

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

FIRST ANNOUNCEMENT AND
CALL FOR ABSTRACTS

Second EAGE Workshop on Geomechanics and Energy

The ground as energy source and storage

13-15 October 2015
Celle, Germany

www.eage.org



Committee

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About the workshop

Hydrocarbon resources as well as alternative sources of energy present in the ground, must be extracted properly from a geo-system that is highly complex. Also, the ground offers a possible host environment as a temporary or definitive solution for the storage of energy or wastes.

The host ground can be strongly impacted by the activity of extraction or storage. In order to keep a high efficiency of the exploited reservoir and to maintain the stability of the system, the mechanical behaviour of the geosystem must be controlled. Consequently, the development of the energy sector, sustainably and in harmony with the geological environment, requires rigorous understanding and assessment of the highly coupled geomechanical response of the geosystem.

Coupling, heterogeneity, uncertainty, anisotropy, non-linearity, irreversibility, space and time multi-scale processes are common features that should be properly tackled if we wish to fully characterize, understand, quantify and predict the behavior of those geosystems.

The inaugural conference of this series (the First International Workshop on Geomechanics and Energy) took place in Lausanne (Switzerland) in November 2013 and attracted more than 90 participants from 18 countries, universities, research centres and industries.

The Second International Workshop on Geomechanics and Energy will be linked to the Sustainable Earth Sciences Conference and Exhibition (SES 2015). Delegates will have the possibility to attend presentations and sessions of both meetings.

The specificity of this workshop is that it gathers various topics that may seem apparently disconnected but that share joint tools for each application. So, the focus will mainly lie on the cross-disciplinary point of view that links the different topics.

The call for abstracts is now open. Each accepted paper will be requested for presentation during the workshop (oral or poster). The workshop will take place across three days, including an ice-breaker reception and a social dinner.

We look forward to welcoming you all to Celle in October 2015.

Prof. L. Laloui* and Prof. B. François**

* Swiss Federal Institute of Technology, Lausanne, Switzerland

** Université Libre de Bruxelles

Who should attend?

We hope this workshop will have general appeal to everybody involved in geomechanical and geotechnical engineering of energy geo-system. It includes experts, companies, contractors, installers and academic researchers facing the need for a deeper understanding of the highly coupled response of geomaterials in interaction with energy infrastructures or waste storage.

Call for abstracts

In order to submit an abstract, please go to www.eage.org/event/geomechanics-energy-2015. Read the information and instructions carefully, prior to submitting. Please be informed that the call for abstracts deadline is 10 June 2015.

Topics

The areas of interest are related to geomechanical application in the subsurface extraction of energy and the storage of waste, including the different levels of investigations: in-situ investigation, laboratory experiment, constitutive modelling and numerical modelling.

High-quality scientific work and contributions in innovative applied-oriented technologies will be encouraged. Specific topics of interest include, but not limited to:

- 1) Hydrocarbon Exploration and Production:
 - a) Naturally and hydraulically fractured reservoirs
 - b) Wellbore stability
 - c) Unconventional energy sources (shale gas, methane hydrate)
 - d) Subsidence
 - e) Fault reactivation
- 2) Underground Storage
 - a) Nuclear waste disposal
 - b) CO₂ sequestration
 - c) Gas underground storage
- 3) Geothermal Energy
 - a) Shallow and deep geothermal energy
 - b) Heat exchanger geostructures

Important dates

Call for Abstracts Open	01 October 2014
Deadline Call for Abstracts	10 June 2015
Second Geomechanics and Energy Workshop	13-15 October 2015

About the city

The workshop will take place in Celle, Germany. For more detailed information about the highlights of the city and how to get there, please visit our event's website.

Sponsorship

The workshop offers a range of high-visibility sponsorship opportunities. For more information, please refer to the 'Sponsoring Guide' that is available on the workshop website or contact us at sponsoring@eage.org.

Short Course

Geomechanics for Energy-related Applications

Short course convenors: Alessio Ferarri & Lyesse Laloui

This short course will be organized prior to the workshop on Monday 12 October 2015 as an optional extra. More information about the short course can be found on our website.

Contact

For more information or enquiries about this workshop please visit the event's website (www.eage.org/event/geomechanics-energy-2015) or contact the EAGE Head Office via conferences@eage.org.

We hope to see you in Celle!





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