SPE BERGEN
ONE DAY SEMINAR

20 April 2016
Grieghallen
Bergen, Norway
www.spe.org/events/berg
Dear Colleague

There is a big challenge in the oil and gas industry today. We have seen similar challenges in `73, `88, `98, `08 and now. The difference from previous years is that this time we have a naturally high focus on the environment and we have had high oil prices over a long period from 2010-2014. We have taken them for granted thinking that this is the way it should be which has resulted in abnormally high costs and little focus on “best practice”.

What I mean by best practice is that we have to use the best technology on the market for recovering our resources in a good environmental and economical manner.

There is, and there will still be, a large demand for energy in the future. There are still hundreds of thousands who still work in this industry and governments depend on the income from this industry. Our challenge will be to convince the European people and the rest of the world that the supply from European oil and gas will reduce global pollution. We have to convince the world that the way we extract fossil fuels is an environmental gain compared with current alternatives to fossil fuels.

We must be a leader in new technologies for extracting fossil fuels in an economic as well as the most environmentally friendly way as possible. SPE’s objective for this conference is to share the knowledge and the new excellent technical solutions which will make it possible to do both.

I hope everybody benefits from this conference and passes their new knowledge back into the industry.

Kind regards
Bjørn Erik Sissener
SPE Bergen Section Chair
Dear Delegate

This year we received a record number of abstract submissions which resulted in a high quality technical programme being selected. The quality of the technical programme will help the industry stay up to date with the latest technologies and best practices to meet the industry’s future challenges.

The current industry uncertainty linked to the oil price must not be followed by isolation. More than ever, it is of great importance to share experiences and technologies in order to meet the current industry challenges. By presenting our ideas and results in speeches and papers, we may all be able to find smarter solutions and turn declining curves upward again.

We are facing challenges to drill more advanced wells and to complete them intelligently, to extend their lifetimes, and increase their production. We also need safer, more economical options to address abandonment challenges.

This Seminar will provide an opportunity to discuss the technical and non-technical challenges across a broad spectrum of expertise allowing delegates to gain new knowledge which will make a difference in the development and innovation of the oil and gas industry locally, regionally and globally.

See the new technology! Meet people! Discuss! Learn! Have fun! We look forward to welcoming you to Bergen in 2016.

Kind regards
Thorbjørn Kaland
2016 Programme Committee Chair
Low oil price push technology advancing safer, smarter and cheaper drilling operations.

For us as an industry to survive during these times we need to invest in, develop and push for, smarter, novel solutions, both technically and related to work processes. The cost and risk elements need to be analysed and challenged in order to release the potential inherent in these solutions.

Our industry is conservative during booming times, and tends to do the operations the traditional way. There is a risk aversion regarding using and implementing new technology which has an initial cost. Also if this technology can save much more than the initial costs.

Today all stones need to be turned, and smarter solutions implemented. This will also create interesting new jobs and job content for drilling engineers.

This keynote speech will investigate these issues and illustrate with examples and personal experience from the speaker.

Rolv Rommetveit, Ph.D
2014 SPE Drilling Engineering Award
CTO eDrilling
SPONSORS
(As of 6 April 2016)

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SPE INTERNATIONAL
CONFERENCE AND EXHIBITIONS

Oilfield Corrosion
9–10 May 2016 | Aberdeen, UK | www.spe.org/ofcs
Reducing Corrosion Risks and Costs: Mission Impossible?

Oilfield Scale
11–12 May 2016 | Aberdeen, UK | www.spe.org/events/oss
# SCHEDULE OF EVENTS
(as of 6 April 2016)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730-0850</td>
<td>Registration</td>
</tr>
<tr>
<td>0800-1900</td>
<td>Exhibition Open</td>
</tr>
</tbody>
</table>
| 0900-0945  | Opening Ceremony<br>
**Welcome Address:** Marte Mjøs Persen, Mayor of Bergen<br>
**Keynote Address:** Rolv Rommetveit, eDrilling |
| 0945-1045  | Technical Session: Reservoir – Wettability and SCAL                 |
| 0945-1045  | Technical Session: Production and Operation                         |
| 0945-1045  | Technical Session: Drilling I                                      |
| 0945-1045  | Technical Session: Drilling II                                     |
| 1045-1115  | Coffee Break/Exhibition/Knowledge Sharing ePosters                  |
| 1115-1245  | Technical Session: Reservoir – Wettability and SCAL Continued       |
| 1115-1245  | Technical Session: Production and Operation Continued               |
| 1115-1245  | Technical Session: Drilling I Continued                             |
| 1115-1245  | Technical Session: Drilling II Continued                            |
| 1245-1400  | Lunch Break/Exhibition/Knowledge Sharing ePosters                   |
| 1400-1500  | Technical Session: Reservoir – Simulation and Case Studies          |
| 1400-1500  | Technical Session: Completion                                      |
| 1400-1500  | Technical Session: Drilling III                                    |
| 1400-1500  | Technical Session: Efficiency and Optimisation                      |
| 1500-1545  | Coffee Break/Exhibition/Knowledge Sharing ePosters                  |
| 1545-1715  | Technical Session: Reservoir – Simulation and Case Studies Continued|
| 1545-1715  | Technical Session: Completion Continued                            |
| 1545-1715  | Technical Session: Drilling III Continued                           |
| 1545-1715  | Technical Session: Efficiency and Optimisation Continued            |
| 1730-1845  | Welcome Reception                                                   |
| 1845-2230  | Seminar Banquet                                                     |

