

Workshop on Induced Seismicity

02./03. November 2022

Hannover, Germany

GeoZentrum Hannover, Stilleweg 2, 30655 Hannover, Großer Sitzungssaal

Organized by:

FKPE working group on induced seismicity (AGIS)

Bundesanstalt für Geowissenschaften und Rohstoffe (BGR)

Landesamt für Bergbau, Energie und Geologie (LBEG)

Wednesday, 02.11.2022 (13:00 – 16:30)

Workshop Oral Session 1 (13:00 – 14:30)

Jenny Borns, FSU Jena

Automatic moment magnitude determination for induced seismicity in deep geothermal energy - Creation of attenuation model

Alexander Wilczek, DMT **abgesagt, fällt aus**

Determination of Near-Surface Structures in Geothermal Areas

Philip Hering, Georg Rumpker & Michael Lindenfeld, GU Frankfurt

Localization of induced geothermal Seismicity using a robust seismic Array Data Processing Approach (SEIGER TP3)

Break (14:30 – 15:00)

Workshop Oral Session 2 (15:00 – 17:00)

Tobias Megies, LMU München **abgesagt, fällt aus**

Seismizität bei Geothermie in Bayern und Monitoring im Großraum München

Martina Rische (RUB), Thomas Niederhuber (KIT), Birgit Müller (KIT)

Correlation of microseismicity, mine water rise and stress field in abandoned coal mines in the eastern Ruhr area

Ulrich Wegler & Marcel van Laaten, FSU Jena

Induced Seismicity in the Southern Harz Potash Mining District with Emphasis on Automatic Detection

Sabrina Keil

Optimum Network Design for Microseismic Monitoring in an Urban Area – A Case Study in Munich, Germany

We regret not to organize a joint dinner since we cannot anticipate the course of infections or meeting regulations in autumn.

Thursday, 03.11.2022 (09:15 – 13:00)

Workshop Oral Session 3 (09:15 – 11:00)

Grzegorz Kwiatek, GFZ German Research Centre for Geosciences
Limited earthquake interactions during 2018 and 2020 geothermal hydraulic stimulations in Helsinki, Finland

Carolin Böse, Georg Dresen, Marco Bohnhoff, Jochem Kück, Ulrich Harms & Ingo Sass, Deutsches GeoForschungsZentrum GFZ
GEOREAL – Adaptive Stimulation at the KTB deep laboratory (short presentation)

Hendrawan Diandaru Bayu Aji, Christian-Albrechts-Universität zu Kiel
Geotechnical risks of CO₂ Storage in Geological Formations of the German North Sea

Thomas Braun & Stefania Danesi,
Experiences from 3 years of monitoring hydrocarbon and geothermal exploitation in Italy.

Break (11:00 – 11:30)

Workshop Poster Session (11:30 – 12:00)

Aida Azari Sisi, Manuel Hobiger, Thomas Spies, Diethelm Kaiser and Andreas Steinberg, BGR Hannover
Variation of the magnitude frequency distribution associated with induced seismicity around Landau for probabilistic seismic hazard assessment

Andreas Steinberg, Peter Gaebler, Stefanie Donner, BGR Hannover
Evaluating the impact of source mechanism on earthquake ground motion

AGIS meeting of members, in German (12:00 – 13:00)