

List of Publications

- Buske, S., Gutjahr, S., Rentsch, S., and Shapiro, S. (2006). Active and passive seismic imaging of the San-Andreas-Fault-System, 12th International Symposium on deep seismic profiling of the continents and their margins, Hayama, Japan, (SDE-P16).
- Buske, S., Gutjahr, S., Rentsch, S. and Shapiro, S.A. (2007). Application of Fresnel-Volume-Migration to the SAFOD2003 Data Set. EAGE, 69th Meeting, London, Expanded Abstracts.
- Delepine, N., Cuenot, N., Rotherth, E., Parotidis, M., Rentsch, S., and Shapiro, S. A. (2004). Characterization of fluid transport properties of the hot dry rock reservoir Soultz-2000 using induced microseismicity. *Journal of Geophys. and Eng.*, 1(1):77-83.
- Rentsch, S. (2003). Hydraulic characterization of rocks using density of induced microseismicity. Master's thesis, Freie Universität Berlin.
- Rentsch, S., Buske, S., Gutjahr, S., Kummerow, J. and Shapiro, S.A. (2006). Passive seismic monitoring at the San Andreas Fault at Parkfield, California. Annual Report PHASE-Consortium.
- Rentsch, S., Buske, S., Gutjahr, S., Kummerow, J. and Shapiro, S.A. (2007). Migration-Based Location of the SAFOD Target-Earthquakes. EAGE, 69th Meeting, London, Expanded Abstracts.
- Rentsch, S., Buske, S., Kummerow, J., Shapiro, S. A., Chavarria, J. A., and Goertz, A. (2006). Passive seismic monitoring using Gaussian Beams with application to borehole data from the San Andreas Fault at Parkfield, California. 76th SEG Meeting, New Orleans, Extended Abstracts.
- Rentsch, S., Buske, S., Lüth, S., and Shapiro, S. A. (2004a). Location of seismicity: a migration based approach. Annual Report WIT-Consortium.
- Rentsch, S., Buske, S., Lüth, S., and Shapiro, S. A. (2004b). Location of seismicity using Gaussian beam type migration. Annual Meeting of the German Geophysical Society, Berlin, SO24.
- Rentsch, S., Buske, S., Lüth, S., and Shapiro, S. A. (2004c). Location of seismicity using Gaussian beam type migration. 74th SEG Meeting, Denver, Extended Abstracts, BGP 1.7.
- Rentsch, S., Buske, S., Lüth, S., and Shapiro, S. A. (2005a). A migration-type procedure for the location of seismicity. Workshop on Seismic Reflection Imaging, Seeheim, 2005.
- Rentsch, S., Buske, S., Lüth, S., and Shapiro, S. A. (2005b). Fast location of seismicity: a migration-type approach. Annual Report PHASE-Consortium.

- Rentsch, S., Buske, S., Lüth, S., and Shapiro, S. A. (2005c). Passive seismic monitoring using a migration technique. EAGE, 67th Meeting, Madrid, Expanded Abstracts.
- Rentsch, S., Buske, S., Lüth, S., and Shapiro, S. A. (2007). Fast location of seismicity: a migration-type approach with application to hydraulic fracturing data. *Geophysics*, 72, (1): S33-S40.
- Rentsch, S., Eisner, L., Kragh, E., and Ludolf, R. (2005c). Internal research report. Schlumberger Cambridge Research.
- Rentsch, S., Rothert, E., and Shapiro, S. A. (2004d). Characterization of hydraulic rock properties using probability of included microseismicity. EAGE, 66th Meeting, Paris, Expanded Abstracts.
- Rentsch, S., Shapiro, S. A., and Rothert, E. (2003). Characterization of hydraulic properties of rocks using probability of fluid-induced micro earthquakes. Annual Report WIT Consortium.
- Rothert, E., Rentsch, S., and Shapiro, S. A. (2004). Fluid-induced microseismicity - a new approach for reservoir characterization using probability considerations. Annual Meeting of the German Geophysical Society, Berlin, SO19.
- Rothert, E., Shapiro, S. A., and Rentsch, S. (2003). Pore pressure related microseismicity in critical earth - a model of the phenomenon and approaches for medium characterization. EURO-Conference on Rock Physics and Geomechanics.
- Shapiro, S. A., Rentsch, S., and Rothert, E. (2004). Characterization of hydraulic properties of rocks using probability of fluid-induced microearthquakes. Annual Report WIT Consortium.
- Shapiro, S. A., Rentsch, S., and Rothert, E. (2005a). Characterization of hydraulic properties of rocks using probability of fluid-induced microearthquakes. *Geophysics*, 70(2): F27-F33.
- Shapiro, S. A., Rentsch, S., and Rothert, E. (2005b). Fluid-Induced Seismicity: Theory, Modeling and Applications. *Journal of Engineering Mechanics*, 131(9):947-952.