*Schedule subject to change.*
**TECHNICAL PROGRAMME**

0900–0945 | Peer Gynt-Salen

**OPENING CEREMONY**
Welcome Address: Marte Mjøs Persen, Mayor of Bergen
Keynote Address: Rolv Rommetveit, eDrilling

0945–1245 | Klokkeklang

**TECHNICAL SESSION: RESERVOIR – WETTABILITY AND SCAL**
Session Manager: Jan-Erik Nordtvedt, Epsis

Wettability studies are of great importance to improve recovery rate and meet the future challenges when developing new fields and extending the life time of mature fields. This session covers:
- Investigation on wettability alternation of rock-oil-nanofluid system
- In situ coreflooding studies in a Micro-CT machine
- Transport properties of functionalised silica nanoparticles
- Determining optimum aging time using novel core flooding equipment
- Solutions to the curve fitting problem of mathematical correlation and SCAL data

<table>
<thead>
<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>PRESENTATION</th>
</tr>
</thead>
</table>
| 0945  | 180054 | Determining Optimum Aging Time Using Novel Core Flooding Equipment  
M. Ahkami, K.H. Chakravarty, I. Xiarchos, K. Katika, K. Thomsen, I.L. Fabricius, A.A. Shapiro, E.H. Stenby, P.L. Fosbl, Center for Energy Resources Engineering (CERE), Technical University of Denmark (DTU) |
| 1015  | 180064 | Transport Properties of Functionalised Silica Nanoparticles in Porous Media  
B. Najafiazar, Norwegian University of Science and Technology; J. Yang, C.R. Simon, F. Karimov, SINTEF Materials and Chemistry; O. Torsater, Norwegian University of Science and Technology; T. Holt, SINTEF Petroleum Research |
| 1115  | 180059 | Solutions to the Curve Fitting Problem of Mathematical Correlation and SCAL Data  
I.H. Arief, L. Xue, F. Lomeland, Statoil |
| 1145  | 180000 | Perched Water Static Model  
T.A. Rolfsvaag, T. Danielsen, ConocoPhillips |
| 1215  | 180008 | Wireless Reservoir Monitoring Reducing Reservoir Uncertainty During Barents Sea Appraisal – A Case History for Norvarg  
B.P. Champion, Expro |
These presentations show the importance of collaborating subjects like chemistry, physics and mathematical modelling in order to develop new methodology for operational challenges. The session topics will include:

- Polymer-based gelants for improved oil recovery and water control in chalk
- Visualisation and quantification of fluid through degraded cement sheaths
- Experimental investigation of defects in a downscaled casing-cement-rock assembly
- Successful fracture execution of a gas well
- Plug and abandonment solution for oilfield decommissioning

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<thead>
<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>PRESENTATION</th>
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<tbody>
<tr>
<td>0945</td>
<td>180024</td>
<td>Polymers and Polymer-Based Gelants for Improved Oil Recovery and Water Control Applications in Naturally Fractured Chalk Formations D.G. Hatzignatiou, University of Stavanger (UiS) and International Research Institute of Stavanger (IRIS); N.H. Giske, A. Stavland, IRIS</td>
</tr>
<tr>
<td>1015</td>
<td>180051</td>
<td>New Insight to Wormhole Formation in Polymer Gel during Water Chasefloods using Positron Emission Tomography (PET) B. Brattekas, University of Stavanger; M. Steinsbo, A. Graue, M.A. Ferno, H. Espedal, University of Bergen; R.S. Seright, New Mexico Petroleum Recovery Research Centre</td>
</tr>
<tr>
<td>1115</td>
<td>180040</td>
<td>Plug and Abandonment Solution for Oilfield Decommissioning in the North Sea P.C. Aguilar, C.R. Johnson, J.M. Salazar, M. Bogaerts, Schlumberger</td>
</tr>
<tr>
<td>1145</td>
<td>180019</td>
<td>Visualization and Quantification of Fluid Flow Through Degraded Cement Sheaths R. Skorpa, T. Vralstad, SINTEF Petroleum Research/DrillWell</td>
</tr>
<tr>
<td>1215</td>
<td>180052</td>
<td>Integrity of Downscaled Well Models Subject to Cooling J. Todorovic, K. Gawel, A. Lavrov, M. Torsaeter, SINTEF Petroleum Research</td>
</tr>
</tbody>
</table>
This drilling session presents several new technology systems and how they may be used in more challenging formations, pressure regimes and depth. The session will cover:

- Deepest deployment of riserless dual gradient mud system
- Rotary steerable system for casing drilling
- New on-command integrated under-reamers
- A case study of drilling 12” x 13” and 8” x 9” sections
- LWD formation fluid sampler collecting first fluid samples during deep water drilling
- Real-time casing collar locator technology to optimise casing exit operations

