

## ECGS – FKPE Workshop

### INDUCED SEISMICITY

---- November 15-17, 2010 ----

- List of accepted contributions -

#### Keynote/Overview Lectures

Cuenot, N.

*Induced microseismic activity at the Soultz-sous-Forêts EGS site: Main scientific results obtained in different experimental conditions*

Dahm, T., S. Hainzl, D. Becker, and the DINSeis working group

*How to discriminate induced, triggered and natural seismicity*

Deichmann, N., and K. F. Evans

*Injection-induced seismicity – lessons learned and open questions*

Dost, B., D. Kraaijpoel, T. van Eck, and F. Goutbeek

*Observing and analyzing seismicity at gas production fields in the Netherlands*

Fischer, T., A. Guest, and V. Vavryčuk

*Shear and tensile earthquakes caused by fluid injection*

Husen, S., E. Kissling, and A. van Deschwenden

*Induced earthquakes during the construction of the Gotthard basetunnel, Switzerland: Hypocenter locations and source parameters*

Joswig, M.

*Recent alternatives in seismic monitoring of geothermal sites*

Shapiro, S.

*Towards quantifying the seismogenesis of fluid injections in rocks*

## Oral Presentations

Bethmann, F., N. Deichmann, and P. M. Mai

*Attenuation measurements from borehole and surface recordings for induced earthquakes in the city of Basel, Switzerland*

Bischoff, M., L. Fischer, S. Wehling-Benatelli, R. Fritschen, T. Meier, and W. Friederich

*Spatio-temporal characteristics of mining induced seismicity in the eastern Ruhr-area*

Blascheck, P., M. Häge, and M. Joswig

*First results of nanoseismic monitoring at geothermal sites*

Bohnhoff, M., and M. D. Zoback

*Oscillation of fluid-filled cracks triggered by degassing of CO<sub>2</sub> due to leakage along wellbores*

Calo', M., C. Dorbath, N. Cuenot, F. Cornet, and A. Genter

*The contribution of the Local Earthquake Tomography in the EGS geothermal reservoir of Soultz-Sous-Forêts (France) during hydraulic stimulations*

Contrucci, I., E. Klein, N.-T. Kao, and P. Bigarre

*Micro-seismic and leveling monitoring of a solution mining cavern collapse*

Eyidogan, H., V. Gecgel, and Z. Pabuccu (CANCELLED)

*Triggered seismicity characteristics of Ataturk Dam, eastern Turkey: 1992-2009*

Groos, J., and J. R. R. Ritter

*Seismic noise: A challenge and opportunity for seismological monitoring in densely populated areas*

Konovalov, A. V., and S. B. Turuntaev

*Induced seismicity due to hydrocarbon production in the North-Eastern part of Sakhalin island: Weak motion monitoring and further prospects*

Kraft, T., N. Deichmann, and K. F. Evans

*Detailed imaging of the Basel EGS reservoir – high-precision relocation and focal mechanisms of the induced microseismicity*

Kwiatek, G., K. Plenkers, G. Dresen, and the JAGUARS research group

*Scaling relations of induced seismicity in picoscale: A case study from Mponeng deep gold mine, South Africa*

Mena, B., S. Wiemer, and C. Bachmann

*Performance testing of forecasting models developed for induced seismicity due to enhanced geothermal systems*

Oye, V., H. N. Gharti, D. Kühn, and A. Braathen

*Microseismic monitoring of fluid injection at the Longyearbyen CO<sub>2</sub>-Lab, Svalbard*

Plenkers, K., D. Schorlemmer, G. Kwiatek, and the JAGUARS research group

*On the potentials and limitations of a seismic network's sensitivity when monitoring induced seismicity*

Schmidt, B., B. Rogulic, and J. Ritter

*Relationship between reduced injection rates and reduced induced seismicity – 3 years of field data from the commercial geothermal power plant Landau (Germany)*

Turuntaev, S. B., E. I. Eremeeva, and E. V. Zenchenko

*Laboratory study of temporal-spatial peculiarities of microseismicity spreading due to pore pressure change*

Wenzel, F., A. Barth, C. Langenbruch, and S. A. Shapiro

*Occurrence probability and earthquake size of post shut-in events in geothermal projects*

## Poster Presentations

Akopian, S. Ts., and E. A. Popov

*Monitoring induced seismicity based on seismic entropy method*

Braun, T., J. Heinicke, and T. Dahm

*The difficulty to distinguish natural and human related seismicity in a complex tectonically active area*

Chelidze, T., T. Matcharashvili, O. Lursmanashvili, and N. Varamashvili (CANCELLED)

*Dynamic triggering and synchronization: from laboratory stick-slip to seismicity*

Godey, S., and R. Bossu

*How to better discard non tectonic events from seismicity catalogues?*

Lindenfeld, M., G. Rumpker, and M. Kracht

*Microseismic monitoring: A proposed study in the Upper Rhinegraben and experiences from the East African Rift System*

Moldoveanu, T., K.-P. Bonjer, and M. Pecingine

*Aspects concerning seismicity analyses of the Vidraru – Arges (Romania) dam area*

Plenefisch, T., U. Wegler, M. Keyser, and E. Wetzig

*Monitoring of microseismic activity around the GenSys deep geothermal drilling site, Hannover (Germany)*

Turuntaev, S. B., and O. Yu. Melchaeva

*Non-linear analysis of seismic regime response to electromagnetic powerful source actions*

Wegler, U., and C. Bönnemann

*Project MAGS – Microseismic Activity of Geothermal Reservoirs*

Zahran, H. M., Sy. El-Hadidy, and Kh. Yosef

*Recent earthquake activity at Haradh region, western Saudi Arabia*