SPE Norway Subsurface Conference

22 April 2020 | Quality Hotel Edvard Grieg, Bergen, Norway

go.spe.org/norway-subsurface
Dear Colleague,

We are pleased to welcome you to the 2020 SPE Norway Subsurface Conference in Bergen, formerly known as the SPE Norway One Day Seminar.

Our industry is in change. The focus on energy transition is growing, which is driven by the positive steps put forward in global climate discussions and rapid technology development. However, population and economic growth still drive the global need for energy to increase and we believe oil and gas will be an important part of our energy mix for decades to come.

Our industry needs to increase competitiveness during this time of change. Our ability to increase efficiency, innovate, develop and make use of new technology is ever important. Rapidly developing digital technologies is becoming a game-changer for our industry. A new way of collaboration between industry players is vital to deal with the challenges and opportunities facing us.

This conference will focus on innovation and technology, as well as operational challenges and solutions within drilling, reservoir management, and production. We believe this conference represents a unique opportunity for you to discover the latest technologies, expand your technical knowledge and build your network with like-minded professionals to discuss the latest challenges and opportunities in our changing industry context.

We look forward to seeing you in Bergen in April 2020!
About the Conference

**Renowned as the most significant forum for oil and gas professionals in Norway and the rest of the world.**

Established for more than 30 years and formerly known as the SPE Norway One Day Seminar, the SPE Norway Subsurface Conference brings together the E&P industry to expand industry technical knowledge, connect with innovators and leaders and address technical challenges facing upstream oil and gas professionals.

This event provides unrivalled technical content exploring a diverse range of oil and gas disciplines, whilst providing an interactive and collaborative learning experience.

Staged in an intimate setting, this conference aims to advance your technical knowledge and allow you to make new industry contacts with like-minded individuals. This conference is the only dedicated event in Norway addressing well, drilling, completions, and intervention issues. Listen, contribute and be heard at the SPE Norway Subsurface Conference.

**Why Attend**

- **Expand** your technical knowledge with over 30 highly focused technical papers from research-based field-tested industry topics
- **Network** with innovators and leaders who are facing similar business and technology challenges
- **Discover** the latest solutions and emerging trends affecting the industry
- **Engage** with debates that will shape the future of the oil and gas industry

**Save 10% off Registration with Early Bird Tickets**

This is your chance to **connect, communicate, and collaborate** with like-minded oil and gas professionals and discover Norway. Bergen is the most diversified region in the Norwegian oil and gas industry and a vital part of the Norwegian ocean industry.

Visit [go.spe.org/norway-subsurface](http://go.spe.org/norway-subsurface) to register for the SPE Norway Subsurface Conference 2020 and save 10% off registration for a limited time only.

**Disciplines**

- Multi-disciplinary
- Management and Information
- Health, Safety, Environment, and Sustainability
- Drilling
- Projects Facilities and Construction
- Production and Operations
- Completions
- Reservoir Description and Dynamics
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Host Organisation

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Attendee Statistics
(Based on the SPE Norway One Day Seminar 2019 Feedback Report)

Organisation Type
- Oil and Gas service and supply companies: 42%
- Oil and Gas operators: 34%
- Universities and academics: 13%
- Research: 7%
- Consultancies: 2%
- Government/regulator: 1%

Job Classifications
- Engineer: 44%
- Executive: 18%
- Manager: 17%
- Academic: 14%
- Scientist: 5%
- Consultant: 2%

Geographic Region
- Norway: 77%
- Rest of Europe: 15%
- Americas: 5%
- Africa: 2%
- Asia: 1%
Equinor – a broad energy company

We are Equinor, a broad energy company with 20,000 committed colleagues developing and producing oil, gas, wind and solar power in more than 30 countries worldwide.

Driven by our Nordic urge to explore beyond the horizon, our dedication to safety, cooperation, equality and sustainability, we are shaping the future of energy.

