

EAGE

EUROPEAN
ASSOCIATION OF
GEOLOGISTS &
ENGINEERS



First EAGE/IGA/DGMK Joint Workshop on Deep Geothermal Energy

8-9 NOVEMBER 2018 • STRASBOURG, FRANCE

- **Programme**

WWW.EAGE.ORG

OVERVIEW

EAGE recognizes the opportunities presented by the energy transition, particularly in the areas of geothermal energy, geochemistry and sustainability. The Association is committed to supporting members by providing a platform for industry and academia to meet and share insights and knowledge that link across multiple geoscientific disciplines. EAGE will offer together with IGA and DGMK, a joint Workshop on Deep Geothermal Energy.

The workshop aims to cover the entire deep geothermal energy exploration, production and utilization value chain. Specialists in the field will talk about the use of all tools (available and emerging) to optimize geothermal production strategies.

SESSIONS

This workshop, which is composed of oral presentations is divided into the following sessions:

- Opening Session
- Case Studies I
- Poster Session
- New Approaches, Drilling and Risks
- Case Studies II

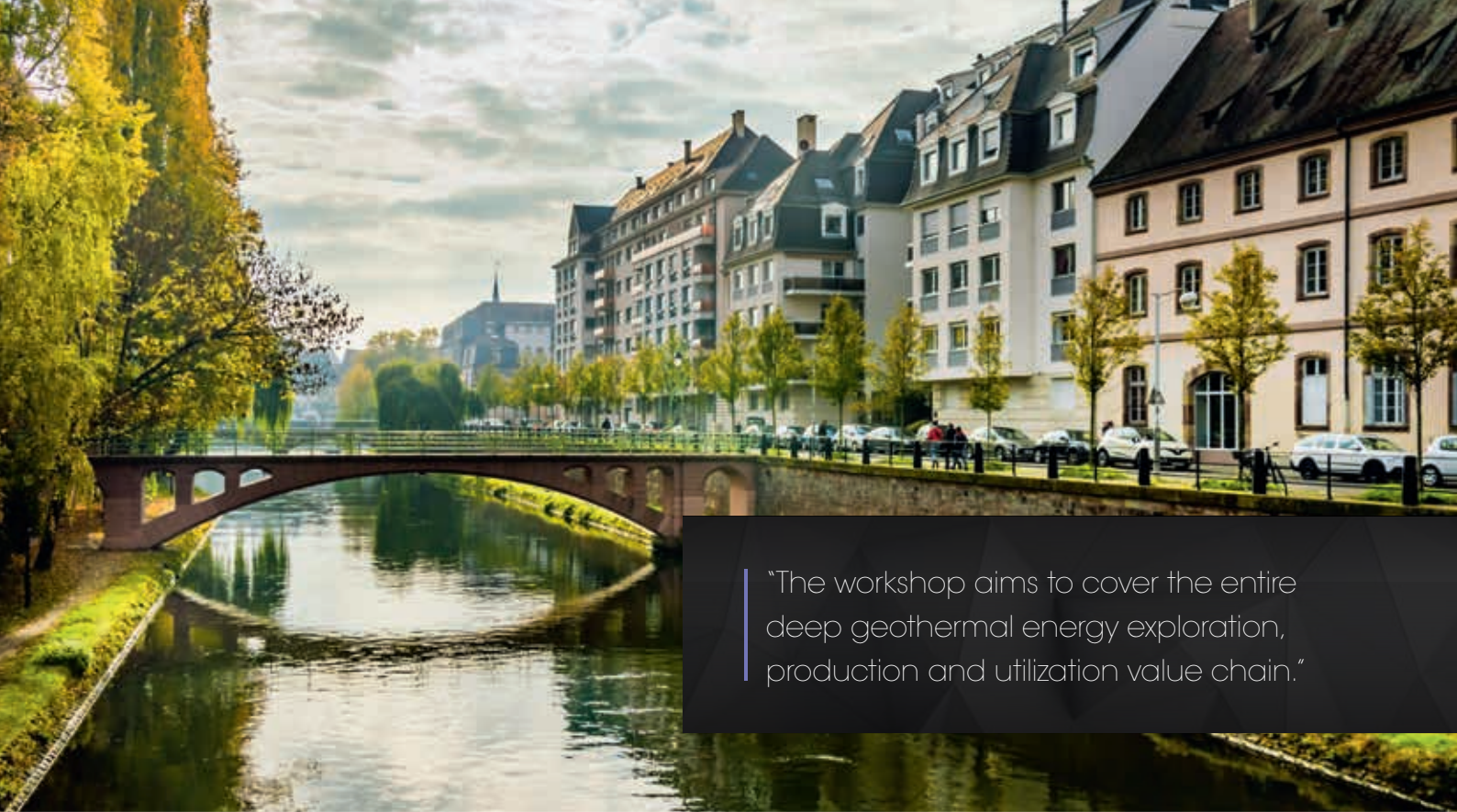
TECHNICAL PROGRAMME

Oral Presentations | Thursday 8 November

CONFERENCE ROOM	
Opening Session	
08:15	Registrations
08:45	Welcome, HSE & Opening
09:00	DGE KN01 - High-resolution Seismic Processing, Imaging and Diffraction Imaging - Indispensable Tools for Geothermal Exploration - T.J. Moser ¹ ¹ Moser Geophysical Services
09:30	DGE KN02 - An Innovative Geothermal Well Architecture and Reservoir Evaluation Concept - the Cachan Subhorizontal Doublet - P. Ungemach ^{1*} , M. Antics ¹ , M. Davaux ² ¹ GPC IP, ² GEOFLUID
10:00	Coffee Break
Case Studies I	
10:30	DGE 01 - Multi-physics Imaging of a High Enthalpy Geothermal Field: the Darajat Case - W. Soyer ¹ , R. Mackie ¹ , A. Pavesi ¹ , S. Hallinan ^{1*} , F. Miorelli ¹ ¹ CGG
10:50	DGE 02 - Integrated Geophysical and Geological Workflow for Geothermal Exploration in Turkey - F. Ceci ^{1*} ¹ Schlumberger
11:10	DGE 03 - 3D Seismic High Productivity Application for Geothermal Development - Case Study in Suburban Environment (Munich Germany) - E. Gillot ^{1*} , C. Gomez ¹ , J. Cotton ¹ ¹ CGG Services SAS
11:30	DGE 04 - Overview of Technologies for Downhole Seismic for Geothermal Industry - F. Percher ^{1*} , O. Valishin ¹ ¹ Sercel

Poster Session

