

Conference Program

Tuesday, 16th September

11:30 - 13:15 Registration

Welcome & Keynotes

Grosser Saal

13:15 - 13:30 Welcome

13:30 - 14:00 **TRANSSEO - Transforming abandoned wells for geothermal energy production**
Hannes Hofmann (GFZ Helmholtz Centre for Geosciences)

14:00 - 14:30 **From Automation to Autonomy: A Drilling Perspective**
Eric Cayeux (NORCE)

14:30 - 15:00 Coffee Break & Networking

Session 1 - Chair: Gunter Brenner

“Drilling Technology and Optimization”

Grosser Saal

Session 2 - Chair: Sebastian Jung

“Data, Modeling, Validation and Simulation”

Celler Saal

15:00 - 15:30 **Percussive and Shearing Drilling Techniques in Crystalline and Hard Rock Formations**
Jörg Lehr, Laurent Gerbaud et. al.
(Clausthal University of Technology, Mines Paris-PSL)

Observer design for active damping of torsional vibrations
Daniel Alexander Piontek
(Clausthal University of Technology)

15:30 - 16:00 **Role of IoT in Optimizing Operations in Oil and Gas Sector: A Review**
Dheeraj Kapoor (Halliburton)

Prediction of operational limits regarding bit and BHA configurations considering High-Frequency Torsional Oscillations
Felix Arlt (Baker Hughes)

16:00 - 16:30 **New Surface Technology to Enhance Performance and Safety in Slot Recovery Milling Operations**
Craig Martin (Archer)

Concept for an Open Source Drilling Simulator with focus on education and research
Patrick Höhn (Georg-August-Universität Göttingen)

16:30 - 17:00 Coffee Break & Networking

Session 3 - Chair: Reiner Homrighausen

“Well Integrity and Completion”

Grosser Saal

Session 4 - Chair: Gerald Heisig

“Modeling, Simulation and Drilling Operation”

Celler Saal

17:00 - 17:30 **Successfull Restoration of a Barrier in a Geothermal Well**
Craig Martin (Archer)

Investigating Cutting Transport Dynamics in Drilling Operations Using an Innovative Flow Loop
Mohamad Javad Moghadasi
(Clausthal University of Technology)

17:30 - 18:00 **Importance of Well Integrity logging in P&A Operations**
Maciej Pawlowski (Weatherford)

Managed Pressure Drilling Benefits to Geothermal and Oil & Gas Drilling Operations
Sergio Borges
(Beyond Energy Services & Technology Corp)

18:00 - 19:00 Networking

19:00 Conference Evening

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Session 5 - Chair: Philip Jaeger "Drilling Applications and Case Studies" Grosser Saal		Session 6 - Chair: Matthias Reich "Drilling Process Optimization and Drilling Automation" Celler Saal	
09:00 - 09:30	Geretsried Project Update and Technology Validation Alex Vetsak (Eavor)		Numerical Study of Cuttings Transport in Horizontal Wells Using Impulse-Based Method and Signed Distance Fields Hozan Ibrahim (Clausthal University of Technology)
09:30 - 10:00	Weight Monitoring System for Tubing Strings measurement results after 3 years in use on the Storg K 202 cavern Stephan Grosswig, Carsten Braun (EXaL Technology)		Driving Cost-Efficient MPD: Insights from the Evolution of RCD Technology in Complex Drilling Environments Marcos Chavarria (Beyond Energy Services & Technology)
10:00 - 10:30	From Theory to Practice: Rotary Continuous Surveying Case Studies and Key Takeaways Christian Hansen (Baker Hughes)		Investigating New Methods of Downhole Data Transmission and Its Application Across Accessing Geo-Energy Related Natural Resources Gustavo Henrique Romeu da Silva (São Paulo State University)
10:30 - 11:00	Coffee Break & Networking		
Session 7 - Chair: Andreas Ruch "Drilling Applications and Case Studies" Grosser Saal		Session 8 - Chair: Carsten Freyer "Drilling Process Optimization and Drilling Automation" Celler Saal	
11:00 - 11:30	Reactive Material for Enhancing P&A Applications: Fluid Development, Yard Testing and Field Trial Nils Lummer (Fangmann Energy Services GmbH & Co. KG)		Integrated Visual Analytics of RSS Drilling Data: Leveraging Automated Insights to Drive Operational Efficiency Rob Brock (Scientific Drilling International)
11:30 - 12:00	Evolving the Ridge Diamond Element: Development and Field Validation of a New Multi-Ridge Three-Dimensional Cutter Xiaoge Gan (SLB)		High speed mud pulse telemetry system for versatile operating scenarios including wellbore strengthening and high temperature applications Ole Ohlendorf (Baker Hughes)
12:00 - 12:30	Performance Drilling in Polling Julio Kemenyfy (KEMCO GmbH)		Practical Recommendations to Improve Drilling Hydraulic Modelling Accuracy to Match Simulated and Measured ECD Values During Drilling of Long Lateral and Extended Reach Wells Sergio Borges (Beyond Energy Services & Technology Corp)
12:30 - 13:30	Lunch Break & Networking		

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Session 9 - Chair: Reiner Homrighausen "Drilling Equipment" Grosser Saal		Session 10 - Chair: Erik Feldmann "Geothermal Energy" Celler Saal	
13:30 - 14:00	The biggest built Drilling Innovation Tower (1630 mt capacity) needs to have a new „home“ Arthur de Mul (Huisman Equipment B.V.)	Integrative concept of medium depth closed loop geothermal systems based on the thermosyphon principle Carlos Paz, Charalampos Soilemezidis, Kanaan Al Maasarani, Qiaoleiyue Wang, Gunther Brenner, Janine Teelen, Lars Kühl, Philip Jaeger (Clausthal University of Technology)	
14:00 - 14:30	Mobile Rigs Reducing CO ₂ Footprint George Capatina (Max Streicher)	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)	
14:30 - 15:00	Next generation land drilling rigs further reducing wellbore construction costs – in Latin America and geothermal drilling in Europe alike Ulrich Hahne (Herrenknecht)	Novel Drilling Fluid for Geothermal Wells Johann Plank (TUM)	
15:15 - 16:45	Visit of Baker Hughes BETA Test Rig in Ahnsbeck (Registration required)		

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