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Committee

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Lill Harriet Brusdal
VP PETEC, Technology and Competence
Equinor

Janne Lea
Vice President for Reservoir, Development and Engineering
Wintershall Dea

Petter Særhaug
Chief Geologist
AkerBP

Members
Nils Andre Aarseth, AkerBP
Øystein Arild, University of Stavanger
Katinka Dahlberg, FMC Technologies Inc
Saeed Fallah Bolandtaba, Wintershall Dea
Olaf Fleischer, Neptune Energy
Kjell-Rune Hoff, Baker Hughes
Thorbjørn Kaland, University of Bergen
Tom Koloy, Western Norway University of Applied Science

Giedre Malinauskaite, Cognite
Jan-Erik Nordtvedt, Epsis
Jørn Opsahl, Tomax AS
Edel Reiso, Equinor
Geir Magnus Sæternes, Lundin
Alexander Shadchnev, Schlumberger
Fredrik Varpe, Equinor
Erlend Vefring, NORCE

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 156,000 members in 154 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.
# Schedule of Events (as of January 2020)

<table>
<thead>
<tr>
<th>Room: Alexandra</th>
<th>Room: Anitra</th>
<th>Room: Nina</th>
<th>Room: Ibsen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome/Panel/Technical Session</td>
<td>Technical Session</td>
<td>Technical Session</td>
<td></td>
</tr>
</tbody>
</table>

**Wednesday, 22 April 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>0800–0900</td>
<td>Registration</td>
</tr>
<tr>
<td>0800–0900</td>
<td>Young Professionals Networking Breakfast</td>
</tr>
<tr>
<td>0800–1900</td>
<td>Exhibition Open</td>
</tr>
<tr>
<td>0900–1030</td>
<td>Opening Panel Session</td>
</tr>
<tr>
<td>1030–1100</td>
<td>Coffee Break, Exhibition, and Knowledge Sharing ePosters</td>
</tr>
<tr>
<td>1100–1230</td>
<td>Technical Session 1: Drilling &amp; Well I</td>
</tr>
<tr>
<td>1100–1230</td>
<td>Technical Session 2: Reservoir I</td>
</tr>
<tr>
<td>1100–1230</td>
<td>Technical Session 3: Optimising &amp; Operation Efficiency</td>
</tr>
<tr>
<td>1230–1330</td>
<td>Lunch Break and Exhibition</td>
</tr>
<tr>
<td>1330–1500</td>
<td>Technical Session 4: Drilling &amp; Well II</td>
</tr>
<tr>
<td>1330–1500</td>
<td>Technical Session 5: Reservoir II</td>
</tr>
<tr>
<td>1330–1500</td>
<td>Technical Session 6: Digitalisation</td>
</tr>
<tr>
<td>1500–1530</td>
<td>Coffee Break, Exhibition and Knowledge Sharing ePosters</td>
</tr>
<tr>
<td>1530–1700</td>
<td>Technical Session 7: Drilling &amp; Well III</td>
</tr>
<tr>
<td>1530–1700</td>
<td>Technical Session 8: Reservoir III</td>
</tr>
<tr>
<td>1530–1700</td>
<td>Technical Session 9: Production and Well Operations</td>
</tr>
<tr>
<td>1700–1800</td>
<td>Conference Reception</td>
</tr>
<tr>
<td>1800–2100</td>
<td>Post-Conference Dinner (optional)</td>
</tr>
</tbody>
</table>
GET INVOLVED. GET CONNECTED. GET INFORMED.

Who We Are?
SPE is a not-for-profit member association supporting more than 156,000 E&P professionals in 154 countries.

Why Join?
Connect with the E&P industry’s brightest minds through SPE’s global network of knowledge for every stage of your career.

What You Get?
Access to SPE’s vast collection of technical resources and networking channels to assist with your E&P challenges.

JOIN TODAY!

Join our worldwide membership today and receive member registration rates for SPE events. Visit go.spe.org/join.
## Programme (As of January 2020)

### Wednesday, 22 April 2020

**Opening Panel Session**

More information coming soon.

