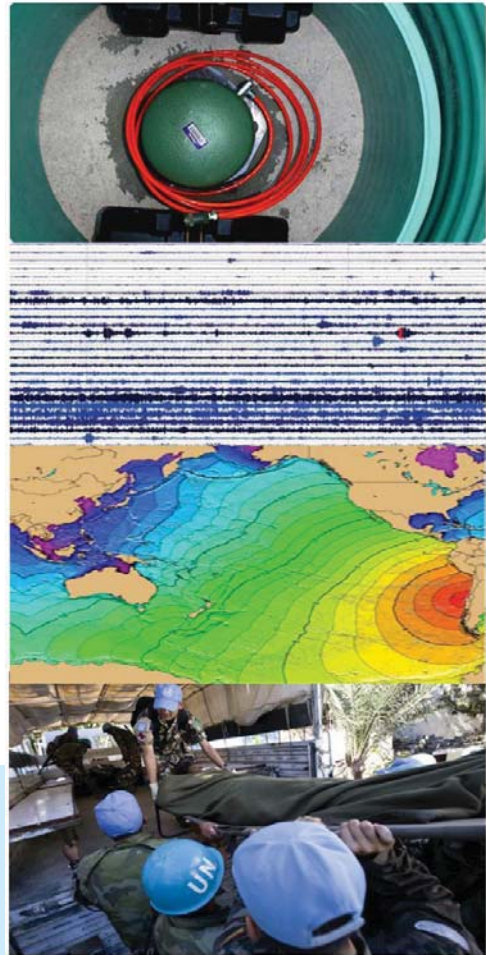




The 6th APRU Research Symposium on Multi-Hazards around the Pacific Rim

27-29 August, 2010
Beijing, China



Multi-disciplinary Approaches for Hazard Mitigation



Organized by Peking University



The Symposium Organizing Committee

Chair Dr. Qing-Hua Huang
Professor, Peking University

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Professor, Earthquake Research Institute, the University of Tokyo

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Professor, University of California, Davis

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Member Dr. Xiao-Fei Chen
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Photos courtesy (top to bottom): EarthScope, NSF; Bleick Heather & Cervelli Peter, AVO/USGS; NGDC/NOAA; AP Photo/United Nations, Logan Abassi

2010 APRU Research Symposium
Multi-Hazards around the Pacific Rim

Program for Friday, August 27, 2010

- 9:00-9:40 Registration**
- 9:40-10:00 Opening Ceremony (Chaired by Prof. Qinghua Huang and Prof. Yanbin Wang)**
- Welcome address (Prof. Yun-tai Chen, Academician, Honorary Dean, School of Earth and Space Sciences, Peking University)
- Welcome address (Ms. Margaret Leong, Director (Secretariat) and Treasurer, APRU)
- 10:00-10:40 Keynote Lecture: Emission, Fate and Respiration Exposure Risk of Polycyclic Aromatic Hydrocarbons in China**
Shu Tao, *College of Environmental Sciences, Peking University*
- 10:40-11:20 Strong Ground Motion and Source Process of Ms8.0 Wenchuan Earthquake of 12 May 2008**
Xiaofei Chen, *School of Earth and Space Sciences, University of Science and Technology of China*
- 11:20-11:40 Group Photo**
- 12:00-13:30 Lunch**
- 13:30-14:50 Session 1: Earthquake – Forecast, Monitoring and Early Warning (Chaired by Prof. John B Rundle and Prof. Yih-Min Wu)**
- 13:30-13:50 Earthquake Precursors: Activation or Quiescence, or Something Else?
John B Rundle, *Departments of Physics and Geology, University of California, Davis*
- 13:50-14:10 Magnitude Determination Using Strong Ground-Motion in Earthquake Early Warning: (I) Attenuation, (II) Covered areas
Yih-Min Wu, *Department of Geosciences, Taiwan University*
- 14:10-14:30 Discuss on ‘Did the Zipingpu Reservoir trigger the 2008 Wenchuan earthquake?’
Shiyong Zhou, *School of Earth and Space Sciences, Peking University*
- 14:30-14:50 A New Algorithm for Detection of Seismic Quiescence – Introduction of RTM Algorithm, a Modified RTL Algorithm for Seismicity Analysis
Toshiyasu Nagao, *Earthquake Prediction Research Center, Tokai University*
- 14:50-15:20 Break**
- 15:20-17:00 Session 2: Earthquake – What We Learned From Recent Great Earthquakes (Chaired by Prof. Xiaofei Chen and Prof. Jim Mori)**

