

Tuesday, 13th September

Großer Saal

11:30 - 13:15	Registration
13:15 - 13:30	Welcome
13:30 - 14:00	Keynote Talk Can digital drilling solutions reduce well construction CAPEX? <i>Matthew Forshaw, Baker Hughes</i>
14:00 - 14:30	Keynote Talk Zero Carbon Lithium – Geothermal Energy as a Chance for Germany <i>Horst Kreuter, Vulcan Energie Ressourcen</i>
14:30 - 15:00	Coffee Break & Networking

Grosser Saal: Session 1 “Drilling, Process Optimization / Automation“

Celler Saal: Session 2 “Equipment“

15:00 - 15:30	Real time prediction, detection, and mitigation of drilling bit issues during drilling with the focus on bit status evaluation using along string measurement (ASM) data along the wired pipe <i>Mostafa Gomar, Norwegian University of Science and Technology</i>	Weight Monitoring Systems for Production Strings <i>Carsten Braun, ITAG - IVE</i>
15:30 - 16:00	Erosion Rate Models for Hole Cleaning Time Predictions <i>Alexander Starostin, Baker Hughes</i>	Drilling the Limit Methodology in Addressing Limiters and Trialling new Technology towards Breakthrough Drilling Efficiencies <i>Fadi Mounzer, European Drilling Projects / Shell UK</i>
16:00 - 16:30	AI Powered Tool for Preventing Drilling Mud Losses <i>Vyom Shrivastava, Schlumberger</i>	Experimental and numerical studies on releasing of the stuck pipe via BHA whirling <i>Krystof Machocki, Aramco</i>
16:30 - 17:00	Networking	

Grosser Saal: Session 3 “Drilling, Process Optimization / Automation“

Celler Saal: Session 4 “Equipment“

17:00 - 17:30	Presentation of the small-scale drilling rig technology developed for the 2022 Drillbotics® International University Competition <i>Charalampos Soilemezidis, Clausthal University of Technology</i>	Development of a novel percussion mechanism for a mud driven down-the-hole hammer <i>Volker Wittig, Fraunhofer Research Institution for Energy Infrastructures and Geothermal Systems IEG</i>
17:30 - 18:00	Recommending Optimum Parameters for Improving Rate of Penetration Safely <i>Darlington Etaje, University of Calgary</i>	The Application of Simulation During a Mud Hammer Development Project <i>Michel Bannenberg, Clausthal University of Technology</i>
18:00 - 19:00	Networking	
19:00	Conference Evening	

Wednesday, 14th September

Grosser Saal: Session 5 "Geothermal Energy"

09:00 - 09:30 **Assessing the Impact of Temperature Cycles on Well Cement in Low Enthalpy Geothermal Wells**
Al Moghadam, TNO - the Netherlands Organisation for applied scientific research

09:30 - 10:00 **Underbalanced Geothermal well Workover combining traditional oil & gas with innovative cuttings removal technologies to develop**
Abdul Saboor, Weatherford

10:00 - 10:30 **The Digital Transformation of High Temperature Geothermal Wellbore Integrity Monitoring**
Reza Khastoo, Scientific Drilling

ePoster **Transferring successful oil- and gas stimulation technology to geothermal and marginal oil- and gas fields**
Ronald den Boogert, Radial Drilling Europe

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

Großer Saal: Session 7 "Well Integrity / Completion"

11:00 - 11:30 **Cement Spacer Fluids - How much do we have to care?**
Oliver Czuprat, Wintershall Dea Technology & Service Center; Natalie Zamora-Anders, Halliburton Company Germany

11:30 - 12:00 **A digital solution leveraging the barrier definition to quantify and mitigate operational risks**
Husnu Ozgur Cengiz, Schlumberger

12:00 - 12:30 **Well integrity monitoring with fiber-optic technologies - Experiences and Possibilities**
Johannes Hart, Deutsches GeoForschungsZentrum GFZ Potsdam

ePoster

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

Celler Saal: Session 6 "Case Studies, Energy Efficiency"

Micro Turbine Drilling - A new drilling technology for drilling micro sidetracks from cased boreholes into hard reservoir rock
Niklas Geissler, Fraunhofer Research Institution for Energy Infrastructures and Geothermal Systems IEG

Reducing CO2 emissions at well planning stage, through data modelling and simulation
Holger Egbers, KCA Deutag

Geothermal Wells / Drilling Equipment and Software
Marc Anderson, HydroVolve UK

Europa Saal: Session 8 "Data / Simulation"

Delivering Data in Ultrahigh Temperature Wells from Gulf of Thailand to Europe: A Case Study from a Dutch North Sea Well
Davide Di Tommaso, Weatherford

Stochastic Solution to Well Planning
Daria Krasova, AGR Software

Tuning of a PID-Controller Based Kick Handling Solution in a Simulated Environment
Hozan Ibrahim, Clausthal University of Technology

Full-scale Infrastructure for well barrier integrity experiments and technology verification
Dave Gardner, NORCE

Wednesday, 14th September

**Großer Saal: Session 9
“Well Integrity / Completion”**

**Europa Saal: Session 10
“Data / Simulation”**

13:30 - 14:00

**Well Integrity Management System in Well
Operation Phase**

Natasya Maura, Wintershall DEA Germany

Retrofit high speed downhole communication

Robert Ewald, NORCE

14:00 - 14:30

**Innovative Technology Solution for Cap Rock
Seal in a CCS Application by Wellbore
Interception**

Jamie Dorey, Scientific Drilling International

**Influence of spiral vortices on pressure loss
while drilling**

*Yaroslav Ignatenko / Roger Aragall / Oleg
Bocharov, Baker Hughes*

14:30 - 15:00

**The Disregarded Potential Failure Mechanism
of Casing String to be discovered via Innovative
Design of Multiaxial Fatigue Setup**

Arash Asgharzadeh, Clausthal Technical University

**Understanding real-time drilling dynamics using
digital twin**

Shanti Swaroop Kandala, University of Calgary

15:00

Visit of Drilling Simulator Celle - Research Institute
(Please register for participation at Celle Drilling Registration Counter)

16:00

End of Conference