### Room: Alexandra | 1100-1230

**01T Drilling and Well I**

**Session Chair:** Thorbjørn Kaland, Western Norway University of Applied Science

This drilling session covers new technology and methodology concerning geosteering with green BHA, deep azimutal EM, designs that extend well life, improvement to barrier verification, and non-newtonian fluid flow measurement in open venturi channels. The variety of subjects provides an interesting update on different aspects of advanced drilling of challenging wells.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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</table>
| 1100  | 200749  | **Well Design Changes Extend Well Life in Subsiding Overburden at Valhall From 7 to 24 Years**  
T.G. Kristiansen, Aker BP ASA |
| 1130  | 200722  | **Logging and Geosteering with a Green BHA – Radioisotope-free LWD Formation Evaluation Including Deep Azimuthal EM and High-resolution Imaging in OBM**  
M. Horstmann, Schlumberger; M. Firinu, Var Energi; C. Shrivastava, M. Baig, Schlumberger |
| 1200  | 200762  | **A New Approach to Barrier Verification**  
A.F. Stein, Interwell Norway AS |

**Alternates**

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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</table>
|       | 200741  | **Non-newtonian Fluid Flow Measurement in Open Venturi Channel Using Shallow Neural Network Time Series and Non-contact Level Measurement Radar Sensors**  
N. Noori, T.I. Waag, NORCE Norwegian Research Centre AS; H. Viumdal, R. Sharma, University of South-Eastern Norway (USN); M.H. Jondahl, University College of Southeast Norway; A. Jinasena, University of South-Eastern Norway (USN) |
### Technical Programme (As of January 2020)

#### Wednesday, 22 April 2020

**Room: Anitra | 1100-1230**

**02T Reservoir I**

**Session Chair:** Saeed Fallah Bolandtaba, *Wintershall Dea*

This session focuses on the technologies and methods for improving recovery. The design and use of the inflow control devices on a thin oil rim reservoir in Alvheim field will be presented, which will allow us to evaluate how water alternating gas (WAG) method on an offshore reservoir with undersaturated oil can enhance the production. Lastly, the application of autonomous control devices for shutting off the gas and water production will be presented. This will be an exciting session that will enlighten you with new knowledge and inspire you!

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>1100</td>
<td>200719</td>
<td><em>Attic Oil Recovery in Alvheim Field</em> O. Urazovskaya, K. Langaas, E. Jeurissen, N. Gueze, Aker BP ASA</td>
</tr>
<tr>
<td>1130</td>
<td>200727</td>
<td><em>Simulation Study for Field Implementation of WAG as Initial Drainage Strategy</em> A. Larsen, Percon AS; T. Forland, Aker Energy; E. Oian, D. Jarlsby, Perecon AS</td>
</tr>
<tr>
<td>1200</td>
<td>200718</td>
<td><em>How International Use of Autonomous Inflow Control Valve Can be Applied in the North Sea</em> V. Mathiesen, H. Aakre, R.B. Brough, InflowControl</td>
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**Alternates**

<table>
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<tr>
<th>Paper #</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>200717</td>
<td><em>Topside Distributed Acoustic Sensing of Subsea Wells</em> A. Ellmauthaler, J.L. Maida, G. Wilson, J. Bush, Halliburton</td>
</tr>
<tr>
<td>200723</td>
<td><em>New Workflow Of The Facies Analysis And Prediction Based On Artificial Neural Network: A Case Study For The Mid-cretaceous Reservoir From The Supergiant Oil Field</em> A.J. Al Ali, K.D. Stephen, A. Shams, Heriot-Watt University</td>
</tr>
</tbody>
</table>
## Technical Programme (As of January 2020)

**Wednesday, 22 April 2020**

**Room: Nina | 1100-1230**

### 03T Optimising and Operation Efficiency

**Session Chair:** Alexander Shadchnev, Schlumberger

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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</table>
| 1100   | 200755  | **Innovative One Trip System Helps Qualifying Creeping Shale as Permanent Barrier for Plug and Abandonment of Wells on the Gyda Field**  
E. Malde, Repsol; T.A. Stokkeland, Archer; P. Staveland, Y. Frøyland, S.J. Dybvik, J. Jacobsen, Repsol; S. Opedal, Archer; T.K. Vatn, Repsol |
| 1130   | 200756  | **Automatic Well-placement Optimization Algorithm Using Hybridization of Reservoir Simulators and Proxy Modeling**  
M. Nezhadali, Norwegian Research Center NORCE; A. Zare, University of Stavanger |
| 1200   | 200754  | **A Fast Algorithm for Integrated Asset Modeling**  
P.R. Cunningham, J.F. McCann, Serafim Ltd; M. Bouhdaid, Royal Dutch/Shell Group |

