

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 1.5 hour lecture including 30 minutes of interaction. At the end of day 1, participants will carry out exercises and present the most relevant information from one topic of the day in a short wrap-up talk. All participants must have a camera and acoustic equipment on their computer. It would be nice to see and hear each other.

The School is organized by the Geothermal-Alliance Bavaria and co-funded by the Bavarian State Ministry for Science and Arts and the Munich School of Engineering (MSE) Graduate Center. The event will take place as a Webinar using Zoom. It is associated with the 8th European Geothermal Workshop (EGW) which will on the following day. Participants are strongly encouraged to take part in both events.

Why focus on Applied Methods?

The focus will provide doctoral students and interested candidates with practical knowledge for research and work in the field of Deep Geothermal Energy. The school was hosted for the first time in 2018 at the University of Strasbourg and met with a great response. The follow-up event will now broaden the spectrum, to cover not only Enhanced Geothermal Systems (EGS), but also the production from deep hydrothermal aquifer systems. The city of Munich and surrounding area is particularly active in the application of hydrothermal systems and its applied research. The Bavarian Molasse Basin offers excellent conditions for the local energy supply. With its numerous geothermal plants, an international hotspot for deep geothermal energy has been developed in recent years. Accordingly, there are excellent virtual excursion destinations with direct practical relevance.

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

Dr. Markus Loewer
Technical University of Munich
Munich School of Engineering
Geothermal-Alliance Bavaria
Lichtenbergstr. 4a
85748 Garching
Mail: markus.loewer@tum.de

Deadline for applications is 28 September 2020.

A maximum of 20 participants will be admitted to the Autumn School.

Participation fees:

The participation in the GAB Autumn School is free of charge. Candidates will be admitted to the 8th European Geothermal Workshop with no additional charges.

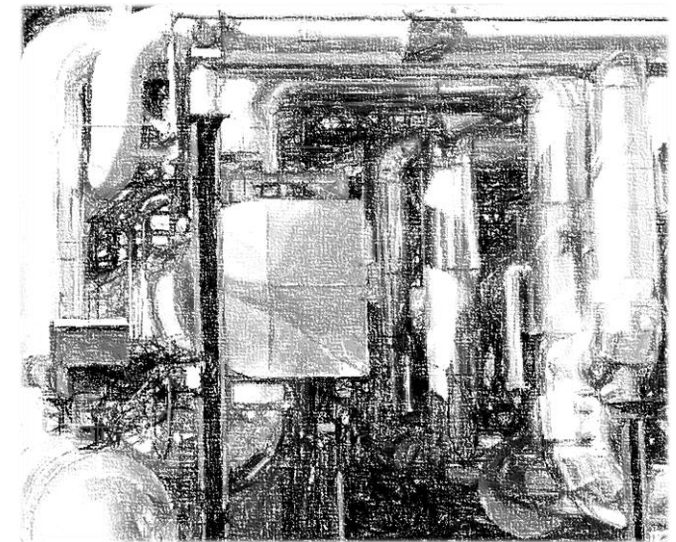
Location:

Online

Autumn School of the Geothermal-Alliance Bavaria

Focus on Applied Methods in Deep Geothermal Energy

Webinar, 5th - 6th October 2020



in association with the

EGW 2020

Webinar, 7th - 9th October 2020

GAB Autumn School (5th - 6th October 2020)

Monday, 5th October 2020

- 8:50 – 9:10 **Audio/ Video Checks**
- 9:10 – 9:20 **Welcome**
- 9:20 – 10:40 **Hydrothermal Energy Production**
Markus Loewer
Technical University of Munich
- Break
- 10:50 – 12:20 **Enhanced Geothermal Systems (EGS)**
Jean Schmittbuhl
University of Strasbourg
- Lunch Break
- 13:20 – 14:50 **Geomechanics & Drilling Risks**
Michael Drews
Technical University of Munich
- Virtual Coffee Break
- 15:00 – 16:30 **Efficient Energy Using Concepts**
Matthäus Irl
Technical University of Munich
- Break
- 16:40 – 18:00 **Exercises / Wrap-Up**

Tuesday, 6th October 2020

- 9:00 – 9:10 **Welcome**
- 9:10 – 10:40 **Seismic Monitoring Methods**
Emmanuel Gaucher
Karlsruhe-Institute of Technology
- Break
- 10:40 – 12:10 **Risk Analysis and Communication**
Evelina Trutnevyte
University of Geneva
- Lunch Break
- 13:10 – 14:30 **Virtual Field Trip to the Geothermal Plant in Munich-Sendling**
Sebastian Dimer
SWM - Stadtwerke München
- Break
- 14:40 – 16:00 **Exercises / Wrap-Up**

----- End of Autumn School -----

Wednesday, 7th October 2020

Start of the EGW Webinar

Associated event

8th European Geothermal Workshop 2020 (EGW)

7th - 9th October 2020
Webinar

<https://egw2020.sciencesconf.org/>