential as it enable us to plan ahead or perform heavy-front-end, loading work that not only ensures we are efficiently improving existing asset values, but also provide sufficient lead time to effectively manage external factors, such as regulatory changes and fiscal regime, engaging other stakeholders as well as efficiently structure contract strategies.

The oil and gas industry has already started to implement digital technologies and solutions across E&P workflows. Steps include more effective data analytics, utilising artificial intelligence and predictive software in all phases of field management, and maximising asset values of a field.

Fiscal policies need to be restructured to fit current reality. Regulators and operators should focus on standardising well design and modular facility for field development based on offset data while restricting detailed engineering to frontier areas with limited analogues. More responsibility with limited experience mandates the industry to have adequate digital guidance, stringent personnel training and certification to ensure efficiency, quality and HSE preservation.

Traditional E&P contracting of specialist service companies, supervised by discipline experts and layers of project managers has to undergo a paradigm shift towards greater delegation of risk and responsibility within agreed contract boundaries. A lead contractor of a consortium can deliver bundled services or small E&P projects to pre-set goals, costs or incentives. An integrated service provider should be encouraged to operate service intensive projects, such as, marginal and late life fields on pre-set return basis.
In the current and foreseeable future of low oil prices, improvements in drilling technologies to increase efficiency and/or improve ultimately recovery, are essential for the sustainability and viability of the industry.

Technological innovation and innovative management techniques are very important to overcome the current challenges for new project feasibility. Without some new techniques in drilling and completions to reduce development costs and improve ultimate recovery, many projects will not pass their economic feasibility hurdle. R&D has been severely reduced by operators and service companies through this downturn, so a new paradigm of working together or looking for ideas and concepts that is outside our current technology envelope, may be needed. Lowering the cost base of new developments, and or, significantly improving the recovery, are necessary if not vital, to develop many now marginal and even more sizable fields.

How can collaboration in the oil and gas industry between NOC, IOC, Drilling Contractors and Service Companies be fostered, so as to enable new technologies, practices and key lessons learned in previous periods of low oil prices, to come to the market, be tested and implemented successfully.

This panel assembles experts with extensive experience and a range of diverse expertise to discuss issues, new technologies, ideas and practices for reducing costs in drilling and completion, as well as any techniques, that might significantly enhance recovery. This will enable new and now many more fields, that have joined the ranks of marginal status, become viable developments, in spite of the fall in oil prices.
## Conference Programme Schedule

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<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Lotus Suite 5</th>
<th>Lotus Suite 6</th>
<th>Lotus Suite 7</th>
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<tr>
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<td><strong>Opening Session</strong> - World Ballroom, Level 23</td>
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<td><strong>Executive Plenary</strong> - World Ballroom, Level 23</td>
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<td><strong>Knowledge Sharing ePoster Session</strong> - Exhibition Hall A1, Level 22</td>
</tr>
<tr>
<td></td>
<td>1100-1230 hours</td>
<td><strong>Panel Session 3:</strong> Drilling Technologies to Increase Efficiency and Improve Recovery - Lotus Suite 7, Level 22</td>
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<tr>
<td></td>
<td>1230-1400 hours</td>
<td><strong>Networking Luncheon</strong> - Exhibition Hall A1, Level 22</td>
<td></td>
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</tr>
</tbody>
</table>
Monday, 27 August • 1400-1530 hours  
TECHNICAL SESSION 1: WELL DESIGN  
Lotus Suite 5, Level 22  

Session Chairs:  
Darryl Eisler, Baker Hughes, a GE company  
Habil Akram Rosland, Halliburton

Papers IADC/SPE

**191071** Drilling One of the Most Complex ERD, Extreme HPHT Wells in the World  
H. Alemi, Schlumberger Oilfield UK Plc.

**191064** Efficiency Improvement and Effective Sand Control Completion Unit by Drilling Rig in Zawtika M9 Development Field  
V. Benjaboonyazit and P. Chatporntanadul, PTTEP International Ltd. (Yangon); K. Intrachai, C. Kongdachudomkul, and T. Kreetaphon, PTTEP; M. Follet and G. Marvin Rutland, PTTEP International Ltd. (Yangon)

**191089** Successful Well Placement in Multilayer Sandstone Achieving Maximum Reservoir Exposure  
M. Aip, PETRONAS Carigali Muriah Ltd.; C. Nugroho, Baker Hughes, a GE company; Z. Ernando, E. Suryana, W. Ferdiana, and T. Tg. Othman, PETRONAS Carigali Muriah Ltd.; G. Sucayho, Baker Hughes, a GE company

**190979** Using Simultaneous Gyro Measurements to Determine Orientation of Magnetic Ranging Instruments in a Vertical Environment  
G. Rassadkin, C.J. Moss, and D. Ridgway, Scientific Drilling International

Monday, 27 August • 1400-1530 hours  
TECHNICAL SESSION 2: DRILLING AND RELATED PRODUCTION ENHANCEMENT  
Lotus Suite 6, Level 22  

Session Chairs:  
Fikri Irawan, Independent  
Suresh Kumar, Progrowth Energy  
Ben Gedge, RMES & PV Drilling & Well Services

Papers IADC/SPE

**191087** Innovative Solution for High Temperature High Gas Rate Carbonate Well  
N. Abdul Rashid, O. Fabian, and M. Johari, PETRONAS

**191006** Application of Velocity String to Improve Productivity from Bottom Pays after Hydraulic Fracturing in Multilayered Low Permeability Reservoir  
S. Anand, S. Tiwari, A. Bohra, and N. Johri, Cairn Oil & Gas

**191066** Significant Operation Efficiency Improvement of Cased Hole Gravel Pack Completion by Implementing Factory Completion Strategy  
A. Choodeh, PTTEP

**190975** A Sustainable Approach to Production Increase in the Zawtika Field: Sand Control Assisted with Hydrofluoric Acidising  
C.R. Ramirez, Halliburton; A. Choodeh and C. Graham Grant, PTTEP; D. Cahyanto Santos and A. Nusyirwan, Halliburton

Monday, 27 August • 1400-1530 hours  
TECHNICAL SESSION 3: PERFORMANCE AND PROFITABILITY  
Lotus Suite 7, Level 22  

Session Chairs:  
Fredric Young, Dalma Energy  
Jan Brakel, Shell

Papers IADC/SPE

**191039** Applied Value Stream Mapping as Enabler to True Collaboration and Advanced Commercial Constructs  
D.M. Luna and V. Rikhi, Shell Global Solutions International

**191038** Enhancing Technology Development Process through Purpose Built Testing and Training Facilities  

**191020** Drilling Contractors Incentive Programme  
M.M. Amer, H.H. Alsinan, N.A. Alotaibi, A.O. Radhwi, and M.A. Rabiah, Saudi Aramco

**191035** Drilling Contractor’s Strategy under Gross-Split Production Sharing Contract  
W.A. Nugroho, Pertamina
# Technical Sessions