**Alternate**

<table>
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<tr>
<th>Paper #</th>
<th>Presentation</th>
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| 200745  | **Driving Operations Efficiency Through Right Skilling and Remote Operations**  
A. Khan, I.B. Hamre, A. Nabil, Baker Hughes |

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## Technical Programme (As of January 2020)

### Wednesday, 22 April 2020

**Room: Alexandra | 1330-1500**

### 04T Drilling and Well II

**Session Chair:** Oystein Arild, **University of Stavanger**

This session will cover perspectives on autonomous drilling by learning from other industries, advances in automation of the drilling fluid process, cement systems designed for long lifetimes, data analysis of non-productive time and reflections on industry-academia collaboration. Authors have been selected from a range of academics, small and large companies, which will open for great discussions.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
<th>Authors</th>
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<tbody>
<tr>
<td>1330</td>
<td>200738</td>
<td><strong>Autoviscosity – A Vital Step Towards Automation of the Drilling Fluid Process on Drilling Rigs</strong></td>
<td>K. Bjorkevoll, M. Aghito, B. Lund, SINTEF; B. Blom-Jensen, G. Torpe, National Oilwell Varco; J. Brevik, Equinor; A. Fjogstad, Baker Hughes, a GE company</td>
</tr>
<tr>
<td>1400</td>
<td>200732</td>
<td><strong>A Drilling Company's Perspective on Non-Productive Time (NPT) due to Well Stability Issues</strong></td>
<td>N. Krygier, A.O. Solarin, Maersk Drilling; I. Orozova-Bekkevold, Technical University of Denmark</td>
</tr>
<tr>
<td>1430</td>
<td>200724</td>
<td><strong>How to Develop and Improve Industry – Academia Relations</strong></td>
<td>T. Kaland, Western Norway University of Applied Sciences</td>
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<th>Paper #</th>
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<tr>
<td>200753</td>
<td><strong>Effect of Long-Term Aging in Carbonated Brine on Mechanical Properties of a Novel Cement System with an Expandable Agent</strong></td>
</tr>
</tbody>
</table>
Technical Programme (As of January 2020)

Wednesday, 22 April 2020

Room: Anitra | 1330-1500

**05T Reservoir II**

**Session Chairs:** Alexander Shadchnev, Schlumberger and Olaf Fleischer, Neptune Energy

This session will focus on reservoir, fluid and well modeling approaches to improve reservoir understanding and quantify subsurface uncertainties. Challenges in reservoir modeling, prediction and fluid description will be discussed. A range of novel methodologies will be presented: ensemble-based reservoir modeling methodology applied to Ærfugl field, CFD simulation technique in detailed well modeling on Balder and Ringhorne field, PVT analysis and simulation analysis on lab results from a large PVT database on Norwegian and international fields.

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<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>1330</td>
<td>200735</td>
<td>Implementation of Ensemble-based Reservoir Modelling on the ÆRFugl Field</td>
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<tr>
<td></td>
<td></td>
<td>Ø. Tveteraas, G. Vey, A. Hjellbakk, Aker BP; K. Wojnar, Resoptima AS</td>
</tr>
<tr>
<td>1400</td>
<td>200737</td>
<td>A Novel Approach To Well Inflow Modelling Using Computational Fluid Dynamics For Balder And Ringhorne Fields</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H. Samosir, T. Hansen, Vår Energi; M.T. Byrne, L. Djayapertapa, Lloyd’s Register</td>
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<tr>
<td>1430</td>
<td>200759</td>
<td>When Can a Stock-tank Oil be a Condensate?</td>
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<td>K.K. Meisingset, A. Cely, C. Bergo, T. Yang, Equinor ASA</td>
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<th>Time</th>
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<tr>
<td></td>
<td>200763</td>
<td>Hierarchical Characterization and Modelling of Deep-water Slope Channel Reservoirs</td>
</tr>
<tr>
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<td>K. Soni, T. Manzocchi, P. Haughton, M. Carneiro, University College Dublin</td>
</tr>
</tbody>
</table>
Technical Programme (As of January 2020)