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<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>PRESENTATION</th>
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<tbody>
<tr>
<td>0945</td>
<td>180011</td>
<td>Shoe Track Drillout Analysis: Factors Affecting Drilling Efficiency</td>
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<td>E. Wiktorski, University of Stavanger, former Halliburton; T. Kaland,</td>
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<td>Halliburton; M. Belayneh, University of Stavanger</td>
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<td>1015</td>
<td>180005</td>
<td>New On-Command Integrated Under Reamer Elevated Drilling Performance,</td>
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<td>Reduced Operational Risks and Lowered Cost: A Case Study in the Oseberg</td>
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<td>J.M. Ahlberg, L. Fang, K. Hoff, A. Manseth, S. Schwartz, Baker Hughes;</td>
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<td>J.F. Larsen, K. Borlaug, K. Longvastol, Statoil</td>
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<td>1115</td>
<td>180010</td>
<td>LWD Formation Fluid Sampler Tool Collects First Fluid Samples While Drilling</td>
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<td>In Deep Water On The Norwegian Continental Shelf</td>
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<td>Keriksen, G. Digranes, Statoil</td>
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<td>1145</td>
<td>179999</td>
<td>Deepest Deployment Of Riserless Dual Gradient Mud Recovery System In</td>
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<td>Drilling Operation In The North Sea</td>
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<td>E. Claudey, C. Maubach, Enhanced Drilling; S. Ferrari, Shell</td>
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<td>1215</td>
<td>180006</td>
<td>Development and Field Testing of a Real-Time Casing Collar Locator Technology</td>
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<td>To Optimize Casing Exit Operation</td>
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<td>L. Fang, K.I. Dahlberg, B. Lydvo, K. Olsnes, Baker Hughes</td>
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Controlling the well and formation pressure requires controlling the well fluids. The current process of testing and implementing new chemicals to the fluid systems is essential to achieve the new knowledge of meeting challenges in more complex well systems. Mature fields, HTHP, and extreme deep water drilling all explain why the fluid systems need to be the subjects of research and improvement. Good examples are shown here:

- Micronised drilling fluids drill extremely depleted reservoirs with high overbalance
- Ultra high density kill fluids on challenging well-kill operations
- Long-term integrity cements at downhole conditions
- Nano sized additive with expansion property for oil well cement
- Optimised cement systems and placement techniques for tight-clearance liners

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<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>PRESENTATION</th>
</tr>
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| 0945  | 180055  | **Use of Specially Treated Micronized Barite Fluid System with Wellbore Strengthening Approach to Drill Extremely Depleted Reservoir – HPHT Kvitebjørn Field, Offshore Norway**  
A. Ay, T. Sagberg, K.R. Gyland, A. Askø, M-I Swaco, a Schlumberger Company; O.H. Jordal, Ø. Døssland, Statoil |
| 1015  | 180047  | **Impact of New and Ultra-high Density Kill Fluids on Challenging Well-kill Operations**  
| 1115  | 180058  | **Long-term Integrity of Well Cements at Downhole Conditions**  
T. Vralstad, J. Todorovic, SINTEF Petroleum Research/DrillWell; A. Saasen, Det norske oljeselskap and University of Stavanger; R. Godøy, Statoil |
| 1145  | 180038  | **Nano-sized MgO with Engineered Expansive Property for Oil Well Cement Systems**  
N. Jafariesfad, Y. Gong, M.R. Geiker, P. Skalle, NTNU |
| 1215  | 180001  | **Optimized Cement Systems and Placement Techniques for Tight-Clearance Liners**  
R. Verbakel, J.M. Salazar, Schlumberger; M. Van Aerssen, Wintershall |
### TECHNICAL SESSION: RESERVOIR – SIMULATION AND CASE STUDIES

**Session Manager:** Edel Reiso, Statoil

The session reveals interesting new research from reservoir studies, that may improve the understanding of reservoir behaviours. The session covers:

- Dynamic reservoir characterisation
- 4D seismic with wavelet multi-resolution analysis
- Delineate the Laminated Reservoir Profile While Drilling
- Study of water shut-off with RPM gels
- Workflow for optimal injection of CO₂ to enhance oil recovery in mature fields

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<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>PRESENTATION</th>
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</thead>
</table>
| 1400 | 180061 | Dynamic Reservoir Characterization And Production Optimization By Integrating Intelligent Inflow Tracers And Pressure Transient Analysis In A Long Horizontal Well For The Ekofisk Field, Norwegian Continental Shelf  
M. Prosvirnov, A. Kovalevich, ConocoPhillips; G. Oftedal, C.A. Andresen, RESMAN AS |
| 1430 | 180025 | An Ensemble 4D Seismic History Matching Framework with Sparse Representation Based on Wavelet Multiresolution Analysis  
X. Luo, T. Bhakta, IRIS; M. Jakobsen, UoB & IRIS; G. Naevdal, IRIS |
| 1545 | 180021 | Delineate the Laminated Reservoir Profile While Drilling for Optimal Well Placement with Uncertainty Management  
Y. Wu, J. Li, J. Wan, S. Xiong, CNOOC-Shenzhen; B. Chang, C. Wang, C. He, B. Yang, Schlumberger |
| 1615 | 180062 | Simulation Case Study of Water Shut-off With RPM Gels In An Oil Field In Northern Germany  
M. Jokari Sheshdeh, Technical University of Clausthal; K.N. Awemo, A. Yadav, DEA Deutsche Erdöl AG |
| 1645 | 180029 | Workflow for Optimal Injection of CO₂ to Enhance Oil Recovery in Mature Oil Fields: A Preliminary Study for a Field Pilot Program  
Z.P. Alcorn, M.A. Ferno, A. Graue, University of Bergen |
TECHNICAL PROGRAMME

1400–1715 | Småtroll

TECHNICAL SESSION: COMPLETION

Session Manager: John Fallstrøm, Halliburton

Well completions in the NCS have met great challenges and developed lots of new technology and methodology that has met international recognition. This session shows good examples of this by presenting:

- Enhanced oil recovery by implementing autonomous inflow control device
- Well annular barrier for mitigation of SCP
- Innovation of annular sealants
- Expandable liner hanger that provides metal to metal sealing for ERD wells
- Effect of rheology on annular sealing, wellbore finite element stress modelling

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<thead>
<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>PRESENTATION</th>
</tr>
</thead>
</table>
| 1400  | 180037 | Enhanced Oil Recovery On Troll Field By Implementing Autonomous Inflow Control Device  
M. Halvorsen, M. Madsen, M. Vikøren Mo, Statoil; I. Ismail, A. Green, Tendeka |
| 1430  | 180020 | Evolution of a Well Annular Barrier for Mitigation of SCP  
J. Bården, V. Dagestad, Welltec |
| 1545  | 180041 | Innovation of Annular Sealants during the Past Decades and Their Direct Relationship with On/Offshore Wellbore Economics  
| 1615  | 180012 | Expandable Liner Hanger Technology Provides Metal-to-Metal Sealing and Improved Anchoring Solution for ERD Wells: Case History in North Sea  
A. Stautzenberger, S.A. Baird, G. Lundgård, Halliburton |
| 1645  | 180046 | A Holistic Approach to Sand Control  
S. Maclachlan, C.S. Harper, Baker Hughes Reservoir Development Services |
Drilling consists of a wide range of subjects, methods and product developers. Managing a successful drilling project or contributing with services to a project requires a good overall understanding. This section covers several important issues that will upgrade your overall understanding of advanced drilling projects:

- Slot recovery using open hole cement plug kick offs
- A numerical study of gas kick migration
- Consideration of available surface power on a high-specification rig
- Kick detection capability of oil-based muds
- Problems related to methane invasion in OBM while overbalanced

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<thead>
<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>PRESENTATION</th>
</tr>
</thead>
</table>
| 1400 | 180044 | **Economical Slot Recovery Using Open Hole Cement Plug Kick Offs, A Proven Success In North Sea**
| 1430 | 180053 | **A Numerical Study of Gas Kick Migration Velocities and Uncertainy**
K. Fjelde, University of Stavanger; J. Frøyen, SINTEF; A. Ghauri, University of Stavanger |
| 1545 | 180026 | **Taming the Beast: Consideration of Available Surface Power When Using a Modern, High-Specification Rig**
M.W. Snowie, Talisman Sinopec Energy UK Ltd; H. Alemi, Schlumberger D&M |
| 1615 | 180039 | **Kick Detection Capability of Oil-based Muds in Well Control Situations**
H. Linga, A. Torsvik, SINTEF Petroleum Research/Drill Well; A. Saasen, Det norske oljeselskap and University of Stavanger |
| 1645 | 180035 | **Discussion on Potential Problems due to Methane Invasion in OBM while Overbalanced**
J. Petersen, L.A. Carlsen, IRIS |
Cost saving, hazard reduction, efficiency and management control are key words frequently mentioned when the consequences of falling oil prices need to be considered. Our industry may only develop and expand when we have the optimism, dedication and ability to create visions for a new path into the future. To help us to achieve this we must analyse past development, how technology has been used and how we can organise technology and systems better and smarter. This session presents important contributions to find new solutions and ways to better organise data and technology. The session covers:

- Norwegian open source P&A database
- How IO may contribute to improve the efficiency on NCS
- Increasing quality in Qhse in a common platform for the industry
- Addressing the health risks of silica cement
- HMS management through machine learning