**Monday, 27 August • 1600-1730 hours**

**TECHNICAL SESSION 4: TUBULARS**
Lotus Suite 5, Level 22

**Session Chairs:**
[**Habil Akram Rosland**, Halliburton]
[**Shankar Bhukya**, NOV Grant Prideco]

**Papers IADC/SPE**

191032  **The Triaxial Limit and Safety Factor of an Anisotropic Crude Tubular**

190968  **Focus on Reducing Cost of Ownership Drives the Development of the 4th Generation Drill Pipe Connection Design**
G. Plessis, A. Muradov, and D. Morgan, NOV Grant Prideco; J.N. Brock, James N Brock Consultant LLC; A. Primeaux, Workstrings International

191061  **Casing Drilling Technology as the Solution for Severe Lost Circulation: LSE Casing Drilling Pilot Project Case Study**
B. Noviasta, H.M. Falhum, and K. Astasari, Schlumberger; S.F. Abdila, SKK Migas; A. Muslim, A.M. Harahap, H. Yuristyanto, and J. Sondang, Pertamina EP

190987  **Expandable Liner Application to Overcome Wellbore Stability Challenges in a Mature Field**
E.A. Fitnawan, ConocoPhillips Norge

**Monday, 27 August • 1600-1730 hours**

**TECHNICAL SESSION 5: WELL EVALUATION**
Lotus Suite 6, Level 22

**Session Chairs:**
[**Chansin Kaewwetchawong**, PTTEP]
[**Bob Kerr**, Scientific Drilling]
[**Robert Ziegler**, Weatherford]

**Papers IADC/SPE**

190978  **Successful Utilisation of New Slim Formation Testing and Sampling Tools Across Complex Reservoirs in Thailand**
D. Chantipna and I. Espinoza, Weatherford

191011  **Defining Downhole Contribution/Injection Profile in Multi-Zone Completion by Temperature and Spectral Noise Logging**
W. Toempromaraj, C. Pahonpate, and T. Sangvaree, PTTEP; R. Karantharath, TGT Oilfield Services; I. Aslanyan, TGT Oil & Gas Services

191095  **Cost and Operation Optimisation for Downhole Tractor Conveyance for Perforating in ERD Wells by Using Wireline Multistage Pressure Deployment System**

191093  **Productivity Forecasting by Using LWD Pressure Testing and NMR Data, Case Study from South China Sea**
M. Li and M. Zhang, CNOOC; G. Lei and N.P. Hardiker, Baker Hughes, a GE company

**Monday, 27 August • 1600-1730 hours**

**TECHNICAL SESSION 6: OPTIMISATION-MPD**
Lotus Suite 7, Level 22

**Session Chairs:**
[**Martin Culen**, Blade Energy]
[**Bot Nguyen Viet**, PVD Well Services]
[**Ben Gedge**, RMES & PV Drilling & Well Services]

**Papers IADC/SPE**

190997  **Near Real-Time Monitoring of PDC Bit Condition and Associated NPT Mitigation Using Online Alkene Detection**
E. Carcione, A. Martocchia, and M. Regan, Geolog International

191073  **A Success Story of Deepest Geothermal Well in Asia**
W.A. Nugroho and R. Mirza, Pertamina

191074  **Using Drill Pipe Connection Continuous Circulation Technology on a Geothermal Drilling Project in Indonesia to Reduce Stuck Pipe Events**
H. Pinkstone, S.W. Petrie, and J.W. Bisset, AFGlobal Corp.; S. Scaglarini, Schlumberger; Y. Indrinanto, Star Energy

190991  **A Precise MPD Technology to Reduce Risk in Drilling of Fractured Cavernous Carbonate with Narrow Pressure Margins**
Technical Sessions

Tuesday, 28 August • 0900-1030 hours
TECHNICAL SESSION 7: HIGH-TEMPERATURE AND DOWNHOLE TOOLS
Lotus Suite 5, Level 22

Session Chairs:
Steve McBride, Parami Energy
Kamolchai Pattanapong, PTTEP

Papers IADC/SPE

191054 Thailand Joint Development Project Delivers 200°C M/LWD Triple Combo: Eliminating Wireline, Driving World Class Efficiency and Slashing Days Per Well
S.A. Mcbride, Weatherford; P. Thipmongkolsilp, C.A. Silva, and N. Pisarnbut, Chevron Thailand Exploration & Production, Ltd.; D.W. Ellis, Independent Consultant; L. Lim, R. Barton, and J. Pruimboom, Weatherford

U.B. Sathuvalli, I. Ben-Fayed, and P. Suryanarayana, Blade Energy Partners

191105 Effect of Synthesised Polyacrylamide/2-2 Diallyldimethyl Ammonium Chloride Grafted Fe2O3 Nano Composite on WBM for Drilling High Temperature Shale Wells
N. Kumar, PETRONAS Carigali Sdn. Bhd.

191080 Development of Modified Rhizophora spp. Tannin Biopolymer Additive in Drilling Fluid System for High Temperature Well Applications
N.A. Ghazali, S. Naganawa, and Y. Masuda, U. of Tokyo

Tuesday, 28 August • 0900-1030 hours
TECHNICAL SESSION 8: FIELD DEVELOPMENT
Lotus Suite 6, Level 22

Session Chair:
Fredric Young, Dalma Energy

Papers IADC/SPE

191088 Aligning Field Development Options to Harsh Economic Conditions in an Offshore Brownfield in Malaysia

191091 Driving Efficiencies in Well Intervention Operations

191078 Assessing the Impacts of Groundwater Intrusion to Production Efficiency and Determine Solutions to Enhance Oil Recovery, Fractured Basement Reservoir, Su Tu Den Field
X. Van, K.X. Nguyen, and N.B. Thai, Ho Chi Minh City U. of Technology; T.V. Nguyen, Cuu Long JOC; N. Tuan and T.Q. Truong, Ho Chi Minh City U. of Technology

Tuesday, 28 August • 0900-1030 hours
TECHNICAL SESSION 9: FLUIDS AND CEMENTING
Lotus Suite 7, Level 22

Session Chair:
Keith Rae, TAM International Asia Pacific Pty. Ltd.

