

## ***International School of Geophysics - 21st Course***

### **Workshop "Investigating the records of past earthquakes" EMCSC, Erice, Italy, 1-7 July 2002**

#### ***Programme***

*(note: the time allowed for each paper includes 10 minutes for discussion)*

#### ***July 2, morning***

#### ***San Domenico Lecture Hall***

09.15-09.30 **Welcome to participants and introduction to the Workshop**

#### **Session 1**

#### ***Assessing the state-of-the-art of historical earthquake investigation***

***chairperson: Massimiliano Stucchi***

- 09.30-10.20 **Roger M.W. Musson** Historical earthquake research in the UK  
10.20-11.10 **Antoni Roca** Earthquake catalogues, databases and studies of historical seismicity in the Iberian peninsula
- 11.10-11.30 coffee break*
- 11.30-12.10 **Romano Camassi** Historical earthquake investigation in Italy  
12.10-13.00 **Djillali Benouar** A revised earthquake data bank in South-Western Mediterranean countries - Algeria, Morocco, Tunisia - from the record sources of past seismic events

#### ***July 2, afternoon***

***chairperson: Wolfgang Lenhardt***

- 15.00-15.40 **Ina Cecic** Investigating the records of past earthquakes: state-of-the-art in Croatia, Macedonia, Montenegro and Slovenia
- 15.40-16.20 **Peter Labak** Historical earthquake research in Central Europe (Austria, Czech Republic, Hungary, Poland and Slovakia): an overview
- 16.20-17.00 **Monika Gisler** Revision of the earthquake catalogue for Switzerland and neighbouring regions: the example of the December 1720, Lake of Constance earthquake
- 17.00-17.20 coffee break*
- 17.20-18.10 **Ruben Tatevossian** An overview of historical earthquake investigation in Russia
- 18.10-19.00 **Paola Albini** Earthquakes and history: a long-term, European-Mediterranean perspective

**July 3, morning**

**chairperson: Vicki Kouskouna**

09.00-09.50 **Wang Jian**

Investigation and Research on Historical Earthquakes in China: introduction and suggestion

09.50-10.40 **Katsuhiko Ishibashi**

Historical seismology in Japan: the state of the art

10.40-11.10 *coffee break*

11.10-12.00 **Kevin McCue**

Historical earthquake studies in Australia

12.00-12.50 **Gaye Downes**

Procedures used in the investigation of New Zealand's historical earthquakes

**July 3, afternoon**

**chairperson: Aybige Akinci**

15.00-15.50 **Alberto Giesecke**

Development of historical-seismological investigation in the Andean Region

15.50-16.40 **Walter Montero**

A review of historical seismicity studies in Central America

16.40-17.10 *coffee break*

17.10-18.00 **Virginia G. Acosta**

Past and present of Mexican earthquake catalogues. An example of multidisciplinary efforts

18.00-18.50 **Tousson Topozada**

1800 to 1931 pre-instrumental California earthquakes

**July 4, morning**

**chairperson: Roger Musson**

09.00-09.30 **Gottfried Gruenthal**

Studies of historical earthquakes in Germany

***Open session: contributions of the participants (part 1)***

09.30-10.30

**Oral presentations**

**Vicki Kouskouna**

Investigating the records of past Greek earthquakes - some case histories (Attiki, Eastern Aegean)

**Paivi Mantyniemi**

Efforts to re-examine early macroseismic questionnaire data in Finland

**Aranha Izquierdo**

Revision of the Spanish seismic catalogue

**Giuliana Rubbia** Intensity Data Banks on line

**Posters**

**Emmanuel Baroux** Source mechanism of the 11 June 1909 Lambesc (Southern France) earthquake from macroseismic, seismological and geodetic data: constraints from active tectonic deformation in southeastern France

**Georg Gangl, Kurt Decker, Christa Hammerl, Manfred Kandler**  
Approaches of Risk Assessment from Historical and Earth Science Data - exemplary by the Seismological Interpretation of the Roman Excavation of Damaged Masonry Structure in Carnuntum (Austria)

