PROGRAMME

Summit Series Seminar

Drilling Automation - Do I need some too?

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
<th>Speaker</th>
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<tr>
<td>08:00</td>
<td>Registration and refreshments</td>
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<tr>
<td>08:45</td>
<td>Welcome and introduction</td>
<td>Steve Sawaryn, BP, Steering Committee Chairman</td>
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<tr>
<td>08:50</td>
<td>Keynote address</td>
<td>Dr Andy Leonard, Technology Consultant, Oil and Gas UK</td>
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<tr>
<td>09:10</td>
<td>A technical perspective on the current and future challenges and opportunities facing the automation of drilling</td>
<td>Geoff Downton, Schlumberger</td>
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<td>09:40</td>
<td>An overview of the successes and lessons learned using drilling automation in US land to improve efficiency, reliability, and wellbore quality</td>
<td>Melanie Luthi, NOV</td>
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<td>10:10</td>
<td>Robotic drilling</td>
<td>Kenneth Mikalsen, Robotic Drilling Systems</td>
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<td>10:40</td>
<td>Refreshment break</td>
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<tr>
<td>11:00</td>
<td>Real-time decision support in the automated future</td>
<td>Odd Erik Gundersen, Verdande Technology AS</td>
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<td>11:30</td>
<td>Automated drilling systems for MPD - the reality</td>
<td>Saad Saeed, Halliburton</td>
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<td>12:00</td>
<td>Using hardware-in-the-loop testing to increase confidence in the control system delivery of drilling vessels</td>
<td>Tom Pedersen, Marine Cybernetics</td>
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<td>12:30</td>
<td>Lunch</td>
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<td>13:30</td>
<td>From aerospace and nuclear to offshore drilling, systems engineering plays a key role in the development and operation of complex automated systems</td>
<td>Doug Parker, Aerojet Rocketdyne Extreme Engineering</td>
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<tr>
<td>14:00</td>
<td>A performance study of the new generation 100 ton advanced technology rig</td>
<td>Maximilian Trombitas, Bauer Deep Drilling GmbH</td>
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<td>14:30</td>
<td>Pre-implementation of an automation system on a North Sea platform: challenges and solutions</td>
<td>Benoit Daireaux, IRIS</td>
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<td>15:00</td>
<td>Refreshment break</td>
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<td>15:20</td>
<td>Down hole autonomous robotic intervention systems</td>
<td>John Keith, Welltec UK</td>
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<td>15:50</td>
<td>Well Advisor Project</td>
<td>Ken Gibson, BP</td>
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<td>16:20</td>
<td>Drilling Systems Automation Technical Section (DSATS) Roadmap</td>
<td>John Macpherson, Baker Hughes, DSATS Chairman</td>
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Posters

Electric impulse technology - long run drilling in hard rocks | Franziska Lehmann, TU Bergakademie Freiberg
Automatic mud weight control (AMWC) | Ross Colquhoun, Mud Automatics
Field premiere of along-string dynamic measurements for automated drilling optimization using downhole information | Daan Veeningen, NOV

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London, Aberdeen UK | Doha Qatar | Houston USA | Astana, Kazakhstan | Basra Iraq | Stavanger Norway
Aberdeen Evening Meetings

6.00pm for 6.30pm to 8.30pm
Presentation and networking dinner.
Aberdeen Douglas Hotel,
43-35 Market Street, Aberdeen AB11 5EL
24 Sep 2014
Shale plays: how technology, governments, regulators, academia, and the public have changed the world’s energy supply and demand equation
Joseph H Franzt, Range Resource Corporation, SPE Distinguished Lecturer

22 Oct 2014
Perforating inflow performance in natural completions
Mark S Brinsden, Shell, SPE Distinguished Lecturer

26 Nov 2014
Moving the frontiers in artificial lift technology in mature field operations
Siegfried Muessig, Rohilaufsuchungs-AG, SPE Distinguished Lecturer

28 Jan 2015
Perforating with lasers: are you ready for the power of light?
Brian Gahan, Laser Rock Technologies LLC SPE Distinguished Lecturer

25 Feb 2015
Inflow tracer monitoring: Maersk UK Experience
Maersk UK and RESMAN

Edinburgh Evening Meetings

Nov 2014
The impact and potential repercussions of unconventional hydrocarbons in the UK
Lawrence Tilt, Nemen Ltd

Feb 2015
Removal of a large wax deposition from the 8” Heimdal to Brae pipeline using a high friction jetting pig
Aidan O’Donoghue, Pipeline Research Limited

May 2015
Close visual inspections by means of remotely operated aerial vehicles (ROAVs)
Patrick Saracco, Cyberhawk Innovations Ltd

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Continuing Education Conferences

2 Oct 2014
SPE Summit Series Seminar: Drilling automation – do I need some too?

12-13 Nov 2014
SPE ICoTA 20th European Well Intervention Conference

21 Apr 2015
5th European Well Abandonment Seminar

20-21 May 2015
DEVEX

Another Perspective Committee

1-2 Oct 2014
Breaking the Cycle of Discrimination—Workplace Challenges in the Oil and Gas Industry

Young Professionals

15 Oct 2014
The Energy Apprentice – Student challenge

First Wednesday of each month
Simplified Series – Petroleum engineering de-mystified

Third Thursday of each month
Happy Hour!