Papers IADC/SPE

191049 Micro-Fluids: Innovative and Cost Effective Non-Aqueous Fluids for Drilling Complex Wells
M. Al-bagoury, Elkem; M.T. Rincon-Torres, Halliburton; C.D. Steele and P.J. Revil, Elkem

191052 Geomechanical Evaluations Coupled with Optimised Drilling Practices and Fluid Design Helped in Successful Drilling through Coal in Offshore Peninsular Malaysia and Vietnam

191075 Filter Cake Buildup in Horizontal Wells: Characterisation and Impact on Removal Operation
B.S. Hamzaoui and A.M. Al Moajil, Saudi Aramco
Technical Sessions

190970 Zonal Isolation in Horizontal Configurations: Dynamic Cement Placement Approach Applied in Argentina, a Case Study
S. Ficetti, Schlumberger; N. Torgau and N. Carestia, Wintershall; S.P. Baggini Almagro, Schlumberger Argentina S.A.; P. Silva and D. Paz, Schlumberger

Tuesday, 28 August • 1400-1530 hours
TECHNICAL SESSION 10: BIT/BHA/GEOMECHANICS
Lotus Suite 5, Level 22

Session Chairs:
Nick Wasuthalainunt, Baker Hughes, a GE company
Leongsakol Chinarat, PTTEP

Papers IADC/SPE

191100 Conical Diamond Element PDC Bit as a Breakthrough to Drill Hard Geothermal Formation in Indonesia
F. Gunawan, Pertamina Geothermal Energy; M.Y. Mardiana, B. Noviasta, and H.B. Febriarto, Schlumberger

191045 A Successful High-Ratio Hole Opening Utilising a Dual Underreamer Saved Drilling Time in a Shale Gas Exploration Well
B. Noviasta, K. Pratama, and I. Agustina, Schlumberger

191046 Study of Frictional Forces in Horizontal and Extended-Reach Wells: Experimental and Modelling
E. Wiktorski, M. Khatibi, D. Sui, and R. Time, U. of Stavanger

191096 Step Change in BHA Reliability and Performance Due to Utilisation of Downhole Drilling Dynamics Services
H. Reckmann, O. Akimov, A. Hohl, and H. Oueslati, Baker Hughes, a GE company

Tuesday, 28 August • 1400-1530 hours
TECHNICAL SESSION 11: CASE STUDIES - PRODUCTION ENHANCEMENT
Lotus Suite 6, Level 22

Session Chairs:
Feng Gui, Baker Hughes, a GE company
Wiwat Pattarachupong, PTTEP
Basker Murugappan, TAQA

Papers IADC/SPE

191063 Integrated Under-Pressure Operation Workflow to Improve Unconventional Well Performance in Sichuan Basin
S. Li and Y. Fu, PetroChina Southwest Oil and Gas Field Co.; X. Yi, Chengdu U. of Technology; Z. Tang, PetroChina Southwest Oil and Gas Field Co.

190974 Non-Portland Cement Slurry Development and Application for Ultrahigh-Temperature Geothermal Well with Supercritical Conditions
G. Di Martino and A. Ruch, Halliburton

191008 First Multi Stage Fracturing Operation Completed in Unconventional Reservoir Offshore Arabian Peninsula Resulting in World First 20 Stages Completed
S.D. Souloumoudjingar, Schlumberger Overseas S.A.

190992 Acidising Non-Flowing Offshore High Permeable Sandstone Oil Reservoirs Lab Study and Field Applications
A.M. Al Moajil, Saudi Aramco

Tuesday, 28 August • 1400-1530 hours
TECHNICAL SESSION 12: NEW TECHNOLOGIES - DRILLING COMPLETIONS AND PRODUCTION
Lotus Suite 7, Level 22

Session Chairs:
Henry Pinkstone, AFGlobal
Suwin Somponsart, PTTEP
Jan Brakel, Shell

Papers IADC/SPE

191031 Intelligent Completions Pilot Implementation of Injector Multi-Zones: Injectivity Optimisation and Efficiency for EOR Integrated Operation

191027 Fracture Optimisation Orientated Geosteering within a “Fracable Window” can Improve Production Performance
Y. Yao and N. Zhang, Baker Hughes, a GE company; Q. Li, PetroChina

191015 Rig Time Optimisation and Risk Mitigation with Slim Formation Testing and Sampling Tool in Combination with through Drillpipe Wireline Logging Technique
V. Pinprayong, Weatherford

191102 The First Coiled Tubing Fiber-Optic Digital Implementation in Asia Pacific to Support Real-Time Perforation Depth Correlations and Enhance Wellbore Cleanout Efficiency in Horizontal Well, Thailand
R. Wattanasuwankorn, T. Daohmareeyor, and A. Kangsadarn, Halliburton
Technical Sessions

Wednesday, 29 August • 0900-1030 hours
TECHNICAL SESSION 13: CASE STUDIES - DIRECTIONAL DRILLING
Lotus Suite 5, Level 22

Session Chairs:
Muhammad Faris Arriffin, Halliburton
Sarit Rattanachan, PTTEP

Papers IADC/SPE

191004 Resolving Directional Drilling Challenges to Deliver Small Bore Open-Hole Stand Alone Screen Completion in an ERD Well of the Piltun-Astokhskoye Field, Sakhalin
R.V. Kasumov, Schlumberger

191003 Research on Safe Drilling Technology for Ultra Deep Ultrahigh Pressure Saltwater Zones in Piedmont Area, Kuche
H. Ja, P. Wang, L. Li, X. Li, and H. Feng, PetroChina Tarim Oilfield Co.

191048 Eliminating Operational Risk Using Sampling while Drilling in High Risk Borehole Environment of Marginal Fields
N.P. Hardikar and J. Pragt, Baker Hughes, a GE company; H.M. Nguyen, PVD-Baker Hughes, a GE company

191065 Integrated Reservoir Modelling while Drilling Enhances Horizontal Well Placement and Productivity in a Complex Offshore Field, Bohai Bay
M. Mao, China France Bohai Geoservices Co., Ltd.; X. Li, TimeGeosmart

Wednesday, 29 August • 0900-1030 hours
TECHNICAL SESSION 14: WELL COMPLETION AND STIMULATION
Lotus Suite 6, Level 22

Session Chairs:
Feng Gui, Baker Hughes, a GE company
Keith Rae, TAM International Asia Pacific Pty. Ltd.

Papers IADC/SPE

191007 Effective Secondary Recovery Stimulation Using Solid Propellant Technology for Tight Sand Development in Sirikit Oil Field, Thailand
W. Toempromaraj, S. Sompopsart, A. Nadoon, T. Kiatrable, and D. Weeramethachai, PTTEP; P. Havalda, TC Energy

191001 Fracture Packing in Previously Gravel Packed Well Using Single-Trip Multizone System
J. Qian, Halliburton; Q. Wang and L.X. Wang, formerly Halliburton; J. Deng, Y. Ma, and M. Zhang, CNOOC, Tianjin Branch; C. Fang, Halliburton

191067 Ground Breaking Technology in Artificial Lift; 1st Installation of Full Digital Intelligent Artificial Lift (DIAL) System at DL Field, Brownfield Offshore Malaysia

Wednesday, 29 August • 0900-1030 hours
TECHNICAL SESSION 15: OFFSHORE, DEEPWATER AND SUBSEA
Lotus Suite 7, Level 22

Session Chair:
Guillaume Plessis, NOV Wellbore Technologies

Papers IADC/SPE

191085 Detection of Shallow Gas Flow in Riserless Drilling: Lessons from Deepwater Myanmar
F. Crea, E. Chen, and K. Ho, Woodside Energy Ltd.