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<thead>
<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>PRESENTATION</th>
</tr>
</thead>
</table>
| 1400  | 180027 | **Norwegian Open Source P&A Database**  
V. Myrseth, SINTEF Petroleum Research; G.A. Perez-Valdes, SINTEF Technology and Society; S. Bakker, Norwegian University of Science and Technology; K. Midthun, SINTEF Technology and Society; M. Torsaeter, SINTEF Petroleum Research |
| 1430  | 180014 | **How Can Integrated Operation Contribute to Improve the Efficiency on the Norwegian Continental Shelf?**  
T. Kaland, University of Bergen; J. Nordtvedt, O. Seim, Epsis AS |
| 1545  | 180004 | **Increasing Quality In Qhse Work Processes By Introdusing A Common Platform For The Industry**  
J. Holst, AGR; H. Snotun, P.A. Mathisen, AGR Software |
| 1615  | 180016 | **Addressing the Health Risks of Silica Cement: A Custom Solution for Norway**  
C.R. Johnson, J.S. Knowles, B. Rønnekleiv, Schlumberger |
| 1645  | 180032 | **Advanced Big Data Analytics Improves HSE Management**  
M. Tarrahi, Shell; A. Shadravan, ReservoirFocus LLC |
<table>
<thead>
<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>STATION</th>
<th>PRESENTATION</th>
</tr>
</thead>
</table>
| 1050  | 180031   | Station 1 | Four Years of Continuous Foamer Application in Southern North Sea Offshore Gas Wells  
N.A. Vogelij, Nederlandse Aardolie Maatschappij BV; C.A. Veeken, Petroleum Development Oman; R.I. Islamov, B. Lugtmeier, O. Ros, G. De Vries, N.A. Zhidkova, Nederlandse Aardolie Maatschappij BV |
| 1050  | 180063   | Station 2 | Comparison of Rheological Properties of Oil-Based and KCl Drilling Fluids     
B. Werner, Norwegian University of Science and Technology; B. Lund, V. Myrseth, SINTEF Petroleum Research; A. Saasen, Det norske oljeselskap ASA and University of Stavanger; K.R. Gyland, M-I SWACO; Z. Ibragimova, Statoil |
| 1050  | 180022   | Station 3 | Dynamic Simulation of Gas Migration in Marine Riser                         
N. Velmurugan, Norwegian University of Science and Technology; J. Godhavn, E. Hauge, Statoil ASA |
| 1100  | 173068   | Station 1 | Faster ROP in Hard Chalk: Proving a New Hypothesis for Drilling Dynamics     
E. Akutsu, M. Rodsjo, Det norske; J. Gjertsen, M. Andersen, NOV; N. Reimers, M. Granhøy-Lieng, Tomax; E.A. Strøm, K.A. Horvei, Halliburton |
| 1100  | 180066   | Station 2 | Reducing NPT of Rigs Operation Through Competency Improvement: A Lean Manufacturing Approach   
A.E. Basbar, A. Al Kharusi, Swift Technical Solutions; A. Kindi, Quartet Solutions |
| 1100  | 180007   | Station 3 | Cuttings Transport Modeling – Part 1: Specification of Benchmark Parameters with a Norwegian Continental Shelf Perspective  
A. Busch, Norwegian University of Science and Technology (NTNU); A. Islam, Statoil; D. Martins, ENGIE E&P Norge AS; F.P. Iversen, International Research Institute of Stavanger (IRIS); M. Khatibi, University of Stavanger (UiS); S.T. Johansen, SINTEF Materials and Chemistry; R.W. Time, University of Stavanger (UiS); E.A. Meese, SINTEF Materials and Chemistry |
## TECHNICAL PROGRAMME

### ePoster Schedule – First Floor

**1330–1400**

<table>
<thead>
<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>STATION</th>
<th>PRESENTATION</th>
</tr>
</thead>
</table>
| 1335 | 180021 | Station 1 | Delineate the Laminated Reservoir Profile While Drilling for Optimal Well Placement with Uncertainty Management  
Y. Wu, J. Li, J. Wan, S. Xiong, CNOOC-Shenzhen; B. Chang, C. Wang, C. He, B. Yang, Schlumberger |
| 1335 | 180028 | Station 2 | Effect of Rheology on Annular Sealing: From Placement to Failure  
A. Lavrov, M. Torsaeter, SINTEF Petroleum Research |
| 1335 | 180034 | Station 3 | Inverse Modeling for Fluid System Characterization through Machine Learning Algorithms  
M. Tarrahi, Shell; A. Shadravan, ReservoirFocus LLC |
| 1345 | 180003 | Station 1 | Observing 2nd Mode Of Torsional Vibration Of The Drill String Using A High Resolution Downhole Data Recorder  
G. Corrie, C. Jeffrey, S. Keshiyev, National Oilwell Varco |
| 1345 | 180033 | Station 2 | Machine Learning Leads Cost Effective Intelligent Fluid Design: Fluid Engineering Perspective  
A. Shadravan, ReservoirFocus LLC; M. Tarrahi, Shell |
| 1345 | 180017 | Station 3 | Innovative Concepts in Wireline Continuous Coring  
R. Ashena, W. Vortisch, M. Prohaska, G. Thonhauser, University of Leoben |
### TECHNICAL PROGRAMME

#### ePoster Schedule – First Floor

**1500–1545**

<table>
<thead>
<tr>
<th>TIME</th>
<th>PAPER#</th>
<th>STATION</th>
<th>PRESENTATION</th>
</tr>
</thead>
</table>
| 1505 | 180002 | Station 1 | **Dynamic Attributes for Characterization of Complex Oil Reservoirs, a Case Study from R. Trebs Oil Field, Timan-Pechora Basin, Russia**  
K. Shumyatbaev, O. Privalova, E. Gainullina, R. Akhmetzyanov, A. Chervyakova, A. Melnikov, BashNIPIneft; A. Fedorov, O. Kuchurina, Bashneft-Polus |
| 1505 | 180065 | Station 2 | **Thermal Effects on Subsea Wellhead Fatigue During Workover Operations**  
L. Cantinelli Sevillano, J. De Andrade, S. Sangesland, M. Stanko, Norwegian University of Science and Technology (NTNU) |
| 1505 | 180049 | Station 3 | **Nanoscale Morphology of Brine-Oil-Mineral Contacts in Connected Pores of Carbonate Reservoirs: Insights on Wettability from Cryo-BIB-SEM**  
J. Schmatz, J. Klaver, M. Jiang, J.L. Urai, RWTH Aachen University |
| 1515 | 180018 | Station 1 | **Subsea Blowout Source Control Technologies Utilized at the Macondo Accident and Developments in the Post-Macondo Era**  
D.T. Kutas, P. Bailey, M. Prohaska, Montanuniversitaet Leoben |
| 1515 | 180067 | Station 2 | **Adopting Seismic Methodologies to Acoustic Logging Applications**  
S.B. Ley, P.B. Biswas, GeoBiz Technology, Inc. |
| 1515 | 180015 | Station 3 | **Production of Sedimentary Methane Hydrates by Depressurization**  
S. Almenningen, J. Flatlandsmo, M.A. Ferno, G. Ersland, University of Bergen |
| 1525 | 180060 | Station 1 | **Pore-Scale Mechanisms during Low Salinity Waterflooding: Water Diffusion and Osmosis for Oil Mobilization**  
S.B. Fredriksen, A.U. Rognmo, M.A. Fernø, University of Bergen |
| 1525 | 180045 | Station 2 | **Mathematical Approach of MSE in Thermo-poro-elastic Conditions Improves Decision Making to Use RWD**  
A. Roohi, A.M. Elmgerbi, A. Nascimento, M. Prohaska, G. Thonhauser, Montanuniversitat Leoben |

