

Tuesday, 11 September

Großer Saal

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| 11:30 - 13:00 | Registration |
| 13:00 - 13:10 | Welcome
<i>Thor Noevig, Chairman GeoEnergy Celle e.V.</i> |
| 13:10 - 13:30 | Program Introduction
<i>Dr. Anne Bartetzko</i> |
| 13:30 - 14:00 | Keynote Talk
Journey Ahead to Cyber Drilling System - Threading Driller, Drilling Engineer and Computers into One
<i>Dr. Robello Samuel, Halliburton</i> |
| 14:00 - 14:30 | Keynote Talk
Is Drilling Automation Making a Difference
<i>Fred Florence, RIG OPERATIONS, LLC</i> |
| 14:30 - 15:00 | Keynote Talk
Increasing Environmental Transparency in the Oil and Gas Industry – A new Initiative in Germany as an Example
<i>Dr. Michael Zettlitzer, DEA Deutsche Erdoel AG and Chairman Environmental and Safety Committee - BVEG (German Association for Oil, Gas and Geoenergy)</i> |
| 15:00 - 15:30 | Coffee Break & Networking |

Großer Saal: Session 1 "Case Studies"

Europa Saal: Session 2 "Drilling Dynamics and Measurements"

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| 15:30 - 16:00 | How Well Delivery and Well Intervention Processes minimize cost and improve efficiency
<i>Karin Hofstaetter, Wintershall Noordzee B.V.</i> | High-Frequency At-Bit Measurements Provide New Insights into Torsional Dynamics when Drilling with Steerable Mud Motors in Unconventional Horizontal Wells
<i>Joshua Wilson, Scientific Drilling International</i> |
| 16:00 - 16:30 | Northeast Operator Drills Longest Extended-Reach, Remote, Single-Run Well in US Land
<i>Anthony Ferrari, Baker Hughes, a GE company</i> | Stick-Slip Processes on Drill Strings in Simulation and Application
<i>Georg-Peter Ostermeyer, TU Braunschweig</i> |
| 16:30 - 17:00 | Real Time Geosteering Integrated Services. A Key issue in Maximising Geothermal Exposure and Minimizing Drilling/Completion Risk. A Paris Basin Case Study.
<i>Davide Di Tommaso, Weatherford</i> | Drilling and Completions Hazard Mitigation Using High-Resolution LWD Acoustic Images
<i>Nicklas Ritzmann, Baker Hughes, a GE company</i> |
| 17:00 - 17:30 | A Collaborative Approach to Transforming Field ROP Performance through the Introduction of New Bit Technology: A Case History from Key North Sea Wells
<i>William Attridge, Baker Hughes, a GE Company</i> | New Transient 3-Dimensional Torque and Drag Model for ERD Wellbores
<i>Ahmad Mirhaj, MHWirth</i> |

(ePoster) Investigation of Drill String Dynamics while Drilling through Rock Inhomogeneities

Mohamed Ichaoui, TU Braunschweig

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| 17:30 - 18:30 | Coffee Break & Networking |
| 18:30 | Conference Evening |

Wednesday, 12 September

07:30 - 08:30 **Registration, Coffee & Networking**

Großer Saal: Session 3 "Drilling Optimization and Modelling"

08:30 - 09:00 **Automatic Detection of Anomalous Drilling Operations using Machine Learning Methods and Drilling Process Simulations**
Adrian Ambrus, IRIS

09:00 - 09:30 **Increased Value Extracted from Drilling Automation as Seeing a Shift from „Drilling Faster“ to „Drilling Smarter“**
Mats Andreas Andersen, National Oilwell Varco

09:30 - 10:00 **Using Particle Filters to Estimate Bit Response for Drilling Optimization**
Benoît Daireaux, IRIS

10:00 - 10:30 **Differential Sticking Prediction During Running Liner and Drilling – Case Studies**
Arash Asgharzadeh, TU Clausthal

(ePoster) Leveraging Aerospace and Automotive to Simulate Our Way Ahead
Mark Hutchinson, Leader Drilling International

10:30 - 11:00 **Coffee Break, Networking & ePosters**

Großer Saal: Session 5 "Well Integrity and Cementing"

11:00 - 11:30 **Innovative High Multi-Resistant Cement System HMR+ Blend – Premium Solution for P&A Applications**
Nils Recalde Lummer, Fangmann Energy Services GmbH & Co. KG

11:30 - 12:00 **Restoring Storage Well Integrity**
Natalie Zamora-Anders, Halliburton

12:00 - 12:30 **Integrity Management for Underground Gas Storage**
Olaf Kruck, DEEP.KBB GmbH

(ePoster) Wellbore monitoring of gravel packing and cement pumping with distributed fiber optic strain sensing
Martin Lipus, GFZ German Research Centre for Geosciences

Europa Saal: Session 4 "Drilling and Rig Simulators"

Performance Analysis of the New Horizontal Drilling Simulator at DSC
Rodrigue Freifer, TU Clausthal

Research Conducted on a Laboratory-Scale Drilling Rig to Maximize ROP and Improve the Understanding of Complex Drill String Vibrations
Erik Andreas Løken, University of Stavanger

Mitigation Techniques for High-Frequency Torsional Oscillations - Laboratory Test and Simulation
Vincent Kulke, TU Braunschweig

Dynamics Measurements in a Full-Scale Horizontal Drilling Simulator under Realistic Conditions
Lisette Hayn, TU Clausthal / Drilling Simulator Celle

Europa Saal: Session 6 "Drilling Tools and Equipment"

Enhanced Tool Qualification Procedures Based on High Frequency Downhole Data for Increased Reliability of Drilling Tools
Armin Kueck, Baker Hughes, a GE company

Step-Change in Rotary Steerable Technology Enabled by Enhanced Casing Installation system
Geertjan van Og, Huisman Well Technology B.V.

BOP Recertification Process
Andreas Beck, MAX STREICHER GmbH & Co. KG aA

(ePoster) Alternative Approach for Block Position Tracking Using Radar Sensor Technology
Vanessa Herrera, Baker Hughes, a GE Company

Wednesday, 12 September

12:30 - 13:30 **Lunch Break, Networking & ePosters**

**Großer Saal: Session 7
"Drill Bits and Drilling Performance"**

13:30 - 14:00 **Processing and Analysis of Drilling Induced Vibrations to Obtain Elastic Rock Properties**
James Lakings, Fracture ID

14:00 - 14:30 **Data Driven Automated Bit Selection in a Collaborative Way**
Umesh Prasad, Baker Hughes, a GE company

14:30 - 15:00 **Analyzing RPM-Effects in Deep Drilling Processes Based on Single-Cutter Tests**
Zhiyi Fu, TU Braunschweig

15:00 - 15:30 **Networking Break, Exhibition & ePosters**

15:30 - 17:00 **Visit of Drilling Simulator Celle Research Institute**
(only for registered participants)

17:00 **End of Conference**

**Europa Saal: Session 8
"Geothermal Applications"**

Investigation of Physical Properties of Cements for Geothermal Wells with Emphasis on Thermal Conductivity
Helen Pedrus Chinweuba, TU Clausthal

MWD Technology for Directional Drilling in a 300°C Geothermal Environment
Dominik Hoheisel, Baker Hughes, a GE Company

GFZ Geothermal Research Platform Groß-Schönebeck
Ernst Huenges, GFZ Potsdam