**Almost final**

# Program

## 9 October (WED) - Arrival in Aachen and Icebreaker Party

Arrival in Aachen

20:00 Icebreaker Party at the Kuckucksnest, Mauerstr. 92, 52064 Aachen (N50°46'22.90" E6°4'25.88"), Registration

## 10 October (THU) - Excursion to Cologne and the Lower Rhine Embayment – Archaeoseismology, Active Faults and Critical Facilities

9:30 excursion to active faults (Flerzheim, Rurrandstörung) and critical facilities (Inden open pit mine) starts at the Aachen Theatre, Theaterplatz 14, 52062 Aachen, (N50°46'19.52" E6° 5'15.38"), Registration

13:00 Arrival at Cologne, time for individual sightseeing, lunch etc.

15:00 Excursion to Roman Ruins in Cologne

17:00 Visit of Cologne Cathedral

19:00 End of excursion and arrival in Aachen

20:00 INQUA Project Business Meeting

# 11 October (FRI) - Opening Ceremony, Invited Conferences, Project Business Meeting, Ship cruise and Conference Dinner

9:00 Transfer to AKNZ Bad Neuenahr-Ahrweiler (N50°31'43.41" E7° 6'25.69"), starts at the Aachen Theatre, Theaterplatz 14, 52062 Aachen
10:30 Registration and check-In
12:00 - 13:00 Lunch
13:00 Opening ceremony:
- Organisation of the workshop: K. Reicherter
- INQUA TERPRO: A. Michetti (president)
- INQUA sub-commission on Paleoseismology: P. Silva (president)
- J. McCalpin invited talk on Paleoseismology

**14:00 - 17:00 Key notes, poster session, talks**

14:00 - 15:00 key note lectures

| 11 October Friday afternoon | Session Tsunamis and Paleotsunamis | Chaired by: N. Mörner |
|---|---|---|
| 14:00 - 14:30<br>11.1 key note | Beverly Goodman-Tchernov | Red Sea Tsunami: Sedimentological Variations due to local Environmental Heterogeneity |
| 14:30 - 15:00<br>11.2 key note | Witold Szczucinksi | Limitations of tsunami deposits identification - problem of sediment sources, sedimentary environments and processes, and post-depositional changes |

15:00 - 16:00 talks

| 11 October Friday afternoon | Session Tsunamis and Paleotsunamis | Chaired by: B. Goodman-Tchernov, W. Szczucinski |
|---|---|---|
| 15:00 - 15:15<br>11.3 talk | Niklas Mörner | Tsunamis and tsunamites: origin and characteristics |
| 15:15 - 15:30<br>11.4 talk | Philipp Kempf | A new long paleo-tsunami coastal lake record from the Valdivia segment, south central Chile: A preliminary age depth model and its implications |
| 15:30 - 15:45<br>11.5 talk | Andrzej Piotrowski | Hypothetical tsunami deposits in the Rogowo area, Baltic Sea coast, North Poland |
| 15:45 - 16:00<br>11.6 talk | Shmulik Marco | Recognizing seiche and tsunami in lake sediments |

16:00 - 17:00 coffee break and poster session

17:00 - 17:45 K. Reicherter - Introduction into local geology
18:00 Departure for ship cruise and conference dinner
[18:30 Dinner at the AKNZ for those who do not participate in the ship cruise]
23:00 Return to AKNZ

# 12 October (SAT) - Scientific Talks and Poster Sessions, Keynote Lectures, wine tasting

7:00 - 8:30 Breakfast

**9:00 - 13:15 Key notes, poster session, talks**

9:00 - 11:00 Key note lectures and talks

| 12 October Saturday morning | Session Earthquake Triggered Mass Movements | Chaired by: H.-B. Havenith |
|---|---|---|
| 9:00 - 9:30<br>12.1 key note | Dave Petley | Towards an understanding of the controls on earthquake triggered landslides |
| 9:30 - 10:00<br>12.2 key note | Alexander Strom | Constraints and promises of earthquake-triggered landslides discrimination |
| 10:00 - 10:30<br>12.3 talk | Xuanmei Fan | Analysis of the distribution of landslides and landslide dams induced by the Wenchuan earthquake |
| 10:30 - 10:45<br>12.4 talk | Hans Balder Havenith | What we can learn from a blind-test for predicting earthquake-triggered landslides applied to the Wenchuan area, China – also for paleoseismological studies |
| 10:45 - 11:00<br>12.5 talk | Elisa Kagan | Seismites and mass movement events from the Dead Sea margins and depocentre |

