

# Congress program

Thursday, 29. February 2024

**GeoTHERM**  
expo & congress

Deep geothermal energy - Baden Arena  
Congress 1 sponsored by Schlumberger



10:10 a.m.	<b>Words of Welcome</b> Prof. Dr. Detlev Doherr	2:00 p.m.	<b>Sustainable and Cost-Effective Storage Solutions for Europe from Mechanical and Geothermal Energy Technologies</b> Dr. Jeanette Hagan – ZeroGeo Energy
10:15 a.m.	<b>Opening Session</b> Mayor of the city of Offenburg Marco Steffens	2:20 p.m.	<b>Research, Development and Deployment Advancing Deep Geothermal Energy Utilisation and Geothermal Technology, an Update from the International Energy Agency Geothermal Technology Collaboration Programme</b> Samantha Alcaraz – IEA Geothermal
10:20 a.m.	<b>Keynote</b> State Secretary Dr. Andre Baumann - Ministry for the Environment, Climate Protection and the Energy Sector Baden-Württemberg	2:50 p.m.	<b>Seismic monitoring network evaluation using an interferometry derived velocity model</b> Leo Eisner – Seismik
10:30 a.m.	<b>Keynote</b> <b>Harnessing Heat Beneath our Feet: Unlocking the potential of Geothermal in Scotland</b> Steve Taylor - Scottish Renewable Energy Advisor – Germany Scottish Development International - Energy Transition	3:10 p.m.	<b>Urban Vibroseis Truck - Development and validation of a new innovative mobile vibrator for use in reflection seismics</b> Daniel Jaskulski – Herrenknecht AG
11:00 a.m.	<b>Advanced Heat-In-Place-Estimation for the deep geothermal potential atlas in the federal state of Baden-Württemberg, SW-Germany</b> Ernst Kiefer & Konstantin Kuhn – Landesforschungszentrum Geothermie am KIT	3:30 p.m.	<b>A world's first geosteering application in Geothermal</b> Janine Maalouf – SLB
11:20 a.m.	<b>Development of geothermal energy in areas with low transmissivity and/or in areas with a high density of operations. Well architectures to maximise heat extraction</b> Pierre Ungemach – GPC IP & Geofluid	4:00 p.m.	<b>The frequently ignored element to avoid failures in deep geothermal projects</b> Detlef Klaus – WellPerform
11:50 a.m.	<b>DEEP GEOTHERMAL IN THE UK: HISTORY AND FUTURE PROSPECTS</b> Andrew Sloan – Mariott Drilling	4:20 p.m.	<b>Monitoring geothermal wells: from HT directional, pressure and temperature while drilling to advanced casing integrity services</b> Davide Di Tommaso & Maciej Pawlowski – Weatherford
1:40 p.m.	<b>Geothermal energy and lithium extraction: when renewable energy and sustainable raw material production go hand in hand</b> Dr. Horst Kreuter – Vulcan Energie Ressourcen GmbH	4:40 p.m.	<b>Wellhead Design Optimizations – Forecast based on Current Projects</b> Sven Alex & Martin Bakoš – Hartmann Valves GmbH

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5:00 p.m.

New Advances in High Temperature  
Electronics and Sensors for Geothermal  
Drilling

John Clegg – HEPHAE

# Congress program

Thursday, 29. February 2024

**GeoTHERM**  
expo & congress

Shallow geothermal energy - Baden Arena  
Congress 2 sponsored by OSSO



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| 11:00 a.m. | <b>More safety through shallow geothermal energy</b><br>Lars Staudacher & Georg Mederl – ZAE Bayern e.V.  | 3:30 p.m. | <b>Experiences with the Enhanced Thermal Response Test (ETRT) under groundwater influence</b><br>Anna Albers – Karlsruher Institut für Technologie (KIT)  |
| 11:20 a.m. | <b>Potential of near-surface geothermal energy for the decarbonisation of existing heating networks</b><br>Dr. David Kuntz – GeoAlto GmbH   | 4:00 p.m. | <b>Autonomous drilling robot - Novel drilling method for shallow geothermal energy</b><br>Dr.-Ing. Hans-Jörg Dennig – ZHAW Zurich University of Applied Sciences Institute of Product Development and Production Technologies IPP |
| 11:50 a.m. | <b>The contribution of near-surface geothermal energy to emission-free energy supply in industry and commerce</b><br>Prof. Dr. Lars Kühl – Ostfalia Hochschule Wolfenbüttel                           | 4:20 p.m. | <b>Digital Twin for Geothermal Assets Assisting the Production and Operational Decisions</b><br>Pejman Shoeibi Omrani – TNO   |
| 1:40 p.m.  | <b>Heat Planning Act, Acceleration of Permitting and Amendment to Mining Law - the Current Status</b><br>Dr. Georg Buchholz – [Gaßner, Groth, Siederer & Coll.], Partnerschaft von Rechtsanwälten mbB | 4:40 p.m. | <b>MALEG - Machine learning to improve the efficiency of geothermal energy utilisation</b><br>Fabian Nitschke – Karlsruher Institut für Technologie (KIT)   |
| 2:00 p.m.  | <b>Thermal aquifer storage - potentials and barriers in Germany</b><br>Ruben Stemmler – Karlsruher Institut für Technologie (KIT)   | 5:00 p.m. | <b>Applying Coating Technologies from Oil and Gas to Advance Geothermal Drilling</b><br>Michael Adams – NOV   |
| 2:20 p.m.  | <b>Optimisation of near-surface geothermal plants - regeneration of the subsurface in combination with the heat source air</b><br>Kathrin Singer – tewag GmbH   |           |   |
| 2:50 p.m.  | <b>The fully renewable heat supply for existing buildings with near-surface geothermal energy</b><br>Volkmar Frotscher – GeoCollect GmbH  |           |   |
| 3:10 p.m.  | <b>GeotIS - Information system for deep, medium-depth and shallow geothermal energy</b><br>Dr. Thorsten Agemar – Leibniz-Institut für Angewandte Geophysik  |           |   |