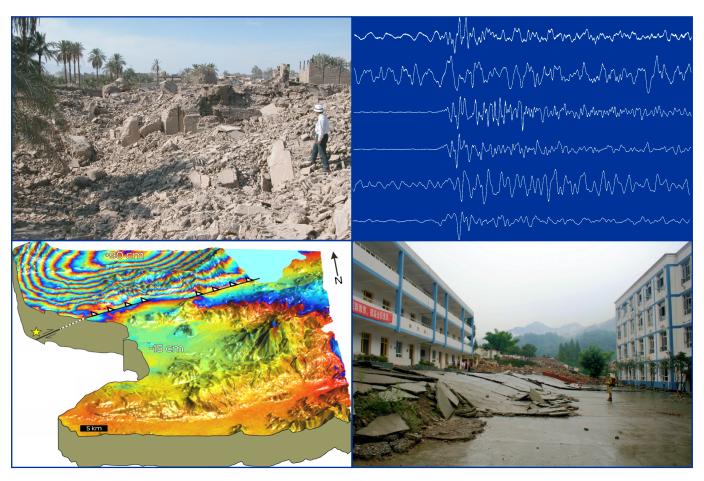






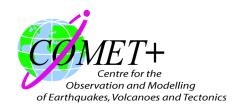
Earthquakes: from Mechanics to Mitigation



New Advances in Geophysics 2014

Geological Society, Burlington House, Piccadilly, London 13th & 14th February 2014

Please register at: http://tinyurl.com/eqs2014









Thursday 13th February 2014

09.30	Registration and Coffee		
10.00	Introduction		
1. Earthqu	ake Processes		
10.05	Emily Brodsky (University of California, Santa Cruz) Stress on faults		
10.50	Giulio di Toro (University of Padua) Frictional processes and earthquakes		
11.20	Sylvain Barbot (Earth Observatory of Singapore) Realistic forecasts of seismicity: lessons from 50 years of observations at Parkfield		
11.50	Yuri Fialko (University of California, San Diego) Evolution of fault zones: Integrating field and laboratory observations with numerical models		
12.20	Lunch		
2. Defining	the Hazard		
13.20	Jean-François Ritz (Geosciences Montpellier - CNRS/UM2) Determining the slip rate, the age and size of earthquakes along major active faults: examples from Mongolia and Bhutan		
13.50	Richard Walker (University of Oxford) Large magnitude earthquakes on slow-moving faults: examples from the history and prehistory of SE Kazakhstan		
14.20	Richard Walters (University of Leeds) How fast is strain accumulating across faults? Towards a global strain-rate map from InSAR and GPS		
14.50	John Elliott (University of Oxford) Seismic hazard before and after recent continental earthquakes		
15.20	Break		
3. Quantify	ring the Hazard 1		
15.50	Peter Stafford (Imperial College) Recent developments in empirical ground motion modelling		
16.20	Andreas Rietbrock (University of Liverpool) From weak to strong: How can weak motion data help to predict strong ground motion		
16.50	Greg Beroza (Stanford University) Validating ground motion simulations		
17.35	Wine and Posters		

Friday 14th February 2014

4.	Qua	ntifyii	ng the	Hazar	d 2
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09.00	Marco Pagani (Global Earthquake Model)
	Probabilistic seismic hazard: model building and hazard
	calculation from a GEM perspective

O9.45 Seth Stein (Northwestern University)

Assessing and mitigating earthquake hazards in the presence of deep uncertainty

10.30 Break

5. Earthquake Impacts

- 11.00 Ziggy Lubkowski (Arup)

 Contrasting the impact of earthquakes in developed and developing countries.
- 11.30 Emily So (University of Cambridge)

 Earthquake fatality estimation: bridging the physical and social sciences
- 12.00 David Alexander (University College London)
 Social, cultural and political aspects of earthquake disaster
 mitigation

12.30 Lunch

6. Mitigating Earthquake Hazard

- 3.30 Polat Gulkan (Çankaya University, Ankara)

 Istanbul at the threshold: Mitigating an expected earthquake
- 14.10 Ruben Boroschek (University of Chile, Santiago)

 Preparing for megaquakes at subduction zones: the Chilean infrastructure example
- 14.50 Eric Calais (École Normale Supérieure, Paris)
 Seismic risk reduction in the aftermath of the 2010 Haiti
 earthquake

15.30 Conclusion