11:00 - 11:15 break

11:15 - 13:00 key note lectures, talks

| 12 October Saturday morning | Session Society, Communication, Critical Facilities and Seismic Hazard Assessment | Chaired by: L. Guerrieri, T. Spies |
|---|---|---|
| 11:15 - 11:45<br>12.6 key note | Yoshi Fukushima | Contribution of Paleoseismology to Seismic Hazard Assessment for Nuclear Installations |
| 11:45 - 12:00<br>12.7 talk | Stéphane Baize | An outline of the geological contribution to seismic hazard assessment (SHA) for nuclear facilities |
| 12:00 - 12:15<br>12.8 key note | Rivka Amit | The use of paleoseismic data for seismic hazard evaluations of the Dead Sea Transform |
| 12:15 - 12:30<br>12.9 talk | Luigi Palumbo | Devising BDFA: a new active fault database conceived behind nuclear safety assessment in France |
| 12:30 - 12:45<br>12.10 talk | Ioannis Papanikolaou | Natural Hazards and Civil protection management framework in Greek local authorities: A questionnaire survey demonstrates why prevention fails |
| 12:45 - 13:00<br>12.11 talk | Luca Guerrieri | Fault Displacement Hazard in Italy: input for siting of critical facilities and land planning |

13:00 - 14:00 Lunch

**14:00 - 18:30 Key notes, poster session, talks**

14:00 - 15:00 guided poster session (Michetti)

| 12 October Saturday afternoon | Session Earthquakes, Earthquake Environmental Effects and Cascading Effects | Chaired by: F. Cinti, A. Michetti |
|---|---|---|
| 15:00 - 15:15<br>12.12 key note | Francesca Cinti | Earthquakes characteristics vs. natural, anthropic and social effects: a retrospective view from five years of M5+ in Italy |
| 15:15 - 15:30<br>12.13 talk | George Papathanassiou | Earthquake Geo Survey, an application for reporting Earthquake-Induced Environmental Effects |
| 15:30 - 15:45<br>12.14 talk | Pablo Silva | Earthquake environmental effects triggered by the 2011Lorca Event (Mw 5.2), Betic Cordillera, SE Spain): Application of the ESI-07 Scale |
| 15:45 - 16:00<br>12.15 talk | Michael Strasser | Lake sediments as natural seismographs: A compiled record of Late Quaternary earthquakes in Central Switzerland |
| 16:00 - 16:15<br>12.16 talk | Thomas Wiatr | Active bedrock fault scarps and the Terrestrial laser scanning: Insights into to active tectonics and seismic hazards |
| 16:15 - 16:30<br>12.17 talk | Alessandro Michetti | The ESI 2007 scale and the TechDoc |

16:30 - 17:00 break

17:00 - 18:30 talks

| 12 October Saturday evening | Session Paleoseismology | Chaired by: K. Reicherter, T. Rockwell |
|---|---|---|
| 17:00 - 17:15<br>12.18 key note | Young-Seog Kim | Slip distribution and compensation at fault damage zones: Its implications to fault evolution and earthquake hazard |
| 17:15 - 17:30<br>12.19 key note | Jim McCalpin | Heli Lidar mapping |
| 17:30 - 17:45<br>12.20 talk | Kris Vanneste | Paleoseismology of the Geleen fault, Lower Rhine Graben |
| 17:45 - 18:00<br>12.21 talk | Eric Salomon | Repeated folding during late Holocene earthquakes on the La Cal thrust fault near Mendoza City (Argentina) |
| 18:00 - 18:10<br>12.22 talk | Pablo Silva | Development of a numerical system and field-survey charts for earthquake environmental effects based on the Munsell Soil Color Charts |
| 18:10 - 18:20<br>12.23 advertise | Young-Seog Kim | 5th INQUA meeting BUSAN2014 |

18:30 dinner

**20:00 wine tasting event (bus transfer to Weingut Kriechel, or 2 km walk to the winery)**

# 13 October (SUN) - Scientific Talks and Debates, Closing Ceremony

7:00 - 8:30 Breakfast

## 8:00 check-out [important!]

**9:00 - 11:30 Key notes, poster session, talks**

| 13 October Sunday Morning | Session Paleoseismology | Chaired by I. Papanikolaou, Y.-S. Kim |
|---|---|---|
| 9:00 - 9:30<br>13.1 key note | Eldon Gath | The West Beverly Hills Lineament and Beverly Hills High School: An Unexpected Journey |
| 9:30 - 10:00<br>13.2 key note | Tom Rockwell | 4-D rupture histories of major plate boundary faults: a view into long-term fault behavior and fault interaction |
| 10:00 - 10:15<br>13.3 talk | Silke Mechernich | Rupture history and deformation cycle along the eastern Tohoku coastline (Japan) using coastal uplift, tsunami deposits and trenching at an aftershock location |

