

About the Autumn School:

The Autumn School addresses geoscientists and engineers alike who are interested in learning more about the use of deep geothermal energy. The different topics are presented in a 1-hour talk each, followed by 30 minutes of interaction. At the end of each day, participants will form groups, each presenting the most relevant information from one topic of the day in a 15 – 20 minute wrap-up talk. The wrap-up presentations will be part of the Autumn School handout, which will be given to each participant in the end.

The Autumn School is organized by the Geothermal-Alliance Bavaria (GAB) and co-funded by the Bavarian State Ministry for Science and Arts and the MSE Graduate Center of the Munich School of Engineering (MSE). The event is associated with the 6th European Geothermal Workshop (EGW). Participants are strongly encouraged to take part in both events.

Why focus on EGS?

Despite abundant resources, enhanced geothermal systems (EGS) are still not widely used on an industrial scale in Europe. Research activities in the field, however, combined with an ever-growing number of installed production sites worldwide, lead to significant technical advances in the recent years.

With growing knowledge arises the need for improved education measures in the field of EGS. It is the aim of the 1st GAB Autumn School on EGS to provide PhD students from the fields of geo- and engineering sciences with a strong interest in geothermal energy research with not only the most relevant technical knowledge, but also with a toolkit for risk assessment and communication in order to raise public acceptance of the technology.

About the Geothermal-Alliance Bavaria:

Funded by the Bavarian State Ministry for Science and Arts and coordinated by the MSE, three major universities in Bavaria joined forces in the Geothermal-Alliance Bavaria: The Technical University of Munich, the Friedrich-Alexander University Erlangen-Nuremberg and the University of Bayreuth. The aim of the project is to push research in the field of geothermal energy on a variety of scientific fields, such as geology, chemistry, thermal process engineering and electrical engineering with the ultimate goal of strengthening the use of deep geothermal energy as a domestic energy source.

Application:

Interested candidates are encouraged to send their CV and letter of motivation to

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Deadline for applications is September 10th 2018.

A maximum of 30 participants will be admitted to the Autumn School.

Participation fees:

The participation in the GAB Autumn School is free of charge; participants need to be aware of the fact that they have to provide for their own travel expenses. Students will be admitted to the 6th European Geothermal Workshop without any additional charges.

Location:

School and Observatory of Earth Sciences (EOST), University of Strasbourg, 5 Rue Rene Descartes, 67084 Strasbourg Cedex

Autumn School of the Geothermal-Alliance Bavaria

Focus on Enhanced Geothermal Systems

Strasbourg, 8th - 9th October 2018

in association with the

EGW 2018

Strasbourg, 10th - 11th October 2018



GAB Autumn School (8th - 9th October 2018)

Sunday, 7th October 2018

From 18:00 Icebreaker
Art'Café – Musée d'Art moderne de
Strasbourg

Monday, 8th October 2018

8:30 – 9:00 **Welcome Coffee & Registration**

9:00 – 9:30 **Introduction**
Katharina Aubele & Markus Loewer
Technical University of Munich,
Geothermal-Alliance Bavaria

9:30 – 11:00 **Exploration Strategies**
Wolfgang Bauer
University of Erlangen-Nuremberg

Coffee Break

11:15 – 12:45 **Crystalline Systems**
Thomas Kohl
Karlsruhe-Institute of Technology

Lunch

13:45 – 15:15 **Hydraulic Stimulation**
Francois Cornet
University of Strasbourg

15:15 – 16:45 **Geochemical Processes in
Geothermal Systems**
Simona Regenspurg
Helmholtz Centre Potsdam GFZ

Coffee Break

17:00 – 18:30 **Exercises / Wrap-Up**

Tuesday, 9th October 2018

8:30 – 9:00 **Welcome Coffee**

9:00 – 10:30 **Thermodynamic Processes**
Christoph Wieland
Technical University of Munich

10:30 – 12:00 **Monitoring of Geothermal Systems**
Jean Schmittbuhl
University of Strasbourg

Lunch

13:00 – 14:30 **A few current Aspects of Research
and Development in EGS**
Emmanuel Gaucher
Karlsruhe-Institute of Technology

14:30 – 16:00 **Risk Analysis and Communication**
Evelina Trutnevyte
University of Geneva

Coffee Break

16:15 – 17:45 **Exercises / Wrap-Up**

From 19:00 **Dinner**

Associated event

6th European Geothermal Workshop 2018 (EGW)

10th - 11th October 2018
Strasbourg

<http://labex-geothermie.unistra.fr/ru-brique274.html>

Excursion Day (12th October 2018)

Friday, 12th October 2018

Joint Field Trip to Geothermal Power Plants Soultz-sous-Forêts and Rittershoffen and to the French Oil Museum at Merckwiller-Pechelbronn.