

# Third European Geothermal Review

## Geothermal Energy for Electrical Power Production



**Congress Program – Tagungsprogramm**

**June 24 – 26, 2013**

**FAVORITE Parkhotel**  
City of Mainz, Rhineland-Palatinate  
**Germany**

## Opening Statements

09:00 - 09:10	<b>Jörg BAUMGÄRTNER</b> BESTEC GmbH, Germany	<b>Welcome, Background and Motivation for the Third European Geothermal Review</b>
09:10 - 09:30	<b>Jörg BAUMGÄRTNER &amp; Roy BARIA</b> BESTEC GmbH, Germany MIL-TECH UK, UK	<b>Desert Peak EGS Project (a project by ORMAT Nevada, Inc. supported by the U. S. Department of Energy)</b>
09:30 - 10:00	<b>Mike MONGILLO &amp; Adrian LARKING</b> International Energy Agency – Geothermal Implementing Agreement (IEA GIA)	<b>The International Energy Agency – Geothermal Implementing Agreement: Activities to Encourage Sustainable, Cost-effective, Global EGS Deployment</b>

## Public Relations and Communication

*Chairman: Jörg Baumgärtner*

10:00 - 10:30	<b>Elke SPAETH</b> PFALZWERKE AKTIENGESELLSCHAFT, Germany	<b>Participation – new challenges for companies</b> (Partizipation – neue Herausforderungen für Unternehmen)
10:30 - 11:00	<b>Andreas TSCHAUDER</b> Ministry for Economic Affairs, Climate Protection, Energy and Regional Planning, State of Rhineland-Palatinate, Germany	<b>Mediation Process “Deep Geothermal South Palatinate” – Results and Chances</b> (Mediationsverfahren “Tiefe Geothermie Vorderpfalz” – Ergebnisse und Chancen)
11:00 - 11:30	<i>Coffee Break</i>	
11:30 - 11:50	<b>Peter MEIER</b> Geo-Energie Suisse AG, Switzerland	<b>EGS projects in Switzerland: Communication and permitting procedure (EGS-Projekte in der Schweiz: Kommunikation und Bewilligungsverfahren)</b>
11:50 - 12:10	<b>Albert GENTER</b> GEIE “Exploitation Minière de la Chaleur”, France	<b>The first acceptability study of an EGS plant in northern Alsace: the Soultz-sous-Forêts case study</b>
12:10 - 12:30	<b>Marcus BRIAN</b> ENERCHANGE GbR, Germany	<b>How to communicate a risk technology? Results from a research project on public relations for deep geothermal. (Wie kommuniziert man eine Risikotechnologie? Erkenntnisse aus einem Forschungsprojekt zur Öffentlichkeitsarbeit in der tiefen Geothermie.)</b>
12:30 - 12:50	<b>Lutz TORBOHM</b> AIG Europe Limited, Germany	<b>Deep geothermal projects from a liability insurer’s point of view – Are mining related damages an insurable risk? Solution possibilities – Requirements, Elements, Scope (Tiefengeothermie-Projekte aus Sicht eines Haftpflichtversicherers – Bergschäden ein unversicherbares Risiko? Lösungsmöglichkeiten – Voraussetzungen, Elemente, Umfang)</b>

12:50 - 13:10	Matthias KLIESCH Marsh GmbH, Germany	Experience Report of a technical insurance broker on the insurances of deep geothermal projects (Erfahrungsbericht zur Versicherung von tiefen Geothermieprojekten aus der Perspektive des Technischen Versicherungsmaklers)
13:10 - 14:20	<i>Lunch Break</i>	
<b>Projects</b>		<i>Chairman: Thomas Kölbl</i>
14:20 - 14:40	Christian PLETL Stadtwerke München (SWM), Germany	Geothermal Power Plant Sauerlach: Planning, construction and commissioning (Geothermie-Anlage Sauerlach: Planung, Bau und Inbetriebnahme des Heizkraftwerks)
14:40 - 15:00	Jörg BAUMGÄRTNER BESTEC GmbH, Germany	Geothermal 2.0: The Insheim Geothermal Power Plant. The second generation of geothermal power plants in the Upper Rhine Graben.
15:00 - 15:20	Guerric VILLADANGOS Groupe ES - Electricité de Strasbourg, France	ECOGI – EGS Upper Rhine Geothermal project for the industry – 1st well and result
15:20 - 15:40	Ulrich LOTZ GeoEnergy GmbH, Germany	Geothermal Project Brühl – specific challenges for geothermal projects in Baden-Württemberg (Geothermieprojekt Brühl – spezielle Herausforderungen an Geothermieprojekte in Baden-Württemberg)
15:40 - 16:10	<i>Coffee Break</i>	
16:10 - 16:30	Eva SCHILL GEIE "Exploitation Minière de la Chaleur", France	EGS geothermal challenges within the Upper Rhine Valley based on the Soultz experience
16:30 - 16:50	Yoonho SONG Korean Institute of Geoscience and Mineral Resources (KIGAM), Korea	The Korean EGS pilot project: its progress and prospect
16:50 - 17:10	Adrian LARKING Greenrock Energy Limited, Australia	Update on Geothermal Activities in Australia
17:10 - 17:30	Tony BENNETT EGS Energy Limited, UK	A Geological Overview of the Proposed Target Zone for the Eden Deep Geothermal Plant
19:00 - open end	<i>Get-Together in the FAVORITE parkhotel</i>	