Wednesday, 22 April 2020

Room: Nina | 1330-1500

06T Digitalisation

Session Chair: Erlend Vefring, NORCE and Jan-Erik Nordtvedt, Epsis

Digital technologies like digital twins, big data, machine learning, automation and cloud computing enable improved work processes and value creation. Application of digital technologies to several field cases will be presented. This session will give insight into a digital transformation process for the Brage field, how to extract information from unstructured data like well reports, and a digital solution for event detection and support of mitigating actions for production from the Valhall field.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 1330 | 200728  | The Digitalization Journey of the Brage Digital Twin  
P. Kronberger, P. Dabrowski, Wintershall Dea GmbH |
| 1400 | 200750  | Search And Contextualization Of Unstructured Data: Examples From The Norwegian Continental Shelf  
C. Caso, Cognite AS |
| 1430 | 200731  | Digital Oilfield a Novel Approach for Protecting Base Production of a North Sea Tight Chalk Reservoir  
K.G. Jenkins, D. Shchekotov, A.R. Burgos, AkerBP |

Alternates

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 200726  | Application of Machine Learning in Offset Well Planning  
K. Adlakha, N.M. Iarssen, M. Tvedt, E. Lyngvi, Pro Well Plan AS |
| 200747  | Reservoir Sourcing – Data Visualization and Analysis Using Spotfire  
J. Xu, A. Narzulloev, I. Skjevrak, Equinor ASA |
| 200740  | Digital Twins for Optimal Drilling Operations with Application to a North Sea Oil Field  
M. Gharib Shirangi, K.S. Sims, E. Furlong, Baker Hughes |
| 200760  | Machine Learning for Fast U and O Workflows in EOR Flooding Simulation  
B. Samson, Schlumberger; C.J. Marooney, Schlumberger Oilfield UK Plc; S.N. Godefroy, S. Sheth, Schlumberger |
07T Drilling and Well III

Session Chair: Fredrik Varpe, Equinor

Aging assets and higher depletion levels mean increased challenges in terms of operations, well integrity and drilling operations. In such cases, high quality in planning and execution of well operations are very important. This session will give you insight into an approach in the planning phase, which focuses on the key elements affecting reservoir stress path, and subsequently, how our operational windows change with depletion/time. To manage a narrow window pressure margin sometimes require the use of Managed Pressure Drilling. You will gain insight into how deep reinforcement learning (DRL), machine learning (ML) in combination with a physics-based model can be used in these operations.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>1530</td>
<td>200757</td>
<td>Deep Reinforcement Learning Applied To Managed Pressure Drilling</td>
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<td>M.L. Arnø, Norwegian University of Science and Technology; O.M. Aamo, Norwegian University of Science &amp; Technology; J. Godhavn, Equinor ASA</td>
</tr>
<tr>
<td>1600</td>
<td>200734</td>
<td>Hybrid Approach for Drilling Automation</td>
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<td>M. Aghito, K. Bjorkevoll, A. Albert, SINTEF</td>
</tr>
<tr>
<td>1630</td>
<td>200742</td>
<td>Reservoir Depletion Challenges – A Geomechanics Workflow Focused on Optimizing Late-life Field Development</td>
</tr>
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<td>N. Thompson, L. Renli, Equinor ASA</td>
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<thead>
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<th>Paper #</th>
<th>Presentation</th>
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<tr>
<td>200751</td>
<td>Drill Bit Design Mitigates Consequences of Well Collision</td>
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<td>T. Verås, Halliburton; R. Bacon, T.H. Årvik, Aker BP ASA</td>
</tr>
</tbody>
</table>
## Technical Programme (As of January 2020)

