

EAGE/DGG Workshop 2014

Microseismic Monitoring

Karlsruhe, Germany
14 March 2014

ISBN: 978-1-5108-2824-7

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2014) by the European Association of Geoscientists & Engineers (EAGE)
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact by the European Association of Geoscientists & Engineers (EAGE)
at the address below.

European Association of Geoscientists & Engineers (EAGE)
PO Box 59
3990 DB Houten
The Netherlands

Phone: +31 88 995 5055
Fax: +31 30 634 3524

eage@eage.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Optimizing Microseismic Monitoring Networks in Densely Populated Areas	1
<i>T. Kraft</i>	
Quantifying and Understanding the Uncertainty Associated with Microseismic Event Locations	6
<i>A. Jupe</i>	
Passive Seismic Monitoring Concepts - The Role of Imaging Conditions and Source Mechanisms	11
<i>O. Zhebel, D. Gajewski, C. Vanelle</i>	
Improved Reservoir Characterization - The Use of Waveform Similarities	16
<i>J. Wassermann, T. Megies</i>	
Seismic Real-Time Monitoring of a Massive Hydraulic Stimulation of a Geothermal Reservoir in the Cooper Basin, Australia	21
<i>S. Baisch, A. McMahon</i>	
Automated Micro-earthquake Location	26
<i>V. Oye</i>	
Improving Sensitivity of Earthquake Measurements by Nanoseismic Monitoring	31
<i>B. Sick, P. Blascheck, M. Joswig</i>	
Effective Detection Capability of a Local Seismic Network	36
<i>E. Gaucher</i>	
Probabilistic Seismic Hazard Analysis for Induced Seismicity	41
<i>D.A. Kraaijpoel, M. Caccavale, T. van Eck, B. Dost</i>	
Towards a Risk Governance Framework for Induced Seismicity	46
<i>S. Wiemer</i>	
Microseismic Monitoring of the northern Upper Rhine Graben – The projects SiMoN and FERRY	51
<i>B. Homuth, M. Lindenfeld, G. Rumpker, H. Winter, M. Kracht</i>	
Hydroacoustic Monitoring of the La Valette Landslide	53
<i>M. Boubacar, S. Bernardie, F Lebert, G. Grandjean, J.P. Malet</i>	
Author Index	