*As of 6 April 2016 all authors and company affiliations are listed in this programme as submitted to SPE*
EXHIBITION FLOORPLAN
(as of 6 April 2016)

FIRST FLOOR

1. Interwell
2. IRIS AS
3. Wellbore AS
4. Enhanced Drilling
5. ALTUS Intervention AS
6. SINTEF Petroleum AS
7. TCO
8. Cabot Speciality Fluids Limited
9. SPE Bergen Section
10. Tomax
11. Visuray
12. Halliburton
13. UTC
14. GCE Subsea
15. Offshore Media Group AS
16. Huisman Norge AS
17. Welltec Oilfield Services (Norway) AS
18. Omega Completion Technology
19. Expro Norway AS
20. FourPhase
21. Namtvedt Sealmaker Services AS
22. SPE Bergen Student Chapter
23. ClampOn AS
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ALTUS Intervention is a leading provider of well intervention services and power mechanical application tools. We have more than 35 years of experience and currently employ over 1000 people in Scandinavia and the UK. The company’s upbringing in harsh offshore environments has taught us how to perform intervention operations safely and efficiently. We offer wireline, wireline tractor, coiled tubing, pumping and logging services in Norway, Denmark and the UK. Our UK operation also offers pipeline and process services. We pride ourselves on our depth of experience and knowledge, setting high standards for safety and quality in everything we do.

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Cabot Specialty Fluids supplies high-density (up to SG 2.3), solids free, non-damaging cesium formate brines for use as drilling, completion, intervention and suspension fluids in challenging operations, which can provide:
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300 successful well operations and endorsed by many of the world’s leading exploration and production (E&P) companies.

Our formate experts and talented field engineers support our customers around the world, providing you with optimum fluid solutions for the toughest field developments.

We are headquartered in Aberdeen, UK with additional offices and operations in Bergen, Norway and Singapore and further stock points in USA, Belgium and Canada.

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ClampOn is the leading manufacturer of topside and subsea ultrasonic intelligent sensors for sand monitoring, PIG detection, corrosion-erosion monitoring, vibration monitoring and leak monitoring. Our sensors are nonintrusive and are clamped to the outside of the pipe or structure. ClampOn subsea sensors come in both ROV installable and pre-installable versions.

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Designs, manufactures and operates drilling solutions for the global offshore industry. We provide safety-enhancing, benefit-delivering technology and services to our customers. Our RMR® (Riserless Mud Recovery) system, together with its sister technology CTS (Cuttings Transportation System), has been deployed on more than 600 wells worldwide. The MPC Managed Pressure Cementing system, meanwhile, is a complementary technology to RMR®. Enhanced Drilling also has the EC-Drill® Managed Pressure Drilling system, which has been used on the Norwegian Continental Shelf and in the Gulf of Mexico. The company has offices in Norway, the United States, the UK, Azerbaijan, Malaysia and Australia.

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Expro can trace its history on the Norwegian Shelf back to the dawn of the oil age in Norway. We are the leading provider of well testing and subsea safety systems in the North Sea area. Our growth has been a result of organic growth and acquisitions. Today we are approximately 300 people across three locations; Stavanger (HQ/ well test), Haugesund (fluid sampling) and Bergen (subsea safety systems).
We have a track record for working with all the major oil and gas operators both in Norway and internationally. Come visit our stand and learn more!

FourPhase
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Founded in 1919, Halliburton is one of the world’s largest providers of products and services to the energy industry. With more than 65,000 employees, representing 140 nationalities in approximately 80 countries, the company serves the upstream oil and gas industry throughout the lifecycle
of the reservoir – from locating hydrocarbons and managing geological data, to drilling and formation evaluation, well construction and completion, and optimising production through the life of the field.

**Our Business**

Halliburton comprises 13 product service lines (PSLs). The PSLs operate in two divisions: drilling and evaluation, and completion and production.

Our consulting and project management PSL works across both divisions and is the spearhead of our integrated-services strategy. PSLs are primarily responsible and accountable for strategy, technology development, process development, people development and capital allocation.

**GCE Subsea**

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GCE Subsea is an industry driven initiative for strengthening and internationalisation of businesses, research and education. We represent the world’s most complete cluster for subsea life-of-field solutions. Our goal is to increase the cluster’s competitiveness and global market share, and take a leading position in sustainable utilisation of ocean resources.

In order to achieve these goals we focus on:

- Develop competence and attract talents and investors
- Develop subsea solutions beyond oil and gas
- Stimulate technology development
- Create new entrepreneurs and grow businesses
- Succeed in the global market
- Improve work and production processes

More than 120 companies and organisations form the foundation of the GCE Subsea cluster.