10:15 - 11:00 break and poster session

| 13 October Sunday morning | Session Paleoseismology | Chaired by: K. Vanneste, J. McCalpin |
|---|---|---|
| 11:00 - 11:15<br>13.4 talk | Jin-Hyuck Choi | Active tectonics around the Yangsan-Ulsan fault system in SE Korea (II): Fault zone analysis and fault evolution |
| 11:15 - 11:30<br>13.5 talk | Laurent Bollinger | Return period of great Himalayan earthquakes in eastern Nepal inferred from studies along the Patu and Bardibas strands of the Main Frontal Thrust. |
| 11:30 - 11:45<br>13.6 talk | Neta Wechsler | Pull-apart Basins as Fault Segment Boundaries – the case of the Sea of Galilee, Israel |

12:00 - 13:00 Lunch

**13:00 - 15:15 Key notes, poster session, talks**

| 13 October Sunday afternoon | Session Archeoseismology | Chaired by: S. Jusseret, M. Rodriguez-Pascua |
|---|---|---|
| 13:00 - 13:30<br>13.7 talk | Simon Jusseret | A new methodology for the critical assessment of earthquake related damages in archaeological context: a proof of concept for the 13th Century BC in Minoan Crete (Late Minoan IIIB) |
| 13:30 - 13:45<br>13.8 talk | Kazmer | The rocking columns of Poreč - Archaeoseismology in the Istria Peninsula, Croatia |

13:45 - 14: 15 coffee break

| 13 October Sunday afternoon | Session Slow Active Faults | Chaired by: E. Hintersberger, P. Štěpančíková |
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| 14:15 - 14:30<br>13.9 talk | Petra Štěpančíková | Late Quaternary Activity of the Sudetic Marginal Fault in the Czech Republic: A signal of Ice Loading |
| 14:30 - 14:45<br>13.10 talk | Petr Špaček | Active tectonics in the West Carpathian Foreland: Nysa-Morava Zone and Upper Morava Basin System (Czech Republic) |
| 14:45 - 15:00<br>13.11 talk | Garcia Moreno | Seeking the source of the AD 1580 Dover-Strait/Pas-de-Calais earthquake (Western Europe). |

**15:00 - 15:30 Closing ceremony**

**15:30 bus transfer to Laacher SeeVolcanic Area, excursion natural hazards and critical facilities, then transfer to Simmerath, Hotel Paulushof (N 50°36'27.32" E6°23'3.95"), Seeufer 10, 52152 Simmerath/Rurberg**

19:00 Check-in

20:00 Dinner

## 14 October (MON) - excursion to Aachen

8:00 Breakfast

9:00 Excursion: Archeoseismology in Aachen

12:00 Time for individual sightseeing, lunch etc.

