

Workshop on Induced Seismicity

12 November 2021

Video Event

Organized by
FKPE working group on induced seismicity (AGIS)
Local Organizing Committee:
Geothermal-Alliance Bavaria (GAB)
Ludwig-Maximilians-Universität München (LMU)

Agenda

Session 1 (9:00 – 10:20 am)

Welcome by the head of AGIS, Ulrich Wegler (University of Jena)

Work in progress: The Otaniemi, Finland, geothermal system; data and research

¹G. Hillers, ¹T. Vuorinen, ¹A. Rintamäki, ²G. Taylor, ³T. Eulenfeld, ⁴R. Courbis, ⁵L. Krenz, ⁶B. Li, ⁶A.-A. Gabriel

¹University of Helsinki, Finland, ²UK Hydrographic Office, Taunton, UK, ³University of Jena, Germany, ⁴Sisprobe, Grenoble, France, ⁵Technical University of Munich, German, ⁶Ludwig Maximilian University, Munich, Germany

Factors governing stable seismic energy release during 2018 and 2020 stimulations in EGS Helsinki, Finland

G. Kwiatek, M. Leonhardt, P. Martinez-Garzon, M. Bohnhoff, and G. Dresen (GFZ, Potsdam)

Seismic monitoring network for mining activities in the Netherlands

Pauline Kruiver, Bernard Dost, Elmer Ruigrok, Jesper Spetzler, Láslo Evers (KNMI, Netherlands)

Site characterization with near-surface vertical arrays in the Netherlands

Elmer Ruigrok and Bernard Dost (KNMI, Netherlands)

Break (10:20 – 10:40 am)

Session 2 (10:40 – 12:20 am)

Analysis of the 2019 fluid-injection Induced seismicity near Blackpool (UK) using template matching and surface stations

Nasim Karamzadeh¹, Mike Lindner¹, Benjamin Edwards², Emmanuel Gaucher³, Andreas Rietbrock¹

¹Geophysical Institute, KIT, Karlsruhe, ²School of Environmental Sciences, Univ. of Liverpool, Liverpool, ³Institute of Applied Geosciences, KIT, Karlsruhe

Induced seismicity below the city of Strasbourg, France from November 2019 to June 2021

Jean Schmittbuhl, Sophie Lambotte, Olivier Lengliné, Marc Grunberg, Hélène Jund, Jérôme Vergne, François Cornet, Cécile Doubre, Frédéric Masson, (EOST, CNRS/Strasbourg Univ.)

News from the monitoring hydrocarbon exploitation in Val d'Agri (Basilicata, Italy)

Thomas Braun (INGV, Italy)

Induced Seismicity during the STIMTEC Hydraulic Stimulation Experiment at the URL Reiche Zeche Mine, Germany

C. Böse, G. Kwiatak, J. Renner, G. Dresen and STIMTEC team (GFZ, Potsdam)

Lunch break (0:20 – 1:20 pm)

Session 3 (1:20 – 2:30 pm)

Current Status of DAMAST Project - a brief overview (short)

Birgit Müller¹, Thomas Niederhuber¹, Frank Schilling¹, Stefan Hinz¹, Stephan Hilgert¹, Andreas Kron¹, Hansjörg Kutterer¹, Sadeep Ottenburger¹, Andreas Rietbrock¹, Andreas Schenk¹, Malte Westerhaus¹, Thomas Röckel², George Melikadze³, Nino Tsereteli³, David Svanadze³, Tamaz Chelidze³, Marian Kalabegishvili⁴

¹KIT, ²Piewak&Partner, ³Tiflis State University, ⁴Georgian Technical University

Monitoring induced seismicity at Enguri Dam, Georgia (short)

Andreas Rietbrock¹, Nasim Karamzadeh¹, Emmanuel Gaucher², Nino Tsereteli³, Michael Frietsch¹, Nazi Tughushi³, Tamar Shubladze³, Lasha Ghudushauri³

¹Geophysical Institute, KIT, Karlsruhe, ²Institute of Applied Geosciences, KIT, Karlsruhe, ³Institute of Geophysics, I. Javakishvili State University, Tbilisi, Georgia

Auswirkungen an der Oberfläche durch induzierte seismische Ereignisse in Niedersachsen

Monika Bischoff und Ayk Schindewolf (LBEG)

Abschätzung von Detektionsgrenzen mittels Bodenunruhe (Kurzvortrag)

Maria-Theresia Apoloner (ZAMG, Wien)

Geothermie-Betreibernetz für seismologische Überwachung im Großraum München (Kurzvortrag)

Tobias Brestrich und Thomas Schicht (K-UTEK AG Salt Technologies)

Break (2:30 – 2:50 pm)

Session 4 (2:50 – 4:00 pm)

Effective investigation of the shallow subsurface using seismic measurements (SEIGER Project)

Sandra Beiers, Thomas Spies, Manuel Hobiger and Björn Goebel (BGR)

Comparison of S-Wave Velocity/Depth-Profiles Determined by VSP and Ambient Noise Measurement (SEIGER Project) (short)

Alexander Wilczek (DMT) and Manuel Hobiger (BGR)

Comparison of detectors for monitoring induced seismicity and outlook on modelling (SEIGER Project)

Andreas Steinberg and Peter Gaebler (BGR)

Numerical simulations of induced seismicity at the geothermal power plant in Poing, Germany (SEIGER Project)

Sabrina Keil and Joachim Wassermann (LMU, Munich)

Break (4:00 – 4:15 pm)

AGIS meeting of members (in German) (4:15 – 5:30 pm)

Sitzung der FKPE-AG “Induzierte Seismizität“ (AGIS)
gesonderte Agenda

End of the meeting at about 5:30 pm