

First Announcement of the AGIS/ESC workshop

Induced seismicity and modelling approaches

22./23. November 2017 – 10:00 to 17:00

Lecture Hall of BGR

Stilleweg 2 - 30655 Hannover - Germany

The workshop will focus on case studies, modelling approaches, monitoring results, and hazard assessment of induced seismicity related to extraction, injection, and circulation of fluids.

The workshop is a joint initiative by the *Arbeitsgruppe Induzierte Seismizität* (AGIS) of FKPE¹ and by the *working group on induced seismicity* of ESC². It follows the 2016 workshop of same format, and is formally organized by the Institute for Geophysics, University of Stuttgart and BGR/LBEG Hannover.

¹FKPE *Forschungskollegium Physik des Erdkörpers*, (directors' club of D/A/CH geophysical institutes)

²ESC *European Seismological Commission*

Special emphasis of this year will be on **modelling approaches** for gas production, waste water injection, and geothermal power plants. This is a hot subject in scientific research, and an emerging demand of regulatory authorities in future permissions. Our workshop gives ample time for discussions and secondary statements. Preliminary confirmation of presentations about modelling is already given by

- Tobias **Backers**, geomecon about THMC modelling
- Stefan **Baisch**, Q-Con about TLS in gas fields and geothermal sites
- Loes **Buijze**, Thibault **Candela** &
Brecht **Wassing**, TNO about modelling projects of the geomechanical team at TNO
- Torsten **Dahm**, GFZ Potsdam - to be announced –
- Rebecca **Harrington**, RU Bochum about poroelastic modelling for Canadian shale plays
- Michael **Hou**, TU Clausthal about THMC modelling for Unterhaching geothermal site
- Gang **Li** &
Manfred **Joswig**, U Stuttgart about 3-D HMC modelling of gas production
- Patricia **Martinez-Garzon** &
Marco **Bohnhoff**, GFZ Potsdam about reservoir geomechanics of the Geyers geothermal field
- Serge **Shapiro**, FU Berlin about seismicity magnitudes by injection and production
- Dominik **Zbinden** &
Stefan **Wiemer**, ETH Zurich about modelling of induced seismicity at St. Gallen geothermal project

Our meeting site at BGR/NLFB in Hannover is the center of governmental competence in geosciences in Germany, and hosts the regulatory body for most gas production in Germany. Also all major German oil&gas companies and service suppliers have headquarters in the vicinity of Hannover. Like in our 2016 meeting, you can expect a curious audience of experts from industry, service providers, and governmental employees which want to learn on chances and (actual) limits of geomechanical modelling for seismic hazard assessment.

Please note: Participation is limited to 100 attendees. Cost-free registration is required to sabine.kolss@geophys.uni-stuttgart.de with subsequent confirmation mail. Submission of short abstracts for presentation is due **05.11.2017** to same address. LOC is by Nico Gestermann (nicolai.gestermann@bgr.de) and colleagues at BGR/LBEG.