**Interwell**

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Interwell is an oil service company operating globally. Our goal is to ensure increased hydrocarbon recovery and barrier security for global upstream energy companies by focusing on research, development, operation and testing of new/existing tools and technologies. Our company is a coalition of oil field experienced personnel from diverse backgrounds, whose wide range of skills are utilised fully in order to get the best results and the most effective service for our valuable clients.

**IRIS AS**

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IRIS International Research Institute of Stavanger, is a research and innovation company established in 2006. The company has 200 employees, solid finances and is owned by the University of Stavanger and the foundation “Rogaland Research”. The company consists of three research departments, Ullrigr Drilling and Well Centre, IRIS Forskningsinvest and related subsidiaries. R&D activities by IRIS embrace both contract research and basic research. Key research areas are in the energy,
environment and society sector. The goal is to help the community’s need for knowledge and idea development and the industry’s need for innovative solutions.

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Namtvedt Sealmaker Service is the sealing of leaks expert company. Our company is expanding from only operating on the Norwegian Continental Shelf to performing operations in the UK and Danish sectors. Our specialists have also executed work in the Middle East. The company is growing due to an excellent working agreement with Sealmaker Int. (our Sealmaker division) and with Citadel Technologies Inc. (our Carbon fibre pipe repair division). Due to leaks, wells are shut in and by using our technology, we bring it back on production with operation cost just a fraction of what the oil company’s gain is.

Omega Completion Technology

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Omega Completion Technology is a privately owned and independent completion and intervention tool service provider. The company’s in-house design, manufacturing and assembly expertise in mechanical and electronic components provides clients with some of the most reliable oilfield equipment available. The main intervention product group is the complete Retrievable Bridge Plug packages with all relevant accessories. The main completion product group is based on the unique ReAct technology portfolio with wireless and Remote Activation functionality. This technology platform is very flexible, where tools can be actuated remotely from the surface at a pre-determined time or after a unique pressure signature.

Offshore Media Group AS

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Offshore Media Group is the company behind the exhibition concept Offshore Technology Days (OTD). OTD is established as the leading annual oil exhibition for the supplier industry to the Norwegian Continental Shelf, gathering over 500 exhibitors and 25 to 30,000 visitors. The show alternates between Stavanger and Bergen and is a contributor to building a stronger bridge between the Western Norway’s two major oil cities and markets.

SINTEF Petroleum AS

(SINTEF Petroleum Research)

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SINTEF combines theoretical work with laboratory experiments and field experience, and focuses on making results from the work available for operational team, in order to contribute to faster, safer and cheaper drilling and well operations while also caring for the long term integrity of the wells.

TCO

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Founded in 1998, TCO is a provider of products and services to the global oilfield services industry. The company serves the upstream oil and natural gas industry throughout the reservoir life cycle and specialises in the design, manufacture and installation of completion barrier plugs (laminated glass barrier plugs), chemical injection systems, topside chemical injection systems, multi-cycle valves and annulus pressure relief systems, as well as the provision of tubing-conveyed perforating (TCP) equipment and services. To read more visit us at www.tco.no.
EXHIBITORS

Tomax

Tomax AS specializes in drilling and in particular its downhole regulator technology. The Anti Stick-Slip or AST tool. In 2015 Tomax launched a new generation in-line downhole drilling regulators named XC-AST. In additional to the traditional torque based depth-of-cut regulation the XC-AST uses a counterforce principle to balance, or float, the bit on to the bottom of the hole. The optimized rock engagement secures the first turns of the bit is done without vibration to create an optimal cutting pattern. The performance is better than ever and Tomax can report continued usage in more than 94% of relevant operations.

UTC

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The subsea technology conference UTC has a well-known history of presenting highly competent speakers on current and important topics for the subsea industry. This has resulted in UTC being one of the most important international meeting grounds for subsea executives, managers, engineers and strategic and planning personnel. UTC 2015 will be the 21st Underwater Technology Conference and 900 professionals and 60 exhibitors are expected to attend on 17 – 18 June in Bergen. The topic of the upcoming conference is “Subsea under pressure – innovating for the next wave” UTC, and the hosting foundation UTF, are organising partners with the SPE Bergen Section.

Visuray

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Visuray is an oilfield service company that is pioneering downhole X-ray imaging to mitigate our customers’ risks by providing them the power to see with certainty and act with confidence. Close to 50 PhD physicists and engineers from 20 countries work out of offices in Stavanger and Houston. The company has launched its first commercial product, the VR90, which is a wireline diagnostic tool that uses ground-breaking X-ray technology to visualize in detail downhole hardware and borehole objects. The VR90 is now available to provide services.

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We are a rapidly expanding oil service company specialising in the downhole service segment and providing state-of-the-art technology, with main focus on expandable linerhanger systems and P&A and slot recovery operations. Our downhole power tool makes it possible for offshore operators to execute cost efficient slot-recovery operations, and thereby represents an effective contribution to extending the producing life of a field. This product saves valuable rig time. XPak advanced linerhanger system serves as a barrier element in new or old producing wells. Our XPak linerhanger system is a gas-tight system which makes the producing well tight and secure.

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Welltec Oilfield Services (Norway) AS develops and delivers technology and solutions intended to transform the oil and gas industry. Our game-changing solutions are dedicated to optimising the management and development of clients’ assets in the form of well completion technology and intervention services required to ensure performance and integrity. We operate in all types of onshore and offshore well environments, including the most extreme and hostile, such as deepwater, subsea, extended reach, heavy oil and unconventional gas and oil wells. Our lightweight solutions are based on a vision to improve safety while reducing environmental risks, fuel consumption and carbon footprints.
NOTICE TO ATTENDEES
All attendees are required to wear their name badge and badge holder at all times. Use of a badge by a person not named on the badge is grounds for confiscation. If you lose your event badge, please return to the registration desk to obtain a replacement. No one under the age of 15 is permitted into the conference, reception, coffee breaks, lunches, or exhibition.