190990 Worst Case Discharge and Dynamic Well Killing Study for Supporting Blow-Out Contingency Plan: Pre-Drilled and Post-Production Well Case in Offshore Well
A.S. Ashfahani, D.H. Kusuma, and D.A. Dewanta, Total E&P Indonesia

191018 Dynamic Positioning of Semi-Sub Offshore Rig Using Fuzzy Control
R.T. Felicissimo, Universidade Federal do Espírito Santo

190976 Designing MOPUs around Modular Principles to Achieve Lower Cost Field Development and Increased Portability
I. Steven, CDC Scotland Ltd.
## Knowledge Sharing ePoster Sessions

An ePoster, presented on a digital screen 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.

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>190969</td>
<td>Well Control for Offshore High-Pressure/High-Temperature Horizontal Gas Wells Drilling: How to Determine the Kick Tolerance and Select a Proper Well Killing Method?</td>
<td>X. Chen, China U. of Petroleum, Beijing (Alternate Paper in Technical Session 15)</td>
</tr>
<tr>
<td>190971</td>
<td>Effective Approach to Wellbore Clean Out Operation: A Case Study from Zawtika Phase 1B</td>
<td>A. Choodesh, PTTEP</td>
</tr>
<tr>
<td>190973</td>
<td>Successful UBD Application through the Full Operation Cycle of the Production Section on an Exploration Gas Well in Thailand: A Case History</td>
<td>P. Wang, Weatherford (Alternate Paper in Technical Session 2)</td>
</tr>
<tr>
<td>190977</td>
<td>First Middle East Utilisation Of Superior Primary Solids Control Equipment Reduces Surface Mud Losses and Minimizes Environmental Impact</td>
<td>T.D. Olivares and R.M. Pino, Saudi Aramco; J. Macklin and T. Grelland, Cubility</td>
</tr>
<tr>
<td>190980</td>
<td>Acquisition of Downhole Pressures without Downhole Gauges in the Gulf of Thailand via the Self-Powered Intelligent Data Retriever</td>
<td>R. Wattanasuwankorn, Halliburton; T. Ananwattanasuk and N. Piyakunkiat, PTTEP; M. Redman, Halliburton (Alternate Paper in Technical Session 12)</td>
</tr>
<tr>
<td>190981</td>
<td>Analysis on Selection of Completion Tubular Connection for HPHT Gas Well</td>
<td>J. Wang, CNPC Tubular Goods Research Inst. (Alternate Paper in Technical Session 4)</td>
</tr>
<tr>
<td>190983</td>
<td>Effect of Steering Mechanism on Wellbore Tortuosity in Horizontal Wells</td>
<td>A.A. Alrushed, Baker Hughes, a GE company; B.S. Ghamdi, Saudi Aramco; M.S. Mohammad, Baker Hughes, a GE company (Alternate Paper in Technical Session 10)</td>
</tr>
<tr>
<td>Paper Number</td>
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<tr>
<td>190985</td>
<td>Sweep Method Improvement to Total Field Calibration of MWD Tools</td>
<td>B. van Steenwyk, Scientific Drilling - Applied Technologies; B. Gleason, Scientific Drilling International</td>
</tr>
<tr>
<td>190986</td>
<td>Designing and Qualifying Drill String for Deviated Well Drilled in Barekuri Field and its Effect on M.E.R</td>
<td>P.U. Dubey, Quippo Oil &amp; Gas Infrastructure Ltd.; R. Gupta, ITM U.; A. Pathak, R. Prakash, and I. Husain, Quippo Oil and Gas Infrastructure Ltd.; G. Bejarano, PDVSA; V. Parashar, Quippo Oil and Gas Infrastructure Ltd.</td>
</tr>
<tr>
<td>190988</td>
<td>Successful Impact of 3D Seismic Attributes in Planning and Drilling Directional Wells in Clastic Reservoir of Greater Burgan Field in Kuwait</td>
<td>H.A. Bahman, S.M. Al-Haddad, F.A. Abdulla, and D. Muzaffar, Kuwait Oil Co.</td>
</tr>
<tr>
<td>190989</td>
<td>CwD - Enables for Successful Extended Reach Drilling. First Time with 9 5/8” Casing at High Angle</td>
<td>A.C. Liew and M. Ibrahim, Petrofac; M.A. Zaba and M. Shafiq, Schlumberger</td>
</tr>
<tr>
<td>190995</td>
<td>Coiled Tubing Sand Consolidation Treatment-Design, Operational Challenges and Lesson Learnt</td>
<td>A. Kumar and C.H. Dickson, Schlumberger; P. Kumar, Shell India Markets Pvt. Ltd.</td>
</tr>
<tr>
<td>190996</td>
<td>A New Fatigue Management Workflow for BHA Integrity Risk Reduction</td>
<td>H.G. Suryadi, Schlumberger</td>
</tr>
<tr>
<td>190998</td>
<td>High Challenging Tight Oil Development by Integrating Innovative Reservoir Boundary Detection Technology into High Efficiency Horizontal Drilling Campaign in West China</td>
<td>W. Fei, Schlumberger</td>
</tr>
<tr>
<td>190999</td>
<td>Application of Artificial Intelligent Techniques to Quantify the Wellhead Performance for Gas Condensate Reservoirs</td>
<td>A. Hassan, M.A. Elnaeem, A. Abdulraheem, and S.M. Elkataty, King Fahd U. of Petroleum and Minerals</td>
</tr>
<tr>
<td>191002</td>
<td>3D and Extreme Geosteering on Highly Faulted Reservoir</td>
<td>R.O. Vasquez Bautista and V.C. Sanchez, Schlumberger Trinidad Inc.; S.D. Wulandari and A. Al-Zrafi, Schlumberger Oman</td>
</tr>
</tbody>
</table>
### Knowledge Sharing ePoster Sessions