11:50	DGE P01 - Experience Sharing Between the Petroleum and Geothermal Industry: a Service Company's Perspective - G. Sosio ^{1*} , B. Schrier ¹ , D. Thiolet ¹ , L. Masnaghetti ¹ , C. Cavalleri ¹ , J. de Reede ¹ ¹ Schlumberger
	DGE P02 - Geothermal Gradients on Svalbard, Arctic Norway - P. Betlem ^{1*} , K. Midttømme ² , M. Jochmann ¹ , K. Senger ¹ , S. Olaussen ¹ ¹ The University Centre in Svalbard (UNIS), ² Christian Michelsen Research AS (CMR)
	DGE P03 - Horizontal Stress Orientation and Fractures from Image Logs in Geothermal Boreholes in Fractured Carbonates in Switzerland - B. Roters ^{1*} , M. Gysi ² ¹ NiMBUC Geoscience OG, ² National Cooperative for the Disposal of Radioactive Waste (NAGRA)
	DGE P04 - Hydrocarbon-Geothermal Co-production: Worldwide Scale Status and Evaluation of the Techno-economic Potential in Serbia - E. Jeandel ¹ , M. Mecheri ² , D. Rettenmaier ^{1*} ¹ EDF R&D/EIFER, ² EDF R&D
	DGE P05 - Inhibitor Influence on Corrosion of Carbon Steel with Respect to the Upper Rhine Graben Geothermal Brines - P. Huttenloch ^{1*} , R. Zorn ¹ , L. Makni ¹ , H. Steger ² , F. Schilling ² , D. Rettenmaier ¹ ¹ European Institute for Energy Research, ² Institut für Angewandte Geowissenschaften/KIT
12:45	Lunch Break
New Approaches, Drilling and Risks	
13:30	DGE 05 - Mud Hammer Drilling in Hard Formations: Bit Design Improvement Leads to Increased Rate of Penetration - L. Gerbaud ^{1*} , R. Souchal ² , M. Tarek ² ¹ Mines ParisTech, PSL University, ² DrillStar
13:50	DGE 06 - Advances on Electro-magnetic Imaging for De-Risking Enhanced Geothermal Systems Prospects - M. Darnet ^{1*} , C. Dezayes ¹ , J. Girard ² , J. Baltassat ¹ , F. Bretaudeau ¹ , T. Reuschlé ² , N. Coppo ¹ , J. Porte ¹ , Y. Lucas ³ ¹ BRGM, ² EOST-IPGS, ³ EOST-LHyGeS
14:10	DGE 07 - Assessing the Potential of Abandoned Oil and Gas Wells for Geothermal Heat Recovery in France - C. Maurel ^{1*} , V. Hamm ¹ , F. Bugarel ¹ ¹ BRGM
14:30	DGE 08 - Induced Seismic and Aseismic Slip in EGS Reservoir: Case Studies from Alsace, France - J. Schmittbuhl ^{1*} , O. Lengliné ¹ , L. Cauchie ¹ , F. Cornet ¹ ¹ EOST - University of Strasbourg/CNRS, ² LabEx G-eau-thermie Profonde
14:50	DGE 09 - Seismic Monitoring at Different Stages of Deep Geothermal Sites in the Upper Rhine Graben - V. Maurer ^{1*} , A. Richard ¹ , N. Cuenot ¹ ¹ ES Geothermie
15:10	Coffee Break



