

Second Circular 5th International Colloquium



*Historical representation of earthquake impacts in Bielefeld 1612
(Alzenbach, 1612; Source: City Archive Bielefeld)*

Historical Earthquakes, Paleoseismology, Neotectonics and Seismic Hazard 11 to 13 of October 2017 Hannover

Second Circular
5th International Colloquium
Historical Earthquakes, Paleoseismology, Neotectonics and Seismic Hazard
11 to 13 October 2017
Hannover

Venue

Federal Institute for Geosciences and Natural Resources (BGR), Stilleweg 2, 30655 Hannover, Germany

Organizing Committee

Dr. Diethelm Kaiser, Hon.-Prof. Dr. Thomas Spies,
Dr. Jörg Schlittenhardt (BGR Hannover),

Dr. Christian Brandes, Prof. Dr. Jutta Winsemann,
(Institute of Geology, Leibniz Universität Hannover),

Prof. Dr. Klaus Reicherter (Neotectonics and Natural Hazards Group, RWTH Aachen University)

Email: hist-quake-2017@bgr.de

Schedule of the Colloquium

11 October 2017

09:00 Registration

10:00 Welcome

10:20 – 18:30 Sessions 1 to 4

12 October 2017

09:00 – 18:20 Sessions 5 to 8

13 October 2017

08:00 – 18:00 Field trip

The draft programme is attached.

The meeting language will be English.

If you are interested, there will be an opportunity for a joint dinner on 11 and 12 October.

Guidelines for Authors

Oral presentations

All talks will be held in the BGR conference hall.

There will be 20 minutes allocated to each speaker, 15 minutes for presentation and 5 minutes for questions and discussion. The overall time allocated for invited speakers will be 30 minutes.

Please upload your talk in the break before your session at the latest at the colloquium office (room A15). The following presentation formats will be accepted: Powerpoint and pdf.

Posters

All posters will be presented on the gallery close to the conference hall.

Maximum poster size: A0 (119 x 84 cm), portrait.

Posters should be put up on 11 October morning, and taken down at the end of 12 October. Please ensure your poster is set up at the poster board number allocated to your entry in the poster schedule.

Post Colloquium Field Trip

On Friday **13 October 2017** the Post Colloquium Field Trip to the Aller valley will take place. The Aller fault zone is one of the major fault zones in northern Germany with a length of about 250 km. It was active throughout the Mesozoic and there is evidence from historical earthquakes that it is an active fault. Most parts of the fault zone are buried below Cenozoic and Quaternary sediments. At the south-eastern end, a few outcrops allow to access parts of the Aller fault zone. The aim of this one-day field trip is to visit selected outcrops and to show faults, fractures and deformation bands related to the Aller fault zone and may be related to the sources of the historical seismicity.

We will start at 8:00 at BGR Hannover and return to BGR around 18:00 depending on traffic conditions and end 18:30 at the main railway station Hannover.

For registration and payment see below.

Costs

Attendance to the sessions is free of charge.

Vouchers for lunch can be purchased at the registration desk for 9 EUR each.

The cost of the field trip will be 35 EUR including lunch package and mineral water. After registration we will send you a confirmation email with detailed information on the money transfer.

Registration

Please register by sending an email to hist-quake-2017@bgr.de providing your full name and affiliation. Please indicate if you will participate in the field trip.

Deadline for registration: 10 September 2017

The deadline for abstract submission ended 31 July 2017.

Webpage of the Colloquium

For additional information and updates please visit:

www.bgr.bund.de/hist-quake-2017

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Draft Programme

Last modified on: 29 August 2017

Wednesday, 11 October 2017

09:00 – 10:00	Registration
10:00 – 10:50	Session 1
10:00 – 10:20	Welcome
10:20	INVITED: Long term earthquake activity between the Lower Rhine Embayment and southern North Sea <i>Thierry Camelbeeck, Kris Vanneste, Pierre Alexandre, Koen Verbeeck, Elisabeth Knuts</i>
10:50 – 11:20	Coffee Break
11:20 – 13:00	Session 2
11:20	Is past deformation of continental interiors a key to understanding modern intraplate seismicity? <i>Jonas Kley, Alexander Malz, Fabian Jähne-Klingberg</i>
11:40	“Passive” fault re-activation and hydrotectonics induced by the October 30, 2016 Mw 6.5 earthquake in central Italy <i>Stefano Gori, E. Falcucci, F. Galadini, M. Saroli, M. Moro, C. Bignami, L. Lo Sardo, M. Albano, D. Cinti, N. Voltattorni, M. Petitta, F. Savi</i>
12:00	Surface manifestations of the active faults of Sub-Himalayan North-West <i>Hitander Singh Gill, Sarabjeet Singh, Tejpal Singh, Seema Singh</i>
12:20	Neotectonic indications in vicinity of a potentially active faults in the Sétif region (East Algeria) <i>Sahra Aourari</i>
12:40	Palaeoseismology of the Ovacık Fault (OF): Timing of palaeoevents and implications for the internal deformation of Anatolia <i>Müge Yazıcı, Cengiz Zabcı, Boris A. Natalin, H. Serdar Akyüz</i>
13:00 – 14:10	Lunch
14:10 – 15:30	Session 3
14:10	Active tectonic deformation and concomitant drainage development <i>Tejpal Singh, Vinay Kumar</i>
14:30	Surface and shallow subsurface structure of the middle Kedrovaya paleoseismic dislocation in the Baikal Ridge <i>Oksana V. Lunina, A.S. Gladkov</i>

- 14:50 **Analysis of shear-deformation bands in unconsolidated sediments: from outcrop studies to sandbox experiments: implications for paleoseismological studies**
Christian Brandes, David C. Tanner
- 15:10 **Reconstructing the Holocene earthquake history from combined surface weathering analyses and cosmogenic ³⁶Cl dating of the Pisias fault plane (Corinth rift)**
Silke Mechernich, S. Schneiderwind, J. Mason, I. D. Papanikolaou, G. Deligiannakis, A. Pallikarakis, S. A. Binnie, T. J. Dunai, K. Reicherter
- 15:30 – 16:00 Coffee Break

16:00 – 17:30

Session 4

- 16:00 **INVITED:**
Best practice of macroseismic intensity assessment applied to the earthquake catalogue of southwestern Germany
Wolfgang Brüstle, and project team
- 16:30 **The database of the earthquake catalogue of southwestern Germany**
Silke Hock
- 16:50 **One hundred years of macroseismology, the 20th century in southwestern Germany**
Fee-Alexandra Rodler
- 17:10 **"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

17:30 – 18:30

Poster Session

- 19:30 Meet for dinner

Thursday, 12 October 2017

09:00 – 10:40

Session 5

- 09:00 **A XIXth 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 14th august 1708 Manosque earthquake (Provence, I₀=VIII)**
Thibault Fradet
- 09:40 **Seismic slip on the west flank of the Upper Rhine Graben (France-Germany): Evidence from historical seismicity, fault scarp morphology and cataclastic deformation bands**
Mustapha Meghraoui, Zoe K. Shipton
- 10:00 **Recent progress on the compilation of a macroseismic database for Turkey**
Karin Sesetyan, Mine Betül Demircioglu, Özge Zülfikar Fercan, Emrullah Dar, Nilgün Merve Çağlar
- 10:20 **Re-evaluation of macroseismic intensities for the territory of Slovakia: preliminary results**
Róbert Kysel, Andrej Cipciar, Kristián Csicsay, Zuzana Margočová
- 10:40 – 11:10 Coffee Break

11:10 – 12:50 **Session 6**

- 11:10 **29 January 1917 Brežice, Slovenia Earthquake in the light of the newly discovered data**
Ina Cecić, Dušan Nečak, Marko Berus
- 11:30 **Is it meaningful to track down writers of old newspaper accounts testifying of earthquake effects? Cases from northern Europe**
Päivi Mäntyniemi
- 11:50 **The 1845 Lesvos, Greece, earthquake revisited: comparison with the 2017 event**
Vasiliki Kouskouna
- 12:10 **The earthquake of September 3, 1770 near Alfhausen/Northern Germany: real, doubtful or a fake?**
Günter Leydecker, Klaus Lehmann
- 12:30 **Towards rapid likelihood estimation of earthquake-triggered mass-movements in Switzerland based on the calibration to historical observations**
Donat Fäh, Carlo Cauzzi
- 12:50 – 14:00 Lunch

14:00 – 15:40 **Session 7**

- 14:00 **INVITED:**
Review on seismic hazard assessment for Germany
Fabrice Cotton
- 14:30 **The French seismic CATalogue (FCAT-17)**
Paola Traversa, K. Manchuel, D. Baumont, M. Cara, E. Nayman, C. Durouchoux
- 14:50 **Earthquake Database of Germany**
Diethelm Kaiser, Gernot Hartmann
- 15:10 **Archaeo- and paleoseismology at Como (N Italy): evidence for a lost late-Roman earthquake?**
Francesca Ferrario, E. Ticozzi, F. Livio, C. Frigerio, E. Martinelli, P. Blockley, A. M. Michetti
- 15:30 **Earthquake damage in a low-seismicity area - St. Michael church in Cluj (Transylvania, Romania)**
Miklos Kázmér
- 15:50 – 16:20 Coffee Break

16:20 – 17:20 **Poster Session**

17:20 – 18:20 **Session 8: Final discussion, closing remarks**

- 19:30 Meet for dinner

Friday, 13 October 2017

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

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

- 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

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

- 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

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

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

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

- 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

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

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

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

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

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

- 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

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

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

- 17 **Importance of Local Active Fault in Seismic Hazard Estimation for Developing countries like India**
Sambit Prasanajit Naik, Javed N. Malik