THE LIFECYCLE OF THE WELL
SPE International Bergen One Day Seminar

5 April 2017 | Grieghallen | Bergen, Norway

www.spe.org/events/berg
In retrospect the oil industry may look like a sine curve, cyclic downturns followed by upward movements. The media suggests that the industry has met the final down turn, but the facts suggest that 85% of the global energy consumed is fossil energy, and the expected increase in demand is about 35% over the next 20 years, reminders that there is still, and will continue to be, a huge need for oil and gas.

COP21 lead to a historic agreement as nearly 200 countries signed up to cut greenhouse gas emissions. The agreement will speed up the transformation of the energy sector by accelerating investments in cleaner technologies and energy efficiency. This historic change in energy delivery will not happen overnight; however, oil and gas will still be the primary energy source as we move progressively towards a lower-carbon future.

The industry is uniquely positioned to adapt and evolve in response to the opportunities presented by carbon mitigation technologies and the development of alternative forms of energy. Renewable energy sources may benefit a lot from this technology development.

No one will survive by standing still. We need to move on, develop new solutions, new technology and we need to work smarter and more economically as we move to a cleaner energy future. This conference is the best place to see the latest technology being presented and how we as an industry will tackle the future energy challenges.

Your opportunities to update knowledge and to get in touch with many interesting engineers and companies are of great value to all.
Great innovations come from great challenges

Statoil is an international energy company with operations in more than 30 countries. Our focus is to accommodate the world’s energy needs in a responsible and sustainable way. It’s not an easy task, but nothing gets our engineers going like a challenge. After all, the greatest innovations are often spurred by the greatest challenges. It’s what inspires us to keep pushing boundaries and finding better solutions. No challenge, no change. Learn more at statoil.com

Statoil. The Power of Possible
Programme Chair
Thorbjørn Kaland
Halliburton

Programme Committee Members
Katinka Dahlberg
TechnipFMC

Morten Didriksen
Schlumberger

John Fallstrøm
Halliburton

Peter Frank Smits
Statoil

Norolf Henriksen
Wintershall

Kristian Eggum Johnsen
Baker Hughes

Jan-Erik Nortvedt
Epsis AS

Edel Reiso
Statoil

Arlid Saasen
University of Stavanger

Terje Skeie
Welltec

Erlend H Vefring
IRIS

5 April 2017 | Bergen Norway
VENUE FLOORPLAN AND EMERGENCY EXITS
(as of March 2017)
## Schedule of Events

### Wednesday 5 April

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<td>0730-0830</td>
<td>Level 1 - Foyer GH1</td>
<td>Registration</td>
</tr>
<tr>
<td>0800-1830</td>
<td>Level 2 - Foyer GH2</td>
<td>Exhibition Open</td>
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<tr>
<td>0830-0945</td>
<td>Peer Gynt-salen</td>
<td>Opening Panel Session</td>
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<td></td>
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<td><strong>Key Drivers for Maximising Economic Recovery</strong></td>
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<td><strong>on the Norwegian Continental Shelf</strong></td>
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<tr>
<td>0945-1045</td>
<td>Klokkeklang, Småtroll, Peer Gynt-salen, Trolldog</td>
<td>Technical Session: <strong>Reservoir</strong></td>
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<td>Technical Session: <strong>Drilling II (Risk/Automation)</strong></td>
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<tr>
<td>1045-1115</td>
<td>Level 2 - Foyer GH2</td>
<td>Coffee break / exhibition</td>
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<tr>
<td>1115-1245</td>
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<td>Technical Session: <strong>Drilling II (Risk/Automation)</strong></td>
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<tr>
<td>1245-1400</td>
<td>Level 2 - Foyer GH2</td>
<td>Lunch break / exhibition / Knowledge sharing e-posters</td>
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<tr>
<td>1400-1500</td>
<td>Klokkeklang, Småtroll, Peer Gynt-salen, Trolldog</td>
<td>Technical Session: <strong>Well Intervention</strong></td>
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<td>Technical Session: <strong>Digital Oilfield and CO²</strong></td>
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<tr>
<td>1500-1530</td>
<td>Level 2 - Foyer GH2</td>
<td>Coffee break / exhibition</td>
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<tr>
<td>1530-1700</td>
<td>Klokkeklang, Småtroll, Peer Gynt-salen, Trolldog</td>
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<td>Technical Session: <strong>Digital Oilfield and CO²</strong></td>
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<tr>
<td>1700-1830</td>
<td>Level 2 - Foyer GH2</td>
<td>Conference reception</td>
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## TECHNICAL PROGRAMME