<table>
<thead>
<tr>
<th>Paper Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>191005</td>
<td>Effects of Erosion on TP140 Casing Strength Due to Sandblasting during Sleeve Hydraulic Fracturing in Keshen Tight Gas Reservoir</td>
<td>X. Chen, X. Yang, H. Liu, L. Cao, and W. Zhang, PetroChina Tarim Oilfield Co.</td>
</tr>
<tr>
<td>191009</td>
<td>Drilling Technology Optimisation of Ultra-Thick Salt Dome and Sub-Salt Reservoir in Kenkyak Oilfield</td>
<td>F. Jin, CNPC Drilling Research Inst.</td>
</tr>
<tr>
<td>191010</td>
<td>Integrated Solution to Optimise Drilling Efficiency and Production in Marginal Tight Oil Field Development: A Case from Songliao Basin, North China</td>
<td>W. Fei, Schlumberger</td>
</tr>
<tr>
<td>191012</td>
<td>Application of Water-Swelling Polymer to Improve Injectivity Conformance Using Emulsified Diesel as Carrier Fluid</td>
<td>M. Varshney and N. Pandey, Cairn India Ltd.; A.P. Singh, Halliburton Technology India Pvt. Ltd.; A. Parasher, Cairn India Ltd.; M.S. Deshpande, Savitribai Phule Pune U.; K. Pande, Halliburton; S. Vermani, Cairn India Ltd.</td>
</tr>
<tr>
<td>191013</td>
<td>Successful Hydraulics Workover with Snubbing Application Performed Underbalanced Fishing of Parted Coiled Tubing in Live High-Pressure Well: Offshore Vietnam</td>
<td>R. Wattanasuwankorn and T. Daohmareeyor, Halliburton</td>
</tr>
<tr>
<td>191016</td>
<td>Performance Improvement from Drilling Control Systems Alarm Management and Analytics</td>
<td>C. Goetz and R. Woolford, Kingston Systems LLC</td>
</tr>
<tr>
<td>191019</td>
<td>Design Optimisation from 3 Strings to 2 Strings for Deep Wells in Sirikit Field</td>
<td>P. Tangkaprasert, N. Kongpat, S. Rattanachan, K. Ung-aram, W. Dejdamrongpreecha, C. Boontawatniririt, and T. Tungperachaikul, PTTEP</td>
</tr>
<tr>
<td>191021</td>
<td>Replacing the Use of Freshwater with Seawater: Problems, Solutions and Applications</td>
<td>T.A. Almubarak, Saudi Aramco; J. Ng, Texas A&amp;M U.</td>
</tr>
<tr>
<td>191023</td>
<td>OCTG Tubular Running Flat Time Reduction Analysis and Opportunity</td>
<td>Z. Razak and S. Ong, M. Hairi, PETRONAS</td>
</tr>
<tr>
<td>191024</td>
<td>Critical Casing Points: Identification of Najmah Top and Sublayers with Wellsite Inorganic Geochemistry in Kuwait Carbonate Reservoir</td>
<td>J.M. Dashti, M. Al-Awadi, and M. Moshref, Kuwait Oil Co.; A. Shoiebi, A. Pozzi, and J. Estarabadi, Geolog International</td>
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<tr>
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<td>Title</td>
<td>Authors</td>
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<tr>
<td>191025</td>
<td>Achieving Performance Excellence through Integrated Efficiency Workflow Services</td>
<td>A. Soong, B. Ismail, M. Ariffin, and H.A. Rosland, Halliburton</td>
</tr>
<tr>
<td>191028</td>
<td>A Successful Story of New Stimulation Technologies Enhanced Gas Production in Mature Gas Well in North East of Thailand</td>
<td>R. Wattanasuwankorn and T. Daohmareeyor, Halliburton</td>
</tr>
<tr>
<td>191030</td>
<td>The Platform to Optimise the Stranded Well Potential</td>
<td>H.B. Bakar, D. Watchawong, and M. Md Zainuri, PETRONAS Carigali Sdn. Bhd.</td>
</tr>
<tr>
<td>191034</td>
<td>Integrated Gravel Pack Technology Advancements to Address Cost Challenges Associated with Open-Hole, Multi-Zone Completions in Sanding Reservoirs</td>
<td>E.N. Fagervik, Weatherford Completion &amp; Production Systems</td>
</tr>
<tr>
<td>191037</td>
<td>Managing Losses with Controlled Mud Level Drilling</td>
<td>G. Smaaskjar and E. Bergseth, Lundin Norway; L. Hollman, Blade Energy Partners; B. Fossli and P. Stenshorne, Enhanced Drilling</td>
</tr>
<tr>
<td>191040</td>
<td>Evaluation of Relative Permeability Modifiers in Sand-Control Applications: Case History, Results, and Improvements</td>
<td>A. Choodesh, G. Grant, and K. Wuthicharn, PTTEP; C.R. Ramirez, A. Nusyirwan, and D.C. Santoso, Halliburton</td>
</tr>
<tr>
<td>191042</td>
<td>Minimising Excess, Mitigating Losses and Improving Cementing Job Quality along Challenging Tophole Sections by a Simplified Novel Spacer-Cement Train: Evaluation of 3 Case Histories Offshore Malaysia</td>
<td>A. Brandl, R. Mahaiyuin, and H. Razali, Baker Hughes, a GE company; H. Hassan, NOEX</td>
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</table>
# Knowledge Sharing ePoster Sessions

