## Tuesday, 12th September

	Grosser Saal		
11.20 12.15			
11:30 - 13:15	Registration		
13:15 - 13:30	Welcome		
13:30 - 14:00	Keynote Talk		
	Drilling Technology for Super Hot Geothermal Wells	hardenies NOV	
14.00 14.00	Stephen Pink, Vice President Subsurface Energy Technologies, NOV		
14:00 - 14:30	Keynote Talk		
	Moving geothermal projects from design to commerce		
14:30 - 15:00	Ajit Menon, Vice President of Geothermal, Baker Hughes  Coffee Break & Networking		
14.30 - 15.00			
	Grosser Saal: Session 1	Celler Saal: Session 2	
	"Drilling Technology"	"Hard Rock Drilling"	
15:00 - 15:30	Directional Drilling Challenges in delivering	Development and final testing of a hydraulic,	
	Advanced Geothermal Wells	drill mud compatible DTH percussion hammer for	
	Ross Lowdon (SLB)	deep, hard rock drilling applications	
	\-\frac{1}{2}	Volker Wittig (Fraunhofer IEG)	
15:30 - 16:00	Analysis of the Interaction Between	The TU Clausthal Mud Hammer Project –	
	High-Frequency Torsional Oscillations and	Current Development Status	
	Bit-Whirl in Drilling Systems	Michel Bannenberg	
	Kai Glowatzki (Baker Hughes)	(Clausthal University of Technology)	
16:00 - 16:30	Coffee Break & Networking		
	Grosser Saal: Session 3	Celler Saal: Session 4	
	"Drilling Technology"	"Hard Rock Drilling / Modelling"	
16:30 - 17:00	Development and analysis of a scalable and	The GeoVolve Hammer -	
	universally applicable concept for decentralized	Percussion-Enhanced Drilling Technology	
	control using the example of a miniaturized	Edward Kerr (HydroVolve)	
	drilling rig		
	Charalampos Soilemezidis		
17:00 - 17:30	(Clausthal University of Technology)		
17.00 - 17.30	Radial Drilling Technology for Production	Novel concepts to construct cost effective	
	Optimization Hamad Almebayedh (Kuwait Oil Company)	geothermal wells with Electro Pulse Power Technology	
	Hamau Aimebayeun (Nuwaii Oli Company)	Erik Neumann (Technische Universität Dresden)	
17:30 - 18:00	Innovative wellbore connectivity enhancement	Modelling of the dynamics of a drill string using	
10.00	technologies in deep geothermal type reservoirs	measurements from a full scale testing facility	
	Berker Polat (Fraunhofer IEG)	Patrick Höhn (Clausthal University of Technology)	
		( 5 5	
10.00 10.00	Networking		
18:00 - 19:00	INCLWOINING		
18:00 - 19:00 19:00	Conference Evening		

## Wednesday, 13th September

vvcdnesday	y, 13 <sup>th</sup> September	
	Grosser Saal: Session 5 "Digital Drilling"	Celler Saal: Session 6 "Downhole Tool Innovations"
09:00 - 09:30	Reinforcement Learning-Based Drilling Trajectory Optimization for Automated Directional Drilling Ramez Abdalla (Clausthal University of Technology)	Wellbore Shape Characterization using Advanced LWD Ultrasonic Imaging Tools for Optimized Drilling and Completions Operations  Cory Langford (Scientific Drilling)
09:30 - 10:00	Realistic automated scenario drilling through implementation and validation of physical and machine learning models using a real-time drilling simulator Harits Alkatiri (Clausthal University of Technology)	Cementitious Swell Packer, development and testing a new well integrity solution  Euan Murdoch (Aramco Overseas)
10:00 - 10:30	Drilling into the Future: A Collaborative and Adaptable Platform for Stochastic Estimation Daria Krasova (AGR Software)	Avoiding High Local Doglegs by Integrating the Drill Bit Into the Rotary Steerable System Matthias Hahn (Baker Hughes)
10:30 - 11:00	Coffee Break, Networking & ePosters	
ePoster	Project-specific improvement of insurance covers for drilling risks:  Construction All Risk - Lost in Hole - Liability Achim Fischer-Erdsiek (NW Assekuranz)	
	Großer Saal: Session 7 "Heat and Mass Transfer"	Celler Saal: Session 8 "Geothermal Drilling Technology"
11:00 - 11:30	Modeling of heat and mass transfer in geothermal systems for energy storage and extraction  Shahab Mohammadi  (Clausthal University of Technology)	How can Middle Deep Geothermal Wells (600 m - 2500 m) be drilled in half the time? Arthur De Mull (Huisman)
11:30 - 12:00	Simulation of cuttings transport in horizontal wells using high resolution numerical methods  Hozan Ibrahim (Clausthal University of Technology)	Enabling (drilling) technology maturation for the energy transition: case studies  Vedran Zikovic (TNO)
12:00 - 12:30	Simulation of Cuttings Transport While Vertical Drilling Yaroslav Ignatenko (Baker Hughes)	Integration Of Advanced Engineering & Drilling Techniques For Efficient Sidetracking Through Challenging Well Conditions Mehdi Pourtangestani (SLB)
12:30 - 13:30	Lunch Break, Networking & ePosters	
ePoster	Analysis of distributed temperature and acoustic data to assess cementing of a surface casing in a geothermal well. Berker Polat (Fraunhofer IEG)  Großer Saal: Session 9  Celler Saal: Session 10	
	"Geothermal Technology"	"Instrumentation Technology"
13:30 - 14:00	Specially Customized Systems for Cementing Geothermal Wells Nils Lummer (Fangmann Energy Services)	Development of a novel Tool Joint with sensors and data transfer capability for enhanced geothermal drilling - Design and first experimental evaluation Andrea Bufalini (Rina Consulting)
14:00 - 14:30	Geothermal energy in a closed system with underground heat exchanger - Case Study Geretsried  Daniel Mölk (Eavor)	Reliable Leak Detection using Acoustic Noise Toll and Basic Cased Hole Logging Maciej Kozlowski (Halliburton)
15:00	Visit of Drilling Simulator Celle - Research Institute Please register for participation at Celle Drilling Registration	n Counter