(Schedule subject to change)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>0800 - 1830</td>
<td>Exhibition Open</td>
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</table>
| 0830 - 0945| Opening Panel Session | **Key Drivers for Maximising Economic Recovery on the Norwegian Continental Shelf**  
Our industry’s way forward needs a great stimuli to trigger creativity. How do we work smarter, more economically, benefit from technology and make the impossible projects possible? We will challenge the panellists to come up with ideas about how to meet the challenge of renewing our industry and continue exploration, drilling and production. Where will the focus lie, on additional reserves, mature field-life extensions or technological development?  
**Moderators:**  
Thorbjørn Kaland, Conference Programme Chair, Halliburton  
Brynjulf Kvåle, SPE Bergen Section Chairman, Altus Intervention  
**Speakers:**  
Lill Harriet Brusdal, VP Petec, Technology & Competence, Statoil  
Helge Hammer, COO, Faroe Petroleum  
Børge Nerland, Head of Production, Wintershall Norge |
| 0945-1245 | Klokkeklang | **Reservoir**  
**Session Chairs:** Lars Petter Hauge, University of Bergen; Edel Reiso, Statoil  
The reservoir session shows new reservoir mapping to the Ivar Aasen field, new methods in seismic Tie in King Lear discoveries, new laboratory studies of fluid models, localisation for ensemble-based history matching methods, and new models for estimating fluid properties. |
| 0945      | 185915  | **A Novel Approach to New Field Development - Application of Reservoir Mapping Technology to the Ivar Aasen Field Development for Maximizing Field Performance and Improving Reservoir Characterization**  
| 1015      | 185922  | **Petrophysical Well Log Analysis through Intelligent Methods**  
L. Moghadasi, E. Ranaee, F. Inzoli, A. Guadagnini, Politecnico di Milano |
## TECHNICAL PROGRAMME

(Schedule subject to change)

### 0945-1245 | Småtroll

**Production and Operation**

**Session Chairs:** Ronny Nordstrøm Larsen, CapeOmega AS; Erlend Vefring, IRIS

This session will cover a variety of subjects optimising bean-up procedure after well shut-in, integrated water management cycle, EST-DST well testing with new methodologies, development and execution of sand control gas completions in the York Field in UK, and finally the most efficient use of acoustic sand monitors.

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<tr>
<th>Time</th>
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| 0945  | 185906 | Optimizing Bean-up Procedure After Well Shut-in. Simple Rock Mechanical Aspects and Operational Guidelines  
J.S. Andrews, P. Kittilsen, T. Låhne, J. Antonsen, Statoil |
| 1015  | 185940 | Using Dual Desander and Stackable Filter Unit for Cleanout After Concentric Coiled Tubing Operation  
A. Arefjord, G. Malinauskaite, FourPhase AS |
| 1115  | 185892 | ESP-DST Well Testing in a Complex Reservoir in the Barents Sea: Establishing New Methodologies and Lessons Learned  
D. De Leonardis, OMV; Y.A. Shumakov, K.L. Morton, S. Sarac, Schlumberger |
| 1145  | 185888 | The Most Efficient use of Acoustic Sand Monitors. Lessons From Several Years of Operation  
T. Haugsdal, ClampOn AS |
| 1215  | 185924 | Development and Execution of Sand Control Gas Completions in the York Field, UK Southern North Sea  
M.E. Langford, Centrica E&P; C. Couper, Halliburton; J.J. Tovar, Innovative Engineering Systems |
0945-1245 | Peer Gynt-salen

**Drilling I (Fluid/Cement/Risk)**

**Session Chairs:** Morten Didriksen, Schlumberger Norge AS; Jørn Opsahl, Tomax

This drilling session will cover new research within cement processes, managed pressure drilling, directional drilling, fluid invasion and dynamic kill operations with the relief well injection spool.