<table>
<thead>
<tr>
<th>Paper Number</th>
<th>Title</th>
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<th>Alternate Session</th>
</tr>
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<tr>
<td>191044</td>
<td>Full-Scale Testing of a Well Intervention Method: Immiscible Heavy Fluid Injection to Stop Gas Migration in a Well</td>
<td>E. Demirci, Turkish Petroleum; A.K. Wojtanowicz, Louisiana State U.</td>
<td>Technical Session 2</td>
</tr>
<tr>
<td>191047</td>
<td>An Efficient Gas Lift MPD Technology Based on Double Wall Drill Pipe</td>
<td>B. Kang, China U. of Petroleum, Beijing</td>
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<td>191056</td>
<td>Estimation of Rock Strength Properties Using Artificial Intelligence</td>
<td>E. Alkamil, A.K. Abbas, and R.E. Flori, Missouri U. of Science and Technology</td>
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<td>191058</td>
<td>Achieving Repeatability and Reproducibility in Competency Based Training</td>
<td>H. Lau, National U. of Singapore; M. Pang, Consultant</td>
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<tr>
<td>191059</td>
<td>Unique Back-Up Cutter Layout Method Leads to Step Change in Bit Durability and Performance when Transition Drilling through Hard Limestone Formations at High Inclinations</td>
<td>K. Vrnak, F. Boutot, and S. Anderle, Halliburton</td>
<td>Technical Session 10</td>
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<td>191062</td>
<td>Study to Evaluate the Effect of Using Expansion Materials with Cement Slurry for High-Pressure/High Temperature Wells</td>
<td>A. Shafqat, Schlumberger Saudi Arabia; S. Taoutaou, Schlumberger; R. Abdurrahman and A.A. Maksoud, Schlumberger Saudi Arabia; L. Otaremwa, Schlumberger Well Services</td>
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<td>191069</td>
<td>Application of Artificial Intelligence to Predict Sonic Wave Transit Time in Unconventional Tight Sandstones</td>
<td>A. Muqtadir, King Fahd U. of Petroleum and Minerals</td>
<td>(Alternate Paper in Technical Session 1)</td>
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<td>191079</td>
<td>When to Tolerate Bad Cementing for Hydraulic Fracturing Job</td>
<td>S. Suprihono, PT Medco E&amp;P Indonesia</td>
<td>(Alternate Paper in Technical Session 11)</td>
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<td>191081</td>
<td>High Definition Multi Boundary Mapping Technique Delivers above Expected Production from a Horizontal Well Drilled in a Geologically Challenging Thin Clastic Reservoir</td>
<td>N.M. Rane, B. Al-Shammari, and A.A. Al-Rabah, Kuwait Oil Co.; M. Wenang and M. Juyal, Schlumberger; C. Keot, Schlumberger Asia Services Ltd.</td>
<td>(Alternate Paper in Technical Session 5)</td>
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<td>191082</td>
<td>Advanced FEA Modelling Solution for 6.125in BHA Drillstring Whirl Prevention: Case Study for Horizontal Well in Australia</td>
<td>C. Singam, Schlumberger; S. Loveless, PTTEP; N.N. Mohd Najmi and A. Nagorcka, Schlumberger</td>
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<td>191084</td>
<td>Overcoming the Challenges during Cementing Spacer Design for Deep Deviated HPHT Wells Containing Heavy Oil Based Muds</td>
<td>A. Brandl, A. Doan, and A. Alegria, Baker Hughes, a GE company</td>
<td>(Alternate Paper in Technical Session 7)</td>
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<td>191090</td>
<td>Underreamer below the Mud Motor: A Solution to Deliver Directional Top Hole in a Crowded Subsurface Environment and Save a Trip while in Collision-Free Operations, Sakhalin Offshore</td>
<td>R.V. Kasumov, Schlumberger; A. Romanov, Sakhalin Energy Investment Co. Ltd.</td>
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<td>191092</td>
<td>Application of High Performance Water Based Mud (HPWBM) in Zawtika M9 field, Gulf of Martaban, Myanmar</td>
<td>T. Khumtong, PTTEP International Ltd. (Yangon); S. Eawprasert and C. Kongdachudomkul, PTTEP</td>
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<td>191094</td>
<td>First Successful Underreaming-while-Drilling (UWD) Operation Delivers Step-Change Performance in Deviated Three-Dimensional Wellbore in Kuwait</td>
<td>A.H. Jokhi and A. Carasco, Schlumberger; J. Jacob, Kuwait Oil Co.</td>
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<td>191097</td>
<td>Using a Developed Real-Time Mud Contamination Monitoring Simulator in Ummer-Radhih and Tayarat Hydrogen Sulfide Formations</td>
<td>E. Alkamil, A.K. Abbas, and R.E. Flori, Missouri U. of Science and Technology</td>
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<td>191098</td>
<td>A Coupled CFD-DEM Numerical Study of Loss Control Material Transport in Actual Rock Fracture Flow Space</td>
<td>Y. Feng, G. Li, and Y. Meng, Southwest Petroleum U.</td>
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<td>191099</td>
<td>MPD Ready Rigs, is this the Future?</td>
<td>B.J. Gedge, Regional Marine &amp; Engineering Services; B. Barbee, Ensco Plc; D. Postel, Regional Marine &amp; Engineering Services Pte. Ltd.; N. Bot, N. Ban, and V. Duc, PVD Well Services Co., Ltd.</td>
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<td>191101</td>
<td>Continuous Circulation Technology to Reduce Drilling Days in Offshore Cape Three Points Field in Ghana: Case Study</td>
<td>R.L. Johnson, A. Reynolds, P. Midolo, and D. Zerari, Halliburton</td>
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<td>191103</td>
<td>A Case Study on Open Hole Zonal Isolation in a Depleted Reservoir Using a Hydraulically Expandable Metal Sealing Packer</td>
<td>J.P. Nayak, Welltec A/S; M. Patowary, Reliance Industries Ltd.</td>
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<td>191104</td>
<td>Successful Acquisition and Verification of Complete LWD Triple Combo Data up to 200°C 392°F</td>
<td>S.M. Antonson, Weatherford International</td>
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<td>191106</td>
<td>Integrated Project Management as a Solution to Geothermal Drilling Development, a Review of 8 Years Project in Indonesia</td>
<td>W.A. Nugroho and W. Atmojo, Pertamina; F. Arifin, PT Pertamina Drilling Services Indonesia</td>
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## Knowledge Sharing ePoster Sessions

<table>
<thead>
<tr>
<th>Paper ID</th>
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<th>Session</th>
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<tbody>
<tr>
<td>191108</td>
<td>Optimising Heavy Oilfield Development through Innovative Logging while Drilling and Horizontal Well Steam Stimulation with Multiple Fluids Technologies in Bohai Bay</td>
<td>W. Fei, Schlumberger</td>
<td>5</td>
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<tr>
<td>191109</td>
<td>Low Alloy Steel and CRA Materials Qualification for Water Injector and IWAG Applications in South East Asia</td>
<td>Z. Razak, O. Swee Hong, and A. Abd Ghani, PETRONAS; Y. Ishiguro, JFE Steel</td>
<td>4</td>
</tr>
<tr>
<td>191110</td>
<td>Agile Drilling Performance Improvement through Rigorous Measurement of Rig Activities: A Case Study from Oman</td>
<td>Y. Al-Aufi and A. AlSulti, Medco Energi; A. Arnaout, TDE International Ltd.; G. Thonhauser, Montanuniversitaet Leoben</td>
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<tr>
<td>191111</td>
<td>Experimental Investigation on Pore Structure of Anisotropic Shale under Liquid Nitrogen Freezing and Thawing</td>
<td>L. Jiang, Y. Cheng, Q. Gao, Z. Han, and G. Wang, China U. of Petroleum (East China); H. Wang, CCCC Marine Construction &amp; Development Co., Ltd.</td>
<td>12</td>
</tr>
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<td>191112</td>
<td>Integrated Shale Gas Reservoir Modelling and Its Application in Drilling and Completion Optimisation, Sichuan Basin, China</td>
<td>L. Wang, Schlumberger</td>
<td>14</td>
</tr>
<tr>
<td>191114</td>
<td>Lesson Learned from Hydraulic Fracturing Stimulation Improve Oil Production Rate in the Lower Miocene Reservoir, Offshore Vietnam</td>
<td>T.N. Huu, Sejong U.</td>
<td>11</td>
</tr>
<tr>
<td>191115</td>
<td>Evaluation of Novel Surfactant for Acid Stimulation and EOR Treatments</td>
<td>A.M. Bin Omar and A.M. Moajil, Saudi Aramco</td>
<td></td>
</tr>
<tr>
<td>191116</td>
<td>A New Generation Naturally Modified Additives for Environmentally Friendly Water-Based Drilling Fluids and Field Applications</td>
<td>Q. Zhu, CNPC Bohai Drilling Engineering Co. Ltd.</td>
<td>9</td>
</tr>
<tr>
<td>191117</td>
<td>Advanced Dual Fuel Technologies for Drilling Rigs</td>
<td>T. Slanvetpan, PTTEP; K. WANNATONG, PTT Research and Technology Inst</td>
<td></td>
</tr>
</tbody>
</table>
In today's world, traditional methods of drilling oil wells don't work as much anymore. Yesterday's practices are being superseded by a universal trend towards the extensive use of historical and real-time data to understand, learn and predict all well intervention operations. This course explores the impact of data analytics on well operations. Drawn from the presenter's extensive experience in data analysis, it examines, in easily understandable terms, today's data management processes targeting process improvement. The course introduces issues related to:
- Basic concepts of data management with emphasis in drilling operations
- Methods of using data as a basis for improving and optimising process control
- Achieving a common understanding of the issues involved among information technology personnel and field engineers
- A roadmap for the implementation of a drilling process improvement system
- Business Intelligence as the ultimate goal of data management processes
- Discussions about data acquisition, quality control, storage, retrieval and analyses
- Understanding concepts for operational time and trouble analyses, learning curve, technical limit and benchmarking

Real business cases to illustrate the concepts explored in the course.