14:30 Excursion: Faults in Aachen and surroundings

18:00 bus transfer back to Hotel Paulushof

20:00 Dinner

## 15 October (TUE) - departure

8:00 Breakfast

9:00 check-out

9:15 bus transfer to Aachen Hauptbahnhof/main station

# Posters

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|---|---|---|
| 1 | Alexopoulos (Vassilakis) | Revelation of buried active structures with preliminary geophysical and morphotectonic analysis, at eastern Thessaly basin, Greece |
| 2 | Alfonsi | The 1033 A.D. Earthquake: Damages and Kinematics from the Archaeoseismic Study at Hisham Palace (Jordan Valley, Dead Sea transform zone). |
| 3 | Bardají | Paleoseismic evidences in last Interglacial deposits from Cope Basin (Murcia, SE Spain) |
| 4 | Bautista (Bartolome) | An Earthquake Impact Assessment Methodology for the Philippines |
| 5 | Maria Bautista | The REDAS Software: A tool for hazard and risk estimation for Philippine communities |
| 6 | Bavec | Evidence of Idrija fault seismogenic activity during the Late Holocene including the 1511 Mm 6,8 earthquake |
| 7 | Benoit | Quaternary faulting in the central Paris basin: Evidence for coseismic rupture and liquefaction |
| 8 | Blumetti | Facing Fault Displacement Hazard in Italy through paleoseismic investigations: the San Demetrio ne' Vestini (AQ) example |
| 9 | Braun | Prediction of landslide susceptibility in a seismically active high mountain region using data mining methods – a study from Maily-Say, Kyrgyzstan |
| 10 | Choi | Active tectonics around the Yangsan-Ulsan fault system in SE Korea (I): Quaternary faults and paleoseismological studies |
| 11 | Dürrast | Paleoseismological investigations of the eastern part of the Khlong Marui Fault Zone in Surat Thani Province, Southern Thailand |
| 12 | Engel | Holocene tsunamis in the southern Caribbean: evidence from stratigraphic archives and the coarse-clast record |
| 13 | Ferrater | Archaeoseismology in a Bronze aged settlement: La Tira del Lienzo (Totana, Spain) |
| 14 | Garcia | Late Quaternary uplift rate of Lomas de Carabajal, Lerma valley, Cordillera Oriental, NW Argentina. Insights from structural analysis and OSL dating |
| 15 | Grützner | Neotectonic activity of the Milesi Fault, N Attica, Greece |
| 16 | Hassul | Archaeological destruction layers - a key to high accuracy chronostratigraphy |
| 17 | Hoffmann | Holocene tsunami history of the Makran Subduction Zone (Northern Indian Ocean) |
| 18 | Hürtgen | Insights into the Development of a Paleoseismic Database for Germany and Adjacent Countries |
| 19 | Kanari | Locating the on-land continuation of the submarine Avrona Fault, Gulf of Aqaba-Eilat, Israel |
| 20 | Koster | Multiple evidence for tsunami inundation along the coast between Barbate and Zahara de los Atunes (Gulf of Cádiz) |
| 21 | Lacan (Baize) | Upper Pleistocene to Holocene earthquakes recorded at the western termination of the Venta de Bravo Fault system, Acambay Graben (central Mexico) |
| 22 | Landgraf | Lake Issyk Kul: Neotectonic deformation of (paleo-) shorelines and their link with intermontane basin closure and lake-level fluctuations |
| 23 | Livio | Paleoseismicity at the Monte Netto site (Southern Alps, N Italy): blind thrust activity deduced from secondary fold-related faults |
| 24 | Mason | The hanging-wall sedimentary architecture of active normal faults: planned future research on the island of Crete |
| 25 | Nepop | New aspects of using dendrochronological analysis in |

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| | | paleoseismological investigations (by the example of the SE Altai, Russia) |
| 26 | Ortuño | Paleoseismological sites revisited on the Alhama de Murcia Fault (SE Iberia): preliminary results |
| 27 | Pallikarakis | Paleoenvironmental analysis and active faults in the area between Corinth and Saronikos Gulfs |
| 28 | Papanikolaou (Dimitrios) | Growth folding and uplift of Lower and Middle Pleistocene marine terraces in Kephalonia - implications to active tectonics |
| 29 | Qupty | Searching for the offshore tsunamigenic layers from the Santorini related tsunami and the 1956 tsunami at Palaikastro, Crete to better understand tsunami parameters in the shores of Israel |
| 30 | Rezaei | Descriptive and kinematic analysis of fault damage structures around the N-S trending faults in Khajed Morat leucogranite, southeastern Mashad, NE Iran |
| 31 | Rodriguez-Pascua | Preliminary intensity correlation between macroseismic scales (ESI07 and EMS98) and Earthquake Archaeological Effects (EAEs) |
| 32 | Rodriguez-Pascua | Earthquake archaeological effects (EAEs) generated by the Middle Age Catalonian seismic crisis in the Romanic heritage (NE of Spain) |
| 33 | Rudersdorf | Buried faults in desert environments - the application of the H/V spectral ratio technique for surface mapping, a case study from the Ejina Basin, Inner Mongolia, China |
| 34 | Solakov | Seismic Hazard assessment for the Ada Tepe site (Bulgaria) - case study |
| 35 | Sune-Puchol | Paleoseismological Study of the San Mateo Fault, Acambay Graben, Mexico |
| 36 | Vassallo | North-western Himalayan active front: what paleoseismology tells us about very large thrusts |
| 37 | Velázquez | ESI2007 assessment of paleoseismic features in the Acambay and Ixtlahuaca graben, Mexico: evidence for capability along the Perales Fault |
| 38 | Verbeeck | Possible Quaternary activity of the Rauw Fault in the Belgian Campine basin? |
| 39 | Wiatr | Terrestrial remote sensing in an active tectonic environment |
| 40 | Youcef | Field evidence for paleoliquefaction features in western Algeria: A step toward paleoseismic investigation |