REGISTRATION
Full delegate registration includes technical sessions, entry to the exhibition, coffee breaks, lunch, reception, banquet, and the conference Proceedings.

Student registration includes technical sessions, entry to the exhibition, coffee breaks and lunch. The reception, banquet and conference Proceedings are not included, but can be purchased separately.

SPE Members (Unemployed) registration includes technical sessions, entry to the exhibition, coffee breaks, lunch and the conference Proceedings. The reception and banquet are not included, but can be purchased separately.

WIRELESS INTERNET ACCESS
Internet access is free of charge for all delegates.
SSID: Kongress wifi  
Password: kongress1604

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Authors/speakers must check-in at the author room (Bøygen room), on the first floor, to upload their presentations. Please meet with the session chair in the author room prior to your session for any last minute queries and to run through the session. Authors must sign-in as no-shows will have their paper removed from OnePetro.

ePOSTER SESSIONS
A knowledge sharing ePoster is a short PowerPoint presentation delivered in a more intimate environment than the main conference sessions. Knowledge sharing ePoster sessions will be held during the coffee and lunch breaks to facilitate more interactive discussions between the authors and participants. The intent is to share best practices and encourage networking.

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Full conference attendees except exhibition only and Student delegates are entitled to access the papers from the conference. Your unique 12 digit access code and detailed instructions will be provided in a download card.
To collect the proceedings card, please present the ticket provided within the the delegate badge. The conference proceedings are distributed from the registration desk.

SAFETY
One of the key components for a successful seminar is the safety of our attendees and presenters. Due to the popularity of some session topics, it is possible for overcrowding to occur in a session or meeting room. Should this occur, we must comply with policies regarding room capacity and limit admittance to a room that is at capacity. Please make plans to arrive early for sessions that you have a strong interest in attending.

EMERGENCY PROCEDURES AND FIRE EVACUATION ADVICE
An emergency briefing will be given for all attendees on Wednesday, 20 April at 0900 hours. Please make sure you are in the Peer-Gynt Salen promptly for the briefing.
In the event of an emergency, SPE staff and/or venue staff will provide conference attendees with any necessary information and instructions.

COFFEE BREAKS/LUNCHEON
All coffee breaks and the lunch will take place in the exhibition hall and are available for all attendees.

RECEPTION
The official reception will be hosted by the City of Bergen in the Grieghallen exhibition area on 20 April from 1730 to 1845 hours.

SEMINAR BANQUET
The seminar banquet will take place from 1845 to 2230 hours, following the reception and will be held at Grieghallen.

AUDIOVISUAL COPYRIGHT
SPE technical sessions are protected by copyright laws. Attendees are not permitted to record (via phone, camera, or any other recording device) the presentations made during this seminar.
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As a courtesy to the speakers and your fellow attendees, please turn off all mobile phones during sessions.

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All sessions are protected by European copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area.

ALCOHOL POLICY
We recognise the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognise that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly and in keeping with our professional code of ethics and conduct. We strongly oppose the abuse and misuse of alcohol.

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Smoking is prohibited in all areas of the Grieghallen, except in designated smoking areas.

GUESTS WITH SPECIAL NEEDS
We take pride in ensuring that our meetings and events are accessible to all attendees. The Grieghallen is equipped with elevators. Should you require special arrangements, please contact our staff at registration or headquarters.

SUSTAINABILITY STATEMENT
SPE is committed to ensuring that the environmental impact of our events is kept to a minimum. We aim to make progress in the field of sustainability through reducing energy usage, promoting eco-friendly mobility, reducing water consumption and limiting waste, all core values in keeping with those of the oil and gas industry.

ABOUT SPE
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.

ABOUT SPE BERGEN SECTION
Featuring local and international presenters, the SPE Bergen Section arranges six to eight meetings every year including SPE Bergen Sailing, SPE Bergen Lutefisk, and SPE Bergen Tech Nights, to name a few. For more information, please visit the Bergen Section website, http://connect.spe.org/bergen/events/ourevents.

SPE BERGEN YOUNG PROFESSIONALS’ PROGRAMME
The SPE recognises the importance of those who one day will be the leaders of the E&P industry. Along with many other SPE sections, the Bergen Section is facilitating a Young Professionals’ (YP) Programme to support and assist those with less than 10 years of experience within the industry (under 35 years of age).

The programme promotes knowledge exchange and networking amongst YPs in the Bergen area as well as towards other YP Programmes in Norway, Europe and globally. We strongly encourage graduating student members to continue their membership with SPE and enter the industry with the powerful backing of the most important organisation within the petroleum industry.

SPE BERGEN STUDENT CHAPTER
Established in 2006, the SPE Bergen Student Chapter has quickly become the main link between students and the oil and gas industry for the Bergen region. The chapter is one of the largest and most vibrant SPE student chapters in the world and hosts a variety of activities and events focused on knowledge enhancement and network building.

The SPE Bergen Student Chapter encourages all energy companies to present technical information and employment opportunities at their regular member meetings.