

Tuesday, 17th September

11:00 - 12:00 **Registration**

Großer Saal - Keynotes

12:15 - 12:30 **Welcome** *Thor Noevig / Philip Jaeger*

12:30 - 13:00 **The Future of Drilling**
Sven Krüger / Matthias Gatzen, Baker Hughes

13:00 - 13:30 **The Eden Geothermal Project, from Drilling to Heat Production**
Jörg Baumgärtner, Bestec GmbH

13:30 - 14:00 **Balancing Groundwater Protection and Deep Geothermal Drilling: Addressing the Conflict of Interest**
Ingo Sass, Deutsches GeoForschungsZentrum Potsdam GFZ

14:00 - 14:30 Coffee Break & Networking

Großer Saal - Session 1
Geothermal Drilling Technology

Celler Saal - Session 2
Downhole Tool Innovations

14:30 - 15:00 **Geothermal Wells and Technology**
Mike Adams, Tuboscope NOV

Increasing Efficiency and Safety in Congested Drilling Operations
Austin Pile, Scientific Drilling International

15:00 - 15:30 **Urbane Drilling Rigs – Development and validation of innovative drilling rig technology for use in inner-city areas**
Timo Trauth, Herrenknecht Vertical GmbH

Effect of Groove Shape in Rock Cutting Efficiency
Murat Panayirci, Schlumberger Cambridge Research

15:30 - 16:00 **Learning in geothermal energy generation: A comparison of recent learnings and learning barriers in Germany and the USA**
Florian Müller, ETH Zürich

A New Ultra-deep Azimuthal Resistivity Service delivers advanced reservoir mapping
Alexander Zlotnik, Baker Hughes

16:00 - 16:30 Coffee Break & Networking

Großer Saal - Session 3
Geothermal Drilling Technology

Celler Saal - Session 4
Downhole Tool Innovations

16:30 - 17:00 **Long-Term Barrier Performance Under Heating and Cooling Cycles: An Experimental Analysis of Grouting and Pellets Behavior for HT-ATES Systems**
Alexis Koulidis, TU Delft

Evaluation of Drilling Dynamic Sensor Placement In Drill Stem By Utilizing Advanced Dynamics Modelling Resulted In Substantial Improvements
Mehdi Pourtangestani, SLB

17:00 - 17:30 **Novel Return Permeability Tests: The Effect of Drilling Additives on Wells for High-Temperature Aquifer Thermal Energy Storage (HT-ATES)**
Martin van der Schans, KWR Water Research Institute

Drilling Granite With PDC Bits – A Case Study From The Utah Geothermal Application
Selin Pedrosa, Baker Hughes

17:30 - 18:00 **Insights into Drilling Engineering from the MD-BTES Construction at the SKEWS Demo Site**
Ingo Sass, Deutsches GeoForschungsZentrum Potsdam GFZ

18:00 - 19:00 Networking

19:00 Conference Evening

Wednesday, 18th September

Großer Saal - Session 5 Drilling Technology

Celler Saal - Session 6 AI / Simulation / Instrumentation Technology

09:00 - 09:30 **BETA - Accelerated Field Testing in a full scale environment**
Ruediger Biedorf, Baker Hughes

AI-Drilling Software Development and Testing for Drilling Safe and Fast
Hamed Sahebi, University of Stavanger

09:30 - 10:00 **Effective non-frac reservoir stimulation of geothermal reservoir using the Fishbones drilled multi-lateral completion system**
Jos Okkerman, Fishbones AS

From DigITSimulator to Optimizing Drilling
Victor Häfner / Felix Longge Michels, KIT Karlsruhe Institute of Technology

10:00 - 10:30 **Enhancing Drilling Efficiency and Accuracy with a Dual-Telemetry Rotary Steerable System**
Adam von Antz, Scientific Drilling

Investigation of major NPT events using a digital twin
Sigve Hovda, ComputerWell

10:30 - 11:00 Coffee Break & Networking

Großer Saal - Session 7 Drilling Technology

Celler Saal - Session 8 AI / Simulation / Instrumentation Technology

11:00 - 11:30 **Downhole Measurement of Bending Moment Provides Identification of Wellbore Stability Problems Close to the Bit and Allows for Real-time Solutions**
James Hood, Baker Hughes KSA

New Hybrid Method for a Holistic Simulation of Drilling in Full-Scale
Rodrigue Freifer, Herrenknecht Vertical GmbH

11:30 - 12:00 **With Coil Tubing Rigs shallow Geothermal Wells between 300 m and 700 m can be drilled Safer, much faster and more environmentally friendly than today**
Arthur De Mul, Huisman

Preventing Downhole Tool Failure during Geothermal Well Construction Using a Hybrid Real-Time Temperature Management Advisory System
Naveen Velmurugan, Virgil Dynamics

12:00 - 13:00 Lunch Break & Networking

Großer Saal - Session 9 Drilling Technology

Celler Saal - Session 10 Composite Materials

13:00 - 13:30 **Managed Pressure Drilling & Cementing Enable Successful Navigation of Complexities in Extended Reach Drilling Wells with Narrow Drilling Windows in the Alberta Deep Basin**
Alyssa Wen, Beyond Energy Services & Technology

Evaluating casing integrity for wells exposed to H2S: Experience from an NCS study using risk-based assessment
Eric Ford, NORCE Norwegian Research Centre AS

13:30 - 14:00 **Navigating Towards Net Zero: A Holistic Approach to Greenhouse Gas Emissions Management in Drilling Operations**
Divya Nair Gopalan, SLB

Generalized Well Design for GRE Tubulars in Casing and Protective Barrier Applications / GRE-GEO Workshop
Ferid Seyidov, Vulcan Energy Engineering GmbH

14:00 - 14:30 **Investigations of the Bit Wear on the Excitation of High-Frequency Torsional Oscillations**
Felix Mueller, Baker Hughes

(Radioactive) scale modelling - A comparison of steel and GRE based geothermal wells - GRE-GEO Workshop *Stefan van der Sar, Nuclear Research and Consultancy Group (NRG)*

14:30 - 15:00 Coffee Break & Networking

Wednesday, 18th September

Großer Saal - Session 11
Drilling Technology

Celler Saal - Session 12
Well Integrity / Composite Materials

15:00 - 15:30 **Parallel drilling and intersecting two wells using Active Magnetic Ranging (AMR)**
Aleksandr Vetsak, Eavor

Enhanced Design Envelope for Glass Reinforced Epoxy composite Tubulars in Downhole Applications / GRE-GEO Workshop
Leo de Mul, Dynaflo Research Group / Kees Rookus, Future Pipe Industries

15:30 - 16:00 **Multi-lateral Technologies in Closed-Loop Geothermal Systems**
Eddy Arida, Eavor

Bridging the Gap: Innovating GRE Tubular Qualification for Downhole Applications / GRE-GEO Workshop
Javier Holzmann, TU Clausthal / Kees Rookus, Future Pipe Industries

16:00 End of Conference

Gold Sponsor

Baker Hughes 



Silver Sponsor

Archer



Huisman



MB Well Services



Sponsor



GeoEnergy Celle e.V. - Hannoversche Str. 30a - 29221 Celle

Information & Registration
www.celle-drilling.com