

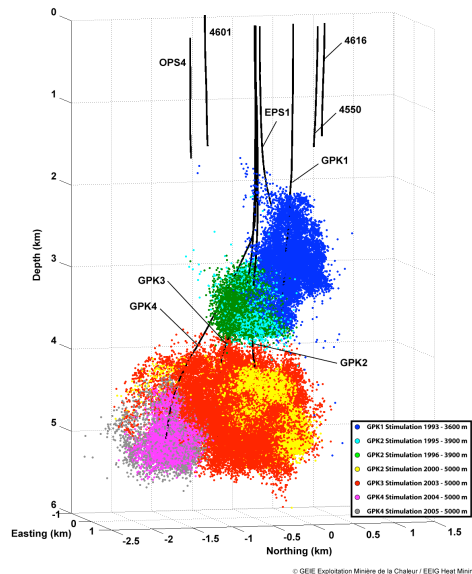
– WORKSHOP ANNOUNCEMENT –

ECGS – FKPE Workshop



- First Circular -

Induced Seismicity



November 15-17, 2010

**Hilton Hotel
Luxembourg**

ORGANIZATION

Joachim Ritter

Karlsruhe Institute of Technology (KIT)

and

Adrien Oth

European Center for Geodynamics and Seismology

SCIENTIFIC COMMITTEE

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B. Dost	KNMI, The Netherlands
S. Husen	ETH Zurich, Switzerland
M. Joswig	University of Stuttgart, Germany
A. Oth	ECGS, Luxembourg
J. Ritter	KIT, Germany
S. Shapiro	Freie Universität Berlin, Germany

LOCAL ORGANIZING COMMITTEE

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C. Galassi	ECGS, Luxembourg
G. Celli	ECGS/MNHN, Luxembourg
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WITH THE SUPPORT OF

Forschungskollegium Physik des Erdkörpers e.V. (FKPE)
Landesforschungszentrum Geothermie – Baden-
Württemberg (KIT)
The Council of Europe (EUR-OPA)
The National Museum of Natural History (MNHN)

SCOPE OF WORKSHOP

Induced seismicity deals with man-made ground shaking due to direct human intervention inside the Earth such as deep mining, water reservoirs etc. Earthquakes induced by geothermal exploration activities, sometimes called deep heat mining, stopped the multi-million EURO investments in Basel

(Switzerland) and the Geysers (California). In southern Germany induced seismicity delays or may even stop geothermal power plants and poses a serious threat to future investments worth several 100 million EURO. Similar problems are known from different areas within Europe. Thus induced seismicity calls forth questions whether geothermal power production is an alternative to other energy sources, although geothermal energy is renewable, base-loadable and CO₂ free.

Induced seismicity is also reported from gas fields, mines and water reservoirs in Europe. The widely discussed storage of CO₂ in the underground (CCS: carbon capture and storage technology), which means injection of fluids at depths of some kilometers, is also a future possible cause for induced seismic events. Thus the future energy supply is related to induced seismicity in several fields. On the other hand, some of the mechanisms related to man-made stress changes at depth are only poorly understood as well as the ambient physical conditions in the reservoir. Therefore we urgently need more data, physical theories and case studies to get a better handle on induced seismicity.

The aim of the ECGS-FKPE Workshop on „Induced Seismicity“ is to bring together leading scientists that work in this field. In contrast to similar workshops on this theme, we want to bring together mainly academic researchers as well as representatives from state geological surveys or state earthquake monitoring agencies. A special volume of the Cahiers du Centre Européen de Géodynamique et de Séismologie will be published with extended abstracts (to be printed just before the meeting).

TENTATIVE PROGRAM

The ECGS-FKPE workshop aims at discussing a wide scientific perspective including themes such as:

- Monitoring strategies
- Modelling of source processes
- Tectonic stress and rock physics related to induced seismicity
- Strategies to avoid/reduce induced shaking
- Case studies

DETAILS

Accommodation: On site (Hilton Hotel Luxembourg)

Number of participants is limited. REGISTER NOW!

Registration fee: 200 €. This includes programme and conference volume, lunch and dinner during the conference as well as the coffee breaks.

VENUE

The conference will be held at the Hilton Hotel in close proximity to the center of Luxembourg, the cosmopolitan capital of the Grand Duchy of Luxembourg.

Luxembourg was a fortress city with reputation to be unseizable, strategically located between the French Kingdom and the German Empire. It was one of the major strongholds in Europe from the 16th Century through its dismantlement in 1867.

Today, Luxembourg is well known as an international Financial Center and for hosting key institutions such as the European Parliament and the European Court of Justice. It is a dynamic and modern city, was European Capital of Culture for the second time in 2007, and is part of the World Heritage List of UNESCO. Enjoy its Old Quarters, fortifications, museums, exhibitions and more.

SCHEDULE

July 1, 2010	2nd Circular
September 13, 2010	Registration and abstract submission deadline
October 1, 2010	Submission deadline for contributions to special volume of Cahiers Bleus
October 29, 2010	Authors notification regarding Cahiers Bleus
November 15, 2010	ECGS-FKPE workshop

Cover: Induced microseismic activity observed during all hydraulic stimulation experiments that were performed at the Soutz EGS site. GPK-1, -2, -3 and -4 are the geothermal wells and the other are seismic observation wells. Several thousands of microearthquakes were induced in each stimulation test and some of them reached magnitudes between 2 and 3.

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2nd CIRCULAR

To be distributed on the web after July 1, 2010. It will contain information on accommodation, payment procedure, preliminary program, presentation and poster guide lines, directions, maps to reach us, etc...

ABSTRACTS

Required for program selection. Conference volume will be distributed at workshop registration.

Guidelines:

Due: September 3, 2010 by e-mail to induced@ecgs.lu

Length: maximum 2 pages including figures.

Margins: A4, 2.54 cm top/bottom margins
3.17 cm right/left margins

Font: Title: Arial 12 Bold, centered
Authors and affiliation: Arial 9
Text: Times New Roman 12

Color: will be printed in black and white

Format: MSWord or rtf.

PROCEEDINGS

Will be published in the "Cahiers du Centre Européen de Géodynamique et de Séismologie". Guidelines will be given in the second circular.

FOR MORE INFORMATION, PLEASE CONTACT

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REGISTRATION FORM

November 15-17, 2010 Luxembourg

First Name:

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Last Name

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Title:

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Organization/Affiliation:

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Address:

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Post Code:

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Country:

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Tel:

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Fax:

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Email:

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Please send me the second circular

I will attend the workshop

I would like to present a talk about:

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I would like to present a poster about:

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Please mail, e-mail or fax this form to Ms Corine GALASSI before July 1, 2010

See www.ecgs.lu for frequently updated information and 2nd circular