Who Should Attend?
This course is suitable for anyone who would like to understand the field of Data Analytics and implement it to improve drilling and related operations in their companies.

Professionals who are responsible in the following functional areas would be relevant:
- Information Technology
- Risk Management
- Drilling and related operations
- Business Unit Heads
- Data and Business Analysts
- Data Mining/Data Managers/Data Science Analysts

Agenda
- Basic Concepts and Data Management Technologies
- Using Drilling Data
- Drilling Data Analytics
- Case Studies and Practical Exercises

Instructor Biography

Dr. Carlos Damski
Founder and CEO of Genesis Petroleum Technologies

The founder and CEO of Genesis Petroleum Technologies, Dr. Carlos Damski, has accumulated nearly 35 years of experience in IT, including the past 18 years during which he has focused on drilling data analysis, dealing with major companies around the world. He has a PhD in Computer Science from Sydney University and has a number of technical papers published in OTC, SPE, IADC, etc. He is the author of the book “Drilling Data Vortex - Where the bits meet the bits”. The book explains in details how to use data to improve drilling activities. Dr. Damski combines an extensive experience in software technology and drilling procedures so he is in right position to model and extract business intelligence from drilling data, allowing companies to improve their drilling processes. Those are essential skills for the forthcoming digital drilling engineer and data analysts. His expertise encompasses major field campaign development, from initial concepts, until the detailed plan and follow up. This closes the loop for continuous process improvement, where we plan, execute, analyse and provide feedback for future wells.
Exhibition and Sponsorship

Sponsorship Opportunities

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<th>Sponsorship Item</th>
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<td>Principal Sponsor</td>
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<td>Coffee/Tea Break – Day 3 (29 August)</td>
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List of Exhibitors

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<tr>
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<td>Baker Hughes, a GE Company</td>
<td>C03</td>
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<td>Cabot Specialty Fluids</td>
<td>C05</td>
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<tr>
<td>Drillmec SPA</td>
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<td>Gaia Earth Science Limited</td>
<td>D08</td>
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<td>GEOLOG</td>
<td>C01</td>
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<td>McCoy Global</td>
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<td>OPS Group of Companies</td>
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Floor Plan

Entrance / Exit

A01

B11 sold

B07 sold

B03 sold

B01 sold

C11 sold

C09 sold

C07 sold

C05 sold

C03 sold

C01 sold

C02 sold

D11 sold

D09 sold

D07 sold

D03 sold

D06 sold

D04 sold

E11

E10

E08

E09

E07

E05

E03

E02

E01

P06

P05

P04

P03

P02

ePoster stations

Networkung Luncheon & Coffee Break

Networking Luncheon & Coffee Break
PACKAGES AND FEES

Register by 24 June 2018 to take advantage of the Super Early Bird offer.

Individual Registration

<table>
<thead>
<tr>
<th>Categories</th>
<th>Super Early Bird By 24 June</th>
<th>Early Bird By 24 July</th>
<th>Registration After 24 July</th>
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<td>SPE / IADC Member</td>
<td>USD800</td>
<td>USD950</td>
<td>USD1,100</td>
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<td>Non-member</td>
<td>USD900</td>
<td>USD1,050</td>
<td>USD1,200</td>
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Group Registration Package
Register for 4 people and pay for the price of 3.

Training Course Registration Package
Discount packages for participants who plan to attend the conference and training courses are available. Please refer to the Registration Form.

TRAVEL AND ACCOMMODATION

Immigration/Visa Information
International delegates travelling to Thailand must be in possession of passports valid for at least six (6) months with proof of onward passage i.e. return or through ticket. Visa requirements depend on country of origin. Please check with your travel agent, the Thailand Embassy or Consulate on regulations relating to immigration/visa before departure. An invitation letter to facilitate the application of visa will be issued to registered attendees if required. Please download the letter of invitation request from www.spe.org/go/18apdt.

Airport Information
The Suvarnabhumi International Airport is approximately 45 minutes by road from the conference hotel. The Don Mueang International Airport is approximately 40 minutes by road from the conference hotel. The various models of transportation available are airport/hotel limousine service, taxi or Airport rail link.

Hotel Information
Hotel accommodation has been reserved at the Centara Grand at CentralWorld for conference registrants. Reservations can be made directly with the respective hotel by returning the completed Hotel Booking Form. Confirmation of booking will be sent directly to you by the respective hotel.
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IADC/ SPE ASIA PACIFIC DRILLING TECHNOLOGY CONFERENCE AND EXHIBITION
27-29 AUGUST 2018 • BANGKOK CONVENTION CENTRE AT CENTRALWORLD
BANGKOK, THAILAND

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Emergency Contact Telephone (Include country/city code)  

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Super Early Bird By 24 June  
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After 24 July  
Full conference period includes executive plenary, panel, technical and knowledge sharing ePoster sessions, exhibition, welcome reception, daily networking luncheons, daily coffee breaks, and one (1) Digital Proceedings.

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☐ Training Course A: Data Analytics for Drilling Optimisation (30 August 2018)
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USD 650  
USD 750  
Member (IADC/SPE)  

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USD 850  
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USD 65  
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TOTAL (USD)

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Cancellation in writing must be received by this office no later than 10 August 2018 to receive a refund less USD 150 processing fees.

Cancellation after 10 August 2018 is not eligible for refund.