**M.S. Barbano, G.L. Piangiamore and R. Rigano**  
Seismic history and hazard of Palermo (Italy)

**Paulina Amponsah** Seismic activities in Ghana

**Antonio Gomez, Iliara Leschiutta, Elena Migliorini**  
A preliminary attempt of using intensity data points from CERESIS data base to determine the parameters of earthquake sources

10.30-11.00 *coffee break*

11.00-12.00 ***Special lecture by Nicholas N. Ambraseys***  
Long-term seismicity; the state of the art and practice.  
Case histories from the Eastern Mediterranean, Near East and India

12.00-12.45 discussion

***July 4, afternoon***

***excursion to the ruins of Poggioreale and Gibellina (earthquake of 1968)***

**July 5, morning**

**chairperson: Attia Al Sayed**

**Session 2**

**Selected case histories, methodological aspects, complementarity with other data and potential contribution of historical earthquake records**

- 09.00-09.50 **Roger Bilham** Indian earthquakes – fictions, facts, friction and futures
- 09.50-10.40 **Susan E. Hough** Scientific results and historical context of the 1811-1812 New Madrid, Central U.S. earthquakes: a new look at old data
- 10.40-11.10 *coffee break*

**chairperson: Abdunnur Suleyman**

- 11.10-11.50 **America Molina** The Mexican earthquakes: 1800, 1845 and 1858: a comparative study on their political and social effects
- 11.50-12.30 **Jean Vogt** Methodological problems in the historical investigation in the Caribbean earthquakes
- 12.30-13.10 **Christa Hammerl** Case histories-examples from Austria, Slovakia/Hungary and Germany. Different kind of sources - Where they are stored and their value for historical earthquake research

**July 5, afternoon**

**chairperson: Paulina Amponsah**

- 15.00-15.50 **Itoko Kitahara** Documentation of the Historical Disasters in Japan; a Rapid Increase in the Edo Period (17th to the middle of 19th century)
- 15.50-16.40 **Kenji Satake** Case studies of past earthquakes and tsunamis from Japanese historical documents and paleoseismological methods
- 16.40-17.10 *coffee break*

**chairperson: Maria Serafina Barbano**

- 17.10-18.00 **Iaakov Karcz** Current issues in historical seismology of Israel
- 18.00-18.50 **Fabrizio Galadini** Filling the gap of Antiquity in Italy: contribution from the archaeoseismological approach

**July 6, morning**

**chairperson: Gottfried Gruenthal**

**Open session: contributions of the participants (part 2)**

09.00-10.50

**Oral presentations**

- Georgia Poursoulis** Natural hazards and the question of the destructions in bronze age Crete: new results and methodology
- Attia El Sayed** Historical seismic activity in Egypt: a possible missing earthquake
- M. Reda Sbeinati** Historical, archaeosismological and paleoseismic evidences of large earthquakes in Syria (Missyaf Area)
- Sarkis Shahinian** Historical monuments as source for the assessment of past earthquakes
- Dina Silveira** Historical seismic activity of S. Miguel island: new insights
- Gregory Quenet** The historian's contribution to historical seismicity: the case of Manosque 1708
- Rumiana Glavcheva** An examination for analogy in the previous seismicity

10.50-11.20 *coffee break*

**chairperson: Julien Frechet**

- 11.20-12.10 **Massimiliano Stucchi** Assessing the completeness of historical earthquake data sets
- 12.10-13.00 **Gianluca Valensise** The combination of historical, instrumental and geological evidence for large earthquakes: excerpts from the European experience

**July 6, afternoon**

**chairperson: Mohamed Reda Sbeinati**

- 15.00-15.50 **Robin Adams** Re-evaluation of early instrumental earthquake locations
- 15.50-16.30 **Raffaele Azzaro** Historical earthquakes in Sicily

16.30-17.00 *coffee break*

17.00-18.30

*General discussion, closing*

**July 7, departure**