### Wednesday, 22 April 2020

#### 08T Reservoir III

**Session Chairs:** Nils Andrew Aarseth, AkerBP and Olaf Fleischer, Neptune Energy

In this session you will learn how introducing a high-frequency azimuthal sonic LWD tool helps improve compressional velocity processing in formations with harsh logging conditions. A case study on how the error of rock physics modelling is reduced for 4D seismic by machine learning will also be presented. A paper on optimising the well placement from machine learning methods will also be shared.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
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</table>
| 1530  | 200761   | Accounting for Model Errors of Rock Physics Models in 4D Seismic History Matching Problems: A Perspective of Machine Learning  
|       |          | X. Luo, NORCE Norwegian Research Centre AS; R. Lorentzen, NORCE; T. Bhakta, NORCE Norwegian Research Centre AS |
| 1600  | 200743   | Optimize Well Economic Limits Using Ensemble-based Optimization on Olympus Field  
|       |          | Y. Chang, NORCE Norwegian Research Centre AS; G. Nævdal, R.J. Lorentzen, NORCE |
| 1630  | 200748   | A Revolution in Performance Using a GPU Based Simulator  
| Alternate | 200752 | Optimal Well Placement Using Machine Learning Methods: Multiple Reservoir Scenarios  
|          |          | M. Mousavi, S. Sadeghnejad, Tarbiat Modares University; H. Jabbari, University of North Dakota |
**Technical Programme** (As of January 2020)

**Wednesday, 22 April 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 1530  | 200744  | Development and Practical Application of an Analytical Well Failure Model that Improves Well Safety and Production Efficiency  
S. Girling, J. McIntosh, Girling McIntosh; P. Lumbye, Total E&P Qatar; H. Nielsen, S. Patterson, P. Lutzen, Total E&P Denmark |
| 1600  | 200736  | Use Dynamic Simulation to Diagnose the Startup Failure of a Long Horizontal Well in the North Sea  
B. Hu, Aker Solutions |
| 1630  | 200730  | A Holistic Review of 10 Years Installation of Autonomous Inflow Control Devices, Case Studies and Lessons Learnt  
M. MoradiDowlatabad, Tendeka BV; M.R. Konopczynski, Tendeka Inc; A. Green, Tendeka BV |

**Alternate**

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
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</table>
| 200746  | A Rapid, Simple, Portable Tool to Design and Analyze the Value of Inflow Control Devices (ICD) and Autonomous Inflow Control Devices (AICD)  
B. Prakasa, G. Corona Cortes, C. Allen, Halliburton |
General Information

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 held in the Exhibition area on 22 April from 1700 to 1800 hours.

Badges
Attendee badges will be available for collection at the registration desk on Wednesday 22 April from 0800 hours. Badges are not mailed in advance.

Event Registration Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full delegate registration</td>
<td>NOK 3694</td>
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<td>NOK 4104</td>
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<tr>
<td>Non-Member Early Bird</td>
<td>NOK 4424</td>
</tr>
<tr>
<td>Non-Member</td>
<td>NOK 4915</td>
</tr>
<tr>
<td>Author/Speaker/Committee Member/Session Chair</td>
<td>NOK 3564</td>
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<tr>
<td>SPE Student Member</td>
<td>NOK 300</td>
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Cancellation and Refund Policy
Cancellations must be submitted in writing to the SPE Office in London. Cancellations prior to the 25 February 2020 will receive a refund less a NOK 700 handling fee. Cancellations received on or between 26 February 2020 and 22 March 2020 inclusive will receive a 50% refund. For cancellations after 22 March 2020, no refunds will be paid although substitutions can be made.

In the unlikely case of cancellation of an event by SPE, SPE shall not accept liability for any consequential loss and shall have no liability to reimburse any other costs that may have been incurred, including transport costs, accommodation etc. SPE encourages delegates to take out travel insurance when making travel and accommodation arrangements.

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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.
Visit go.spe.org/norway-subsurface to register for the SPE Norway Subsurface Conference