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<tr>
<th>Time</th>
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| 0945  | 185916| Drilling Fluid Rheology Under High Pressure High Temperature Conditions and its Impact on the Rate of Penetration  
O. Sukhoboka, University of Stavanger |
| 1015  | 185909| ROP Optimization and Modeling in Directional Drilling Process  
E. Wiktorski, A. Kuznetcov, D. Sui, University of Stavanger |
| 1115  | 185889| The Nature of Drilling Fluid Invasion, Clean-up, and Retention During Reservoir Formation Drilling and Completion  
J.J. Green, I.T. Patey, L. Wright, COREX; L. Carazza, Aker BP; A. Saasen, University of Stavanger |
| 1145  | 185938| Perforate, Wash and Cement (PWC) Verification Process and an Industry Standard for Barrier Acceptance Criteria  
| 1215  | 180279| Challenging Dynamic Kill Operations Made Possible With the Relief Well Injection Spool  
R.T. Oskarsen, Add Energy LLC; O.B. Rygg, add wellflow as; M. Cargol, B. Morry, Trendsetter Engineering |
**0945-1245 | Troldtog**

**Drilling II (Risk/Automation)**

**Session Chairs:** Kristian Eggum Johnsen, Baker Hughes; Sajjad Hussain, Schlumberger

This drilling session will cover drilling mud process control, automation of a laboratory-scale drilling and full scale drilling automation. Other exciting subjects are: well specific blowout contingency plans that cover engineering analysis of the deployment, installation, and soft shut-in, and new tubular design ellipse with backup pressure.

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<th>Time</th>
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| 0945  | 181393 | How to Develop a Well Specific Blowout Contingency Plan That Covers Engineering Analysis of the Deployment, Installation, and Soft Shut-In of a Subsea Capping Operation  
R.T. Oskarsen, Add Energy LLC; M.H. Emilsen, A. Paknejad, add energy;  
M. Cargol, Trendsetter Engineering; K. See, Shell Exploration & Production Co |
| 1015  | 185941 | New Tubular Design Ellipse with Backup Pressure  
| 1115  | 185929 | DEMO2000 - Drilling Mud Process Control  
R. El Boubsi, J.A. Andresen, G. Van Og, Huisman; K. Bjorkevoll, R. Nybo, SINTEF Petroleum; J.O. Brevik, Statoil; G.H. Nygaard, Cybernetic Drilling Technologies; G.G. Smith, Intelligent Mud Solutions |
| 1145  | 185898 | Challenges in the Automation of a Laboratory-Scale Drilling Rig and Comparison with the Requirements for Full Scale Drilling Automation  
E. Cayeux, IRIS; D. Sui, O. Akisanmi, O. Alani, University of Stavanger |
| 1215  | 185926 | Automatic Model Calibration for Drilling Automation  
M. Aghito, K.S. Bjorkevoll, R. Nybo, SINTEF Petroleum Research; A. Eaton, J. Hedengren, Brigham Young University |
TECHNICAL PROGRAMME
(Schedule subject to change)

1400–1700 | Klokkeklang

Well Intervention

Session Chairs: Bjørn Sissener; Terje Skeie, Welltec

The well intervention session will look at plug and abandonment from a riserless intervention, sustained intervention campaigns over a period of 10 years with riserless light well intervention, combining a surface jet pump with nitrogen lifting through coiled tubing, leakage calculator for plugged and abandoned wells, and finally, a novel strategy for restoring well integrity by curing high annulus-B pressure and zonal communication.

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<th>Time</th>
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<tr>
<td>1400</td>
<td>185891</td>
<td>Plug and Abandonment Campaigns from a Riserless Light Well Intervention Vessels Provide Cost Savings for Subsea Abandonments&lt;br&gt;T. Varne, E. Jørgensen, J. Gjertsen, ALTUS Intervention; L. Osugo, Qinterra Technologies; R. Friedberg, Island Offshore; O. Bjerkvik, E.C. Halvorsen, TechnipFMC</td>
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<tr>
<td>1430</td>
<td>185914</td>
<td>Sustained Intervention Campaigns Over a Period of 10 Years with Riserless Light Well Intervention Vessels Enables North Sea Operator to Improve Operational Efficiency and Increase Recovery from its Subsea Fields&lt;br&gt;T. Varne, E. Jørgensen, J. Gjertsen, ALTUS Intervention; L. Osugo, Qinterra Technologies; R. Friedberg, Island Offshore; E.C. Halvorsen, TechnipFMC</td>
</tr>
<tr>
<td>1530</td>
<td>185912</td>
<td>Combining A Liquid Jet Compressor With Nitrogen Lifting Through Coiled Tubing For Logging A Low Pressure Horizontal Well&lt;br&gt;K.M. John, M.L. Morkved, V. Kim, Maersk Oil; D. Stewart, READ Cased Hole Ltd; G.A. Short, Transvac; R. Ellis, TGT Oilfield Services</td>
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<tr>
<td>1600</td>
<td>185890</td>
<td>Leakage Calculator for Plugged and Abandoned Wells&lt;br&gt;E.P. Ford, IRIS; F. Moeinikia, UiS; H.P. Lohne, O. Arild, M. Mansouri Majoumerd, IRIS; K. Fjelde, UiS</td>
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<tr>
<td>1630</td>
<td>185911</td>
<td>Innovative Remediation Techniques for Restoring Well Integrity by Curing High Annulus-B Pressure and Zonal Communication&lt;br&gt;A.A. Ansari, B.M. Al-Azizi, ZADCO; A. Larsen, Hydrawell</td>
</tr>
</tbody>
</table>
Session Chairs: John Fallstrøm, Halliburton; Niklas Tyler Husefest

The completion session will cover, a traction tool for liners and sand screens, multistage stimulation technology, development and field wide implementation in a chalk field, next generation annular barrier verification systems, extended reach open hole gravel pack completion, electrical resistivity autonomous inflow control device (ER-AICD) and its application in gravel pack completions.

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<tr>
<th>Time</th>
<th>Paper</th>
<th>Presentation</th>
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</table>
| 1400  | 185927 | A Traction Tool for Liners and Sand Screens  
E. Randeberg, H. Skadsem, D.J. Gardner, S. Stokka, IRIS; H. Kyllingstad, Hole In One Producer; T. Larsen, Wintershall; M. Mosesyan, Lukoil |
| 1430  | 181644 | Cemented and Cased Hole Multistage Stimulation Technology Development and Field Wide Implementation in a North Sea Chalk Oilfield  
C. Mehus, T. Sorheim, T. Koløy, P. Lønning, NOV Completion Tools |
| 1530  | 185897 | Next Generation Annular Barrier Verification System  
V. Dagestad, J. Bårdsen, R. Reves Vasques, Welltec |
| 1600  | 185902 | Extended-Reach Open-Hole Gravel Pack Completion Under Multiple Complexities  
V. Aggarwal, V. Gupta, S. Narayan, O.H. Shado, Schlumberger |
| 1630  | 185913 | Electrical Resistivity Autonomous Inflow Control Device (ER-AICD) and its Application in Gravel Pack Completions  
N.A. Jadhav, D.S. Zhambrovskii, University of Stavanger |
1400–1700 | Peer Gynt-salen

Drilling and ERD

Session Chairs: Peter Frank Smits, Statoil; Eirik Walle, ClampOn

The Drilling and ERD session will cover presentations on optimising ERD wells, logging systems, directional surveying and cementing.

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<tr>
<th>Time</th>
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| 1400  | 181288| Overcoming Challenges, Improving Understanding, and Optimizing Liner Deployment in Long Laterals  
K.D. Mathisen, NOV; N.C. Decker, Hess Corp.; T. Sorheim, T. Koloy, Trican Completion Solutions |
| 1430  | 185895| The CHAOS-X Model and Uncertainty Values for Magnetic Directional Surveying  
E.V. Herland, Teknova AS; C. Finlay, N. Olsen, DTU Space; I. Edvardsen, Baker Hughes; E. Nordgård-Hansen, Teknova AS; K. Laundal, Teknova AS and Birkeland Centre for Space Science, University of Bergen; T.I. Waag, Teknova AS |
| 1530  | 185935| Drilling an ERD Well on the Statfjord Field, North Sea  
| 1600  | 185939| Ditch Magnets Removal of Steel Particles  
G. Pattarini, University of Stavanger; K. Moe Strømø, Sunnhordaland Mekaniske Verksted AS; A. Saasen, P.A. Amundsen, University of Stavanger; J.E. Pallin, Sapeg AS Norway; H. Hodne, University of Stavanger |
| 1630  | 185893| Micro-sonde Well Logging System  
### TECHNICAL PROGRAMME

(Schedule subject to change)

5 April 2017  |  Bergen Norway

1400–1715  | Troldtog

**Digital Oilfield and CO₂**

**Session Chairs:** Njål Grønnerød, Statoil; Jan-Erik Nordtvedt, Epsis AS

The digital oilfield and CO₂ session will include cybersecurity risks and exposures to remote operations, offshore exploratory drilling in low oil price periods, maximising value creation from flexibility, CO₂ injection within CH₄ hydrate, risk assessment methods and digital risk analysis, experience transfer and well planning.

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</table>
| 1400  | 185896 | Injection of CO₂ into an Intact Methane Hydrate Reservoir  
K. Qorbani, B. Kvamme, T. Kuznetsova, University of Bergen |
| 1430  | 185928 | Addressing the Cybersecurity Risks and Exposures to Remote Operations  
N. Sretenovic, Sretenovic Consulting; O. Slijepcevic, University of Stavanger |
| 1530  | 185933 | Well Integrity and Reliability Management in a Life Cycle Perspective  
K. Corneliussen, ExproSoft |
| 1600  | 185923 | Revisiting the Bow-Tie Risk Assessment Method: How Implementing an Unconventionals Real-Time Center Outside North America Redefined Workflow Design  
P. Kowalchuk, S. Hashem, Halliburton |
| 1630  | 185918 | Experience Transfer and Risk Analysis in Digital Well Planning  
M.B. Tvedt, Pro Well Plan |
## TECHNICAL PROGRAMME
(Schedule subject to change)

### ePoster Schedule

**Knowledge Sharing ePoster Presentations**

<table>
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</table>
| 1315  | 185894 | Full Scale Test Tower: Validation Real World Performance Of Pioneering Drilling Efficiency  
D. Roodenburg, J.A. Andresen, M. Zifchak, Huisman |
| 1315  | 185904 | Rathole Elimination BHA Success in Norwegian Seas  
S. Hussain, Y.J. Huelvan, S. Labrousse, H.K. Hassan, M. Esmat, K.S. Dhaher,  
J.D. Blackburn, Schlumberger |
| 1315  | 185931 | Influence of Construction and Deterioration on Platform Well Life Extension  
A. Rimmer, H. Saleh, 2H Offshore Engineering Ltd |
| 1330  | 185934 | Multilevel Force-Balanced Cutting Structure Layout Helped Solve PDC Bit Dullness Issues Resulting from Geosteering in Thin Reservoirs  
M.M. El-Gayar, T.S. Ali, M. Abu Talaf, Halliburton |
| 1330  | 185932 | Cement Degradation in CO2 - H2S Environment Under High Pressure - High Temperature Conditions  
O.A. Omosebi, M. Sharma, R.M. Ahmed, S.N. Shah, University of Oklahoma;  
A. Saasen, University of Stavanger; S.O. Osisanya, Petroleum Institute |
| 1330  | 185886 | Evolution of pH and Retention of Different Alkali Species for ASP Flooding Field Applications  
G.S. Kusumah, O. Vazquez, Heriot-Watt University |
| 1335  | 185899 | Pneumatic Conveying of Model Drill Cuttings - Pilot Scale Experiments and Simulations  
A. Malagalage, C. Ratnayake, Tel-Tek; W.K. H.Ariyaratne, M. C.Melaanen,  
University College of Southeast Norway; N. Aas, ArkerBP |

As of March 2017 all authors and company affiliations are listed in this programme as submitted to SPE
EXHIBITORS

1. IRIS AS
2. SINTEF Petroleum AS
3. TCO AS
4. BRI Cleanup AS
5. Cabot Specialty Fluids Limited
6. Interwell
7. Tomax
8. UTC
9. GCE Subsea
10. Offshore Media Group AS
11. NOV Completion & Production Solutions
12. Omega Completion Technology
13. FourPhase
14. SPE Bergen Section
15. SPE Bergen Student Chapter
16. Expro Norway AS

(As of 22 March 2017)
BRI Cleanup AS
Bleivassvegen 78, 5363 Ågotnes, Norway
Tel: +47.56.32.36.00
Email: post@bricu.no
Contact: Asgeir Kobbeltvedt
www.bricu.no

BRI Cleanup offers patented and field-proven Dynamic Desander System™ technology. It is the only technology on the market that employs the principle of dynamic cyclone separation in order to efficiently remove any solids from the well stream. A dynamic cyclone contains a motorised rotating impeller and combines two stages of separation in a single unit. The advantages are top separation efficiency independent of variations in well flow and pressure, no need for inlet nozzles (full bore through the entire unit) as well as minimised erosion risk and no need for inner liners (due to motorised function and smoother fluid velocity profile). DDS™ operates without a pressure drop and can even boost well pressure. Our units are highly automated and built according to all relevant industry standards. Employed on a well cleanout job, DDS™ will minimise carryover of solids into the production systems or intervention equipment. If installed permanently on a producing well or manifold with sand issues, DDS™ will allow boosting production beyond maximum sand-free rate. Dynamic Desander System is a field-proven technology with a track record of more than 13 years.

Cabot Specialty Fluids Limited
Bygg K12, PO Box 4, NO-5347 Kystbasen, Ågotnes, Bergen, Norway
Tel: + 47.557.07052
Email: csf.northsea@cabotcorp.com
Contact: Christian Busengdal, Business Director, Europe
www.cabotcorp.com/cesiumformate

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 superior: • Well control • Operational rig-time savings • Corrosion protection • Long-term productivity

Cesium formates are field-proven with more than 360 successful well operations over 17 years and endorsed by many of the world’s largest exploration and production (E&P) companies. To find out more about our range of fluids and how they can benefit your operations, please visit www.cabotcorp.com/cesiumformate

Expro Norway AS
Energiveien 12A, 4056 Tananger, Norway
Tel: +47 51 69 54 00
E-mail: bd.norway@exprogroup.com
Contact: Hallvard Fosså, Senior Business Development Manager
www.exprogroup.com

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 100 people in Stavanger (well test, completion, subsea etc) and Haugesund (fluid sampling). 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
Hegglandsdalsvegen 271, 5211 OS, Norway
Tel: +47.56.57.67.70
Email: mail@fourphase.com
Contact: Giedre Malinauskaite
www.fourphase.com

FourPhase is revolutionising the way produced solids are managed, enabling our clients to deliver a step change increase in production - while reducing the cost per barrel. FourPhase’s enhanced solids management technology improves production efficiency by enabling continuous production, at maximum flow rates, while maintaining topside process equipment integrity. The FourPhase solids removal technology removes solids at the surface. This enables operators to increase the flow rate from producing wells while at the same time staying within the ASR (acceptable sand rate) criteria. This results in increased oil recovery at a lower cost per barrel.

GCE Subsea
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Tel: +47.476.55.188
Email: anne-grethe.solbakkk@gcesubsea.no
Contact: Anne-Grethe Solbakkk
www.gcesubsea.no

GCE Subsea is an industry driven initiative for the strengthening and the 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: • Develop competence and attract talent and investors • Develop subsea solutions beyond oil and gas
EXHIBITORS

- Stimulate technology development
- Create new entrepreneurs and grow businesses
- Succeed in the global market
- Improve work and production processes

More than 100 companies and organisations form the GCE Subsea cluster.

**Interwell**

Kvernevik Ring 177, N-4048 Hafrsfjord, Norway
Tel: +47.40.00.43.99
Email: info@interwell.com
Contact: Morten Østevik
www.interwell.com

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**

P.O.Box 8046, 4068 Stavanger, Norway
Tel: +47.51.87.50.00
Email: firmapost@iris.no
Contact: Erlend H. Vefring
www.iris.no

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, Ullrigg 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.

**NOV Completion Tools AS**

Lagerveien 17, 4033 Stavanger, Norway
Tel: +47 908 66 888
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Contact: Tom Rune Koløy
www.nov.com/completiontools

NOV Completion Tools is a global specialist provider of lower completion products and services. With a focus on technology, we offer a complement of completion and intervention products intended to enhance the access point in a well, while optimizing production in the treatment operation of a reservoir. Our main focus has always been to provide robustly engineered products, working closely with the end user to ensure fit for purpose designs and efficient well installations. Our tools enable operators to improve the performance of the reservoir while achieving higher extraction ratios, saving time and increasing production.

**Omega Completion Technology**

Kanalvegen 8, 4033 Stavanger, Norway
Tel: + 47 51 29 29 30
Email: norway@omega-completion.com
Contact: Fredrik Harestad
www.omega-completion.com

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 surface at a pre-determined time or after a unique pressure signature.

**Offshore Media Group AS**

Statsminister Michelsenvei 38, 5231 Paradis, Bergen-Norway
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Email: oek@offshoremediagroup.no
Contact: Odd Eide Knudsen
www.offshoremediagroup.com

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.
Message from the Conference Programme Chairs

GENERAL INFORMATION

SINTEF Petroleum AS (SINTEF Petroleum Research)

Department of Drilling and Well
Head Office: S. P. Andersens vei 15 B, NO-7031, Trondheim
Bergen Office: Thormøhlens gate 53 C, NO-5006 Bergen, Norway
Tel: + 47.46.41.70.00
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Contact: Knut S. Bjørkevoll
www.sintef.no/petroleum

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

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 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 a combination of the two universities in Bergen 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.

TCO AS

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Email: andreas.dahlberg@tco.no
Tel: +47 469 53 735
www.tco.no

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 glass plugs, chemical injection systems, topside chemical injection systems, annulus pressure relief systems, as well as the provision of tubing-conveyed perforating (TCP) equipment and services. To read more visit us at www.tcogroup.com.

Tomax

P.O. Box 332, Forus
Stavanger, NO-4067, Norway
Phone: 47-51951170
Fax: 47-51951171
www.tomax.no

Tomax AS specialises in drilling and in particular its downhole regulator technology, the Anti Stick-Slip or AST tool. In 2015 Tomax launched a new generation of in-line downhole drilling regulators named XC-AST. In addition 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 optimised 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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Phone: 47-51951170
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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 2017 will be the 23rd Underwater Technology Conference and 700 professionals and 40 exhibitors are expected to attend on 20 – 22 June in Bergen. The topic of the upcoming conference is “Shaping our Subsea Future”, UTC, and the hosting foundation UTF, is organising partners with the SPE Bergen Section.
GENERAL INFORMATION

5 April 2017 | Bergen Norway

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 admittance to the technical sessions, exhibition, coffee breaks, lunch, reception, and one copy of the proceedings.

Student registration includes admittance to the technical sessions, exhibition, coffee breaks, lunch and reception.

Badges
Attendee badges will be available for collection at the registration desk on Wednesday 5 April from 0730 hours, badges are not mailed in advance.

Wireless Internet Access
Internet access is free of charge for all delegates.
SSID: Kongress wifi
Password: kongress1704

Notice for Speaker and Authors – ePosters
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.

Knowledge Sharing ePoster Session
The ePoster is an electronic version of a traditional poster presented on a plasma screen and authors are encouraged to present their work using a PowerPoint presentation. Knowledge sharing ePoster sessions will be held during the lunch break to facilitate more interactive discussions between the authors and participants. The intent is to share best practices and encourage networking.

Conference Proceedings
One copy of the conference proceedings is included in the full conference registration fee (the proceedings is not included in the student registration rate).

Safety
One of the key components for a successful event 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 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 procedure announcement will be made 0830 hours in Peer Gynt-Salen by a Grieghallen venue representative. Please familiarise yourself with the fire exits, the meeting point is in front of Grieghallen.

Coffee Breaks/Luncheon
All coffee breaks and lunch will take place in the exhibition hall and are available for all attendees.

Reception
The conference reception will be in Grieghallen exhibition area on 5 April from 1700-1830 hours.

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.

Mobile/Cell Phone Policy
As a courtesy to the speakers and your fellow attendees, please turn off all mobile phones during sessions.

Photographer
Please note there may be an official photographer present at this event and photos could be used in upcoming publicity as well as on the SPE website. If you do not wish to have your photo published, please notify a member of the event team.

Photography in Sessions
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.

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

Guests with Disabilities
We take pride in ensuring that our meetings and events are accessible to all attendees with disabilities. 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 the Society of Petroleum Engineers
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 164,000 members in 143 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.

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 Norway Council
The SPE Norway Council was established in June 2015 to facilitate structured collaboration between the five independent SPE Sections in Norway. The Sections are geographically located in Bergen, Northern Norway, Oslo, Stavanger and Trondheim with local boards and student chapters. The role of the Norway Council is to provide a framework for the Sections within Norway to pursue common interests in technical and professional matters related to SPE’s purpose and scope of technology. The Council consists of two members from each local Section and, new as of this year, the SPE Chair from each Section is also part of the Council. The Council will act as an advisor to the Regional Director on SPE matters in Norway and vice versa.

The SPE Norway Council will not require any funding; all the funding that the SPE Sections in Norway receive from their supporters and partners goes directly to the Sections. The Council will be a place where the Sections can unite their voices and approach players in the Norwegian oil industry who are looking for a national presence and collaboration with SPE in Norway.

Norway is an important country in the world of oil and gas and thus there are many SPE members located here, more than 2500 professionals and around 700 student members. SPE Norway will be a National Council that will focus on the co-ordination of SPE activities at national level as well as collaboration with SPE International. The Council will take part in typical activities that unite the Sections and are of national importance, it shall help grow the total member base in Norway, focus on marketing of SPE and its importance to the Norwegian industry, and interact with other professional societies and interest groups inside Norway. The establishment of SPE Norway Council is a clear sign that Norway is an important country for the SPE. SPE has a strong presence in Norway today which is due to the hard work that each local Section is carrying out every season and providing a technical and social arena for Oil and Gas professionals in Norway.

Our conferences, forums, workshops, training courses, SPE section events, and online member communities provide unmatched networking opportunities for you to stay well connected.

Join the Society of Petroleum Engineers, a not-for-profit professional association that serves a growing worldwide membership in the E&P industry. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources.

To learn more and become a member, visit www.spe.org/join.

Join the conversation.