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Case Studies II

15:40	DGE 10 - Wireline NMR Combined With Azimuthal Logs Define Flow Capacity and Homogeneity within High Angle Geothermal Well - C. Cavalleri ^{1*} , E. Wielemaker ¹ ¹ Schlumberger
16:00	DGE 11 - Integration of Wellbore Logs in a Multi-disciplinary Geothermal Site Model: the Case of Rittershoffen, France - G. Sosio ^{1*} , A. Mandiuc ¹ , A. Campana ¹ , R. Hehn ² , J. Vidal ² , C. Baujard ² ¹ Schlumberger, ² ES Géothermie
16:20	DGE 12 - From Numerical Conceptual Models to Phenomenological Modelling and Production Optimization for Better Assessing Geothermal Reservoir Potential - M. Garcia ^{1*} , J. Mathieu ¹ , D. Siffert ¹ , GEOTREF Team ² ¹ KIDOVA, ² GEOTREF
16:40	DGE 13 - Assessment of CO2 Plume Geothermal (CPG) Systems - S. Glos ¹ , M. Langer ¹ , M. Wechsung ^{1*} ¹ Siemens AG, Gas & Power
17:00	DGE 14 - Sultz and Rittershoffen Geothermal Plants in Upper Rhine Graben: Two Years of Operation - G. Ravier ^{1*} , O. Seibel ¹ , J. Mouchot ¹ ¹ ES-Géothermie
17:20	Discussion
17:45	End of Workshop

REGISTRATION

You can still register onsite. Please find below an overview with all registration fees.

REGISTERED AND PAID	Onsite
EAGE Member	€ 630
EAGE Student Member	€ 345
Non-Member	€ 725
Student Non-Member	€ 395

FIELD TRIP

Friday 9 November
9:00 - 14:00

On the 9th November all workshop participants will have the opportunity to visit the Sultz geothermal power plant and Rittershoffen geothermal heat plant on an organized field trip to the Northern Alsace (France). The Northern Alsace is a quite active area in terms of Deep Geothermal energy.

In this trip, many topics such as local geology, exploration methods, exploitation technology, induced seismicity and non-technical barriers (acceptability) will be discussed. For more information on this field trip, visit the event website via events.eage.org.

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CONTACT

The First EAGE/IGA/DGMK Joint Workshop on Deep Geothermal Energy is organized by the EAGE Europe Office. For enquiries please contact the EAGE Europe office at +31 889955055 or email eage.events@eage.org



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