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<th>After 24 July</th>
<th>Category</th>
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<tr>
<td>USD 800</td>
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<td>Member (IADC/SPE) (Full Conference)</td>
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<td>USD 1,250</td>
<td>USD 1,400</td>
<td>USD 1,550</td>
<td>B</td>
<td>Member (IADC/SPE) (Full Conference + 1 Day Training Course) - Training Course</td>
</tr>
<tr>
<td>USD 900</td>
<td>USD 1,050</td>
<td>USD 1,200</td>
<td>C</td>
<td>Nonmember (Full Conference)</td>
</tr>
<tr>
<td>USD 1,550</td>
<td>USD 1,700</td>
<td>USD 1,850</td>
<td>D</td>
<td>Nonmember (Full Conference + 1 Day Training Course) - Training Course</td>
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<tr>
<td>USD 750</td>
<td>USD 900</td>
<td>USD 1,050</td>
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<td>Presenter/Author/Committee/Session Chairperson (Full Conference)</td>
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<tr>
<td>USD 1,200</td>
<td>USD 1,350</td>
<td>USD 1,500</td>
<td>F</td>
<td>Presenter/Author/Committee/Session Chairperson (Full Conference + 1 Day Training Course) - Training Course</td>
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ONE DAY REGISTRATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount (USD)</th>
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<tr>
<td>G</td>
<td>USD 425</td>
</tr>
<tr>
<td>H</td>
<td>USD 475</td>
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</tbody>
</table>

TRAINING COURSES

- Training Course A: Data Analytics for Drilling Optimisation (30 August 2018)
- Training Course B: Horizontal Drilling – Design and Application (30 August 2018)

PARTICIPANTS PROFILE

<table>
<thead>
<tr>
<th>No.</th>
<th>First Name</th>
<th>Last Name</th>
<th>Job Title/ Position</th>
<th>Email Address</th>
<th>Membership No.</th>
<th>Category</th>
<th>Amount (USD)</th>
</tr>
</thead>
<tbody>
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</table>

TOTAL (USD )

REGISTRATION/ ENQUIRIES

<table>
<thead>
<tr>
<th>EMAIL</th>
<th><a href="mailto:spekl@spe.org">spekl@spe.org</a></th>
</tr>
</thead>
</table>

PAYMENT OPTIONS

- Credit Card
  Payment via credit card (American Express, Visa, MasterCard and Diners Club) is available. Credit card payment will be processed in US Dollars only.
  - Please select this option for manual payment via credit card. You will receive an e-mail with instructions on securely submitting your payment.
  - Telegraphic Transfer (Bank details will be provided on the invoice)

Cancellation Policy

- Cancellation in writing must be received by this office no later than 10 August 2018 to receive a refund less USD 150 processing fees.
- Cancellation after 10 August 2018 is not eligible for refund.
- No refund if a registrant fails to attend.

Taxes

Registration Fees are made free and clear of, and without any deduction or withholding for and on account of, any taxes, duties or other deductions. Any such deduction or withholding, if required by the laws of any country are the sole responsibility of the Participant.

REGISTRANTS ARE ENCOURAGED TO REGISTER IN ADVANCE
The above rates are inclusive of breakfast and internet in room.

• Room rates are quoted in Thai Baht currency, subject to 10% hotel service charge and government tax ( currently 7% VAT).

• The room rate in USD are exchange rate of USD1= THB 30 ( please noted that this is an indicative rate and is subject to change).

• Early departure will be charged for the duration as originally reserved.

• The entitle night penalty will be charged for no-shows on the scheduled arrival date, the amount will be automatically charged to the individual guest’s credit card.

• Request for early check in are subject to available. Full-day surcharge will be applicable for a guarantee check in before 12.00hrs.

• Late checkout shall be chargeable at 50% of room rate and full rate is chargeable after 18:00 hrs.

• All reservation must be received by July 26, 2018 to be guarantee. No booking can be accepted without credit card details or one-night deposit.

Additional services and benefits at The World Executive Club floors and Suites at THE WORLD EXECUTIVE LOUNGE on 51st Floor.

• Access to THE WORLD EXECUTIVE LOUNGE occupying the whole of the 51st floor.

• Personal Greeting with separate check in and check out reception area.

• Executive breakfast served at THE WORLD EXECUTIVE LOUNGE (alternative option to the buffet at The World Restaurant).

• Complimentary day time snacks and refreshment, tea and coffee.

• Afternoon Tea service.

• Evening Cocktails and Canapes from 5:30 PM to 7:00 PM daily.

• Late night cordials.

• Complimentary internet access at The World Executive Lounge.

• Private Library at The World Executive Lounge.

• In room DVD/VCD/CD player.

• Complimentary usage of meeting rooms at The World Executive lounge for up to a maximum of 6 hours per stay per guest room occupied (Subject to availability).

• Dedicated butler and concierge service.

• 2 pieces of laundry or pressing daily.

• Free local telephone calls (Bangkok only).

• Free internet connection in the room.

### Hotel Reservation Form

**IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition 2018**  
**August 27-29, 2018**

**Centara Grand at CentralWorld - Hotel Reservation Form**  
(Confirmation will be sent back when the hotel receives the detailed information of credit card guaranteed)

**Attention to**  
Ms.Supatra Tantisammarak  
999/99 Ramai Road Patumwan Bangkok 10330 Thailand  
Tel: +66-2 100 1234 ext 6767  
Fax: +66-2 100 6161  
Email: iadc2018@chr.co.th  
Online Booking: http:/ /cgcweventsrsvn.chr.co.th/iadc2018/

**Room Types**  
<table>
<thead>
<tr>
<th>Single Occupancy (1 person)</th>
<th>Double Occupancy (2 persons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deluxe World</td>
<td>THB 5,000++</td>
</tr>
<tr>
<td>Premium World</td>
<td>THB 5,600++</td>
</tr>
<tr>
<td>The World Executive Club Floor</td>
<td>THB 6,200 ++</td>
</tr>
<tr>
<td>World Club Deluxe</td>
<td>THB 6,200++</td>
</tr>
<tr>
<td>World Club Premium</td>
<td>THB 6,800++</td>
</tr>
<tr>
<td>Executive Suite</td>
<td>THB 11,500++</td>
</tr>
</tbody>
</table>

**Additional Services and Benefits**

- Access to THE WORLD EXECUTIVE LOUNGE occupying the whole of the 51st floor.
- Personal Greeting with separate check in and check out reception area.
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- Dedicated butler and concierge service.
- 2 pieces of laundry or pressing daily.
- Free local telephone calls (Bangkok only).
- Free internet connection in the room.

### Title: First Name: Last Name: Organization:  
Address:  
City: Country: Post Code:  
Telephone: Fax: Email:  

Please select room type and occupancy required / This reservation can be made for 1 room only.

<table>
<thead>
<tr>
<th>Check in Date:</th>
<th>Flight No.</th>
<th>Arrival Time:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check out Date:</td>
<td>Flight No.</td>
<td>Departure Time:</td>
</tr>
</tbody>
</table>

**Airport Transfer by**  
Mercedes Benz E - Class  
Arrival (THB 2,500 net / car / way)  
Departure (THB 2,500 net / car / way)  
Toyota Camry  
Arrival (THB 1,500 net / car / way)  
Departure (THB 1,500 net / car / way)

**Remark:**  
All reservation is required to be guaranteed by a major credit card.

Card No: Credit Card Type:  
Name of Cardholder: Expiry Date: