

**5<sup>th</sup> International Colloquium**  
**Historical Earthquakes, Paleoseismology, Neotectonics and Seismic Hazard**  
**11 to 13 October 2017, Hannover**

**Programme**

**Wednesday, 11 October 2017**

09:00 – 10:00 Registration

**10:00 – 10:50 Session 1 | Chair: Diethelm Kaiser**

**Welcome**

10:00 – 10:20 *Prof. Dr. Bernhard Stibrny*, Head of BGR Department Geoscientific Information, International Cooperation

10:20 **INVITED: Long term earthquake activity between the Lower Rhine Embayment and southern North Sea**

*Thierry Camelbeek, Kris Vanneste, Pierre Alexandre, Koen Verbeeck, Elisabeth Knuts*

10:50 – 11:20 Coffee Break

**11:20 – 12:40 Session 2 | Chair: Jörg Schlittenhardt**

11:20 **Is past deformation of continental interiors a key to understanding modern intraplate seismicity?**

*Jonas Kley, Alexander Malz, Fabian Jähne-Klingberg*

11:40 **“Passive” fault re-activation and hydrotectonics induced by the October 30, 2016 Mw 6.5 earthquake in central Italy**

*Stefano Gori, E. Falucci, F. Galadini, M. Saroli, M. Moro, C. Bignami, L. Lo Sardo, M. Albano, D. Cinti, N. Voltattorni, M. Petitta, F. Savi*

12:00 **Surface manifestations of the active faults of Sub-Himalayan North-West**

*Hitander Singh Gill, Sarabjeet Singh, Tejpal Singh, Seema Singh*

12:20 **Palaeoseismology of the Ovacik Fault (OF): Timing of palaeoevents and implications for the internal deformation of Anatolia**

*Müge Yazıcı, Cengiz Zabcı, Boris A. Natalin, H. Serdar Akyüz*

12:40 – 13:50 Lunch

**13:50 – 15:10 Session 3 | Chair: Klaus Reicherter**

13:50 **Active tectonic deformation and concomitant drainage development**

*Tejpal Singh, A. K. Awasthi, Vinay Kumar*

14:10 **Is it meaningful to track down writers of old newspaper accounts testifying of earthquake effects? Cases from northern Europe**

*Päivi Mäntyniemi*

14:30 **Analysis of shear-deformation bands in unconsolidated sediments: from outcrop studies to sandbox experiments: implications for paleoseismological studies**

*Christian Brandes, David C. Tanner*

14:50 **Reconstructing the Holocene earthquake history from combined surface weathering analyses and cosmogenic <sup>36</sup>Cl dating of the Pisia fault plane (Corinth rift)**  
*Silke Mechernich, S. Schneiderwind, J. Mason, I. D. Papanikolaou, G. Deligiannakis, A. Pallikarakis, S. A. Binnie, T. J. Dunaj, K. Reicherter*

15:10 – 15:40 Coffee Break

**15:40 – 17:10 Session 4 | Chair: Christa Hammerl**

15:40 **INVITED: Best practice of macroseismic intensity assessment applied to the earthquake catalogue of southwestern Germany**  
*Wolfgang Brüstle, and project team*

16:10 **The database of the earthquake catalogue of southwestern Germany**  
*Silke Hock*

16:30 **One hundred years of macroseismology, the 20th century in southwestern Germany**  
*Fee-Alexandra Rodler*

16:50 **"Yesterday we had an earthquake as usual". Earthquake reports of civil servants and mayors during the earthquake series in Freudenstadt (Black Forest), southwestern Germany, 1822-1823**  
*Uwe Braumann*

**17:10 – 18:10 Poster Session**

19:30 Meet for dinner

**Thursday, 12 October 2017**

**09:00 – 10:20 Session 5 | Chair: Christian Brandes**

09:00 **A XIX<sup>th</sup> century national Prussian macroseismic questionnaire**  
*Elisabeth Knuts, K.-G. Hinzen, T. Camelbeeck*

09:20 **Input of non-narrative archives (land register, visit report and notarial archives) in historical seismicity: the 14<sup>th</sup> august 1708 Manosque earthquake (Provence, I<sub>0</sub>=VIII)**  
*Thibault Fradet*

09:40 **Re-evaluation of macroseismic intensities for the territory of Slovakia: preliminary results**  
*Róbert Kysel, Andrej Cipciar, Kristián Csicsay, Zuzana Margočová*

10:00 – 10:50 Coffee Break

10:50 – 12:30		Session 6   Chair: Wolfgang Brüstle
10:50	<b>29 January 1917 Brežice, Slovenia Earthquake in the light of the newly discovered data</b> <i>Ina Cčić, Dušan Nečak, Marko Berus</i>	
11:10	<b>The 1845 Lesvos, Greece, earthquake revisited: comparison with the 2017 event</b> <i>Vasiliki Kouskouna</i>	
11:30	<b>The earthquake of September 3, 1770 near Alfhausen/Northern Germany: real, doubtful or a fake?</b> <i>Günter Leydecker, Klaus Lehmann</i>	
11:50	<b>Towards rapid likelihood estimation of earthquake-triggered mass-movements in Switzerland based on the calibration to historical observations</b> <i>Donat Fäh, Carlo Cauzzi</i>	
12:10	<b>Uncertainties on earthquake parameters determined from historical catalog and their propagation to seismic hazard</b> <i>Ludmila Provost, O. Scotti, C. Clément</i>	
12:30 – 13:40		Lunch
13:40 – 16:10		Session 7   Chair: Ina Cčić
13:40	<b>INVITED: The Probabilistic Seismic Hazard Assessment of Germany - Version 2016. Considering the Range of Epistemic Uncertainties and user needs</b> <i>Fabrice Cotton</i>	
14:10	<b>Earthquake clustering in modern seismicity and its relationship with strong historical earthquakes around Beijing, China</b> <i>Jian Wang, Ian G. Main, Roger M. W. Musson</i>	
14:30	<b>Status of the ISC-GEM Global Instrumental Earthquake Catalogue (1904-2013)</b> <i>Dmitry A. Storchak, Domenico Di Giacomo, James Harris</i>	
14:50	<b>The French seismic CATalogue (FCAT-17)</b> <i>Paola Traversa, K. Manchuel, D. Baumont, M. Cara, E. Nayman, C. Durouchoux</i>	
15:10	<b>Earthquake Database of Germany</b> <i>Diethelm Kaiser, Gernot Hartmann</i>	
15:30	<b>Archaeo- and paleoseismology at Como (N Italy): evidence for a lost late-Roman earthquake?</b> <i>Francesca Ferrario, E. Ticozzi, F. Livio, C. Frigerio, E. Martinelli, P. Blockley, A. M. Michetti</i>	
15:50	<b>Earthquake damage in a low-seismicity area - St. Michael church in Cluj (Transylvania, Romania)</b> <i>Miklos Kázmér</i>	
16:10 – 16:40		Coffee Break
16:40 – 17:40		Poster Session
17:40 – 18:20		Session 8: Final discussion, closing remarks   Chair: Thomas Spies
19:30		Meet for dinner

## Poster Session

- 1 **Paleoseismological analysis of the Harz boundary fault northern Germany**  
*Katharina Müller, C. Brandes, U. Polom, S. Tsukamoto, T. Spies, T. Lege, M. Frechen, J. Winsemann*

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- 2 **New evidence of Late Weichselian paleoseismic activity in NE Germany**  
*Szymon Belzyt, A. Börner, H. Rother, M. Pisarska-Jamroży, A. J. Van Loon, T. Baldus, G. Hoffmann, H. Hüneke, M. Kenzler, K. Obst*

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- 3 **Contributions to neotectonic structures (seismites) and prehistoric earthquakes in Hamburg and Schleswig-Holstein (NW Germany)**  
*Alf Grube*

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- 4 **Glacial isostatic adjustment as controlling factor for paleoseismic events and historic earthquakes in northern Central Europe**  
*Christian Brandes, Holger Steffen, Rebekka Steffen, Patrick Wu*

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- 5 **Historical seismicity in Great Kabylia (Algeria)**  
*Nadia Sidi Said*

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- 6 **90th anniversary of the 1927 Schwadorf/Lower Austria earthquake**  
*Christa Hammerl*

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- 7 **The updated earthquake catalogue for the state of Hesse, Germany (SKHe2016)**  
*Matthias Kracht, Benjamin Homuth*

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- 8 **New macroseismic studies of the 2014-2015 earthquake series near Ober-Ramstadt as well as macroseismic reevaluations of the 1869-1871 earthquake swarm in the northern Upper Rhine Graben**  
*Benjamin Homuth, Matthias Kracht*

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- 9 **Proposal to improve parametric earthquake catalogues**  
*Horst Neunhöfer*

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- 10 **Historical earthquakes in Thuringia and Northwest Saxonia (Germany) – Revision of data and interpretation**  
*Horst Neunhöfer*

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- 11 **6 May 1976 Friuli Earthquake – Further Re-evaluation of Macroseismic Data**  
*Diethelm Kaiser, Ina Cević, Gottfried Grünthal, Rita Meurers, Jana Pazdirková, Ivica Sović, Andrea Tertulliani, Róbert Kysel, Christophe Sira*

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- 12 **Coda waves attenuation for Racha region of Georgia**  
*Ia Shengelia, N. Jorjashvili, T. Godoladze, N. Tumanovi, M. Gigiberia*

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- 13 **Calculation of Moment Magnitude for the German Earthquake Catalogue**  
*Timo Schmitt, Günter Leydecker*

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- 14 **Establishment of a comprehensive seismic database as a basis of hazard assessment in Germany and Central Europe using historical, paleoseismic and neotectonic evidence**  
*Thomas Spies, Diethelm Kaiser, Jörg Schlittenhardt, Klaus Reicherter, Jochen Hürtgen*

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- 15 **Studies on the seismic hazard in the Czech Republic carried out in the project SIGMA-2**  
*Ivan Prachar*

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- 16 **Engineering – seismogeological structure of Georgia, the influence of geological and geophysical parameters on seismic hazard**  
*Nato Jorjashvili, M. Gigiberia, I. Shengelia, M. Otinashvili*

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- 17 **Importance of Local Active Fault in Seismic Hazard Estimation for Developing countries like India**  
*Sambit Prasanajit Naik, Javed N. Malik*
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- 18 **Soft-sediment deformation structures (SSDS) on the islands Hiddensee and Rügen (NE Germany): evidence of recent tectonic activity?**  
*Tamara Baldus, Christine Schirra, Gösta Hoffmann*
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- 19 **Raised beach rock as evidence for recent neotectonic movements, an example from Oman (Northern Indian Ocean)**  
*Michaela Falkenroth, Bastian Schneider, Gösta Hoffmann*
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- 20 **Assessing palaeoseismic activity in the southern Upper Rhine Graben – preliminary results of an ongoing study**  
*Jessica Thomas, Stéphane Baize, Klaus Reicherter*
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- 21 **Sublacustrine paleoseismology: Limitations and perspectives from the Swiss Alps**  
*Katrina Kremer, Stefanie B. Wirth, Anna Reusch, Donat Fäh, Benjamin Bellwald, Flavio S. Anselmetti, Stéphanie Girardclos, Michael Strasser*
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**Friday, 13 October 2017**

- 08:00 Start of field trip
- 18:00 Return to BGR Hannover
- 18:30 Railway station Hannover