## Power Production

Chairman: Albert Genter

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| 08:30 - 08:50 | Thomas KÖLBEL<br>EnBW AG, Germany                                      | <b>R</b> ecent results from the geothermal power plant Bruchsal  |
| 08:50 - 09:10 | Thomas HETTKAMP<br>BESTEC Services GmbH, Germany                       | <b>E</b> xperiences from 5 years operation in Landau   |
| 09:10 - 09:30 | Julia SCHEIBER<br>GEIE "Exploitation Minière de la Chaleur",<br>France | <b>S</b> caling with Upper Rhine valley fluid: main issues at Soultz in the geothermal installation and in the wells   |
| 09:30 - 09:50 | Sven G. GÄRTNER<br>Brenk Systemplanung GmbH, Germany                   | <b>T</b> echnical enriched naturally occurring radioactive material in Geothermal (TENORM in der Geothermie)   |
| 09:50 - 10:10 | Andrea SEIBT<br>BWG Geochemische Beratung GbR,<br>Germany              | <b>O</b> n-site experience with anti-scaling inhibitors during geothermal exploitation within the Upper Rhine valley projects  |
| 10:10 - 10:30 | Nicolas CUENOT<br>GEIE "Exploitation Minière de la Chaleur",<br>France | <b>R</b> adioprotection investigations during geothermal exploitation with Upper Rhine Valley fluid: power plant mapping and recommendations for future geothermal sites |
| 10:30 - 11:00 | <i>Coffee Break</i>  |  |

## Advanced Technologies

Chairman: Roy Baria

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|------------------|--|---|
| 11:00 - 11:20    | Maarten VAN CLEEF<br>ElectraTherm Inc., USA  | <b>G</b> enerating Renewable Energy from Small-Scale Geothermal / Co-Produced Fluids  |
| 11:20 - 11:40    | Guillaume RAVIER<br>ES Géothermie, France  | <b>O</b> perate a line shaft pump in a slim-hole with highly aggressive geothermal conditions: new results from the LSP at Soultz |
| 11:40 - 12:10    | Jack A. FROST<br>Frost Consulting Group, USA                                       | <b>D</b> ownhole Lineshaft Pumps & Landau Case Study  |
| 12:15 - 13:30    | <i>Lunch Break</i>   |   |
| 13:45 - open end | <i>Field Trip to the Insheim Geothermal Power Plant<br/>&amp; Surprise Dinner!</i> |   |

### New Concepts

Chairman: Adrian Larking

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|---------------|--|---|
| 09:00 - 09:20 | <b>Hiroshi ASANUMA</b><br>National Institute of Advanced Industrial Science and Technology (AIST), Japan | <b>Outline of Japan Beyond-Brittle Project (JBBP) for Development of EGS Reservoirs in Ductile Zones</b>        |
| 09:20 - 09:40 | <b>Matthias WELLBRINK</b><br>Federal Institute for Geosciences and Natural Resources (BGR), Germany      | <b>The application of the multfrac concept in horizontal wells for deep geothermal energy. A concept study.</b> |
| 09:40 - 10:00 | <b>Reinhard JUNG</b><br>JUNG-GEOTHERM, Germany   | <b>Wing-cracks – the key for understanding the stimulation process in fractured rock</b>                        |

### Induced Seismicity

Chairman: Horst Rüter

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|---------------|--|--|
| 10:00 - 10:20 | <b>Roy BARIA</b><br>EGS Energy Limited, UK   | <b>Concern regarding induced seismicity: observations and possible ways forward</b>  |
| 10:20 - 10:40 | <b>Hiroshi ASANUMA</b><br>National Institute of Advanced Industrial Science and Technology (AIST), Japan | <b>Characteristics of seismicity from hydrothermal reservoir at Yanaizu-nishiyama, Japan</b>   |
| 10:40 - 11:10 | <i>Coffee Break</i>  |  |
| 11:10 - 11:30 | <b>Nicolas CUENOT</b><br>GEIE "Exploitation Minière de la Chaleur", France                               | <b>How to minimize seismic activity during geothermal exploitation? The Soultz experience.</b>   |
| 11:30 - 11:50 | <b>Ralf FRITSCHEN</b><br>DMT GmbH & Co. KG, Germany  | <b>Measurement and assessment of induced seismicity in Landau and Insheim with the German standard DIN 4150 (Messung und Beurteilung induzierter Seismizität nach DIN 4150 für Landau und Insheim)</b> |
| 11:50 - 12:10 | <b>Manfred JOSWIG</b><br>University of Stuttgart, Germany  | <b>Monitoring induced seismicity from geothermal and gas production in Germany</b>   |
| 12:10 - 12:30 | <b>Andrew JUPE</b><br>altcom limited, UK   | <b>EGS subsurface seismic hazard assessment</b>  |
| 12:30 - 12:50 | <b>Delano LANDTWING</b><br>ETH Zürich, Swiss Seismological Service, Switzerland                          | <b>Induced Seismicity: Towards Real-Time Probabilistic Seismic Risk Assessment – Case study for Basel 2006 and associated uncertainties</b>  |

### Closing Remarks

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|---------------|---|------------------------|
| 12:50 - 13:20 | <b>Jörg BAUMGÄRTNER</b><br>BESTEC GmbH, Germany | <b>Closing Remarks</b> |
| 13:20 - 14:30 | <i>Lunch Break &amp; END</i>                    |                        |



Till Eulenspiegel



## Third European Geothermal Review...

...kindly supported by:



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and Nuclear Safety