- 15:20-15:40 Statistical Features for the Aftershocks of the 2008 Wenchuan, China Earthquake
Jim Mori, *Disaster Prevention Research Institute, Kyoto University*
- 15:40-16:00 Earthquake Prediction in China: Discussions after the 2008 Wenchuan Earthquake
Qifu Chen, *Institute of Earthquake Science, China Earthquake Administration*
- 16:00-16:20 Neotectonic Analysis and Future Seismic Hazard Assessments of Collisional Orogenic Belts around the Pacific Rim
J. Bruce H. Shyu, *Department of Geosciences, Taiwan University*
- 16:20-16:40 Energy Radiation from Recent Three Earthquakes with Similar Mw: The Implications of Strong Ground Motion
Lingyuan Meng, *Earth Science College, Graduate University of Chinese Academy of Sciences*
- 16:40-17:00 Lithospheric Structure of the North China from Combined Inversion of Ambient Noise and Surface Wave Recorded by Temporary and Permanent Seismic Arrays
Youcai Tang, *School of Earth and Space Sciences, Peking University*
- 17:00-17:20 An Insight from Fault Mechanics on Subduction-zone Seismicity
Toshihiko Shimamoto, *Institute of Geology, China Earthquake Administration*
- 17:20-17:40 Invitation Speech for the 2011 APRU Symposium (Prof. Jason Ingham, Department of Civil and Environmental Engineering, The University of Auckland)**
- 18:00-19:30 Dinner Reception**

Program for Saturday, August 28, 2010

- 9:00-10:20 Session 3: Tsunami, Earthquake and Volcanic Hazards (Chaired by Prof. Kenji Satake and Prof. Qiming Zeng)**
- 9:00-9:20 Tsunami from the February 2010 Chilean Earthquake on the Japanese Coast
Kenji Satake, *Earthquake Research Institute, The University of Tokyo*
- 9:20-9:40 Multi Mode SAR Interferometry Applications for Surveying Co-seismic Deformation
Qiming Zeng, *Institute of Remote Sensing and Geographical Information System, Peking University*
- 9:40-10:00 Co-seismic Deformation Field of the 2010 Yushu M7.1 Earthquake from InSAR
Zhou Huifang, *Institute of Structural Dynamics, China Earthquake Administration*
- 10:00-10:20 Permanent Scatterer Interferometry of Mayon Volcano, Albay, Philippines
Mahar. Lagmay, *National Institute of Geological Sciences, College of Science, University of the Philippines*
- 10:20-11:00 Break & Poster session**

- 11:00-11:20 Detailed Electromagnetic volcano-monitoring under the Japanese JICA/JST Project 2010-2014, Taal volcano, Philippines
Toshiyasu Nagao, *Earthquake Prediction Research Center, Tokai University*
- 11:20-11:40 Multi-disciplinary Research Platform for Disaster Management - Case study for Earthquake and Volcano Hazard in Indonesia
Megumi Sugimoto, *Earthquake Research Institute, The University of Tokyo*
- 11:40-12:00 2004 Tsunami on People's Livelihoods and the Effectiveness of Aid
Ali Rasheed, *School of Social Sciences Faculty of Applied Humanities, Auckland University of Technology*

12:00-13:30 Lunch

13:30-14:10 Session 4: Earthquake – Engineering Approach for Earthquake Disaster Mitigation (Chaired by Prof. Jason Ingham)

- 13:30-13:50 Detailed Seismic Assessment of Heritage Unreinforced Masonry Buildings with Flexible Timber Diaphragms
Jason Ingham, *Department of Civil and Environmental Engineering, The University of Auckland*
- 13:50-14:10 Vertical Earthquake Motion: A Missing Factor?
Jun Yang, *Department of Civil Engineering, The University of Hong Kong*

14:10-15:30 Session 5: Management of Disasters and Multi-disciplinary Approaches for Disaster Mitigation and Recovery (Chaired by Prof. Daojong Zha)

- 14:10-14:30 Exploiting the Benefits of a Natural Hazards as a Form of Adaptation: Examining Cases of Tropical Impacts on Physical Environments in the South Pacific Islands
James P. Terry, *Department of Geography, National University of Singapore*
- 14:30-14:50 Institutional Gaps of Natural Disaster Management: Case of Typhoon Morakot Incident in Taiwan
Jiin-Song Tsai, *Department of Civil Engineering, Cheng Kung University*
- 14:50-15:10 Recovering from the Recovery: Lessons and Questions for Resilient Development in Minority-Ethnic Settlements after Two Years of Post-Earthquake Reconstruction in Sichuan
Daniel Benjamin Abramson, *Department of Urban Planning and Design, University of Washington*
- 15:10-15:30 Assessment of Ecological Effect of Wenchuan Earth on Wildlife Habitat and Biodiversity
Dajun Wang, *School of Life Sciences, Peking University, Beijing, China*

15:30-15:50 Break

- 15:50-16:10 Mangrove Resilience to the 2004 Indian Ocean Tsunami: Evidence for Inter-ecosystem Facilitation on the Andaman Coast of Thailand
Nicholas Jachowski, *Department of Geography, National University of Singapore*

- 16:10-16:30 Causes of Landslides and Flashfloods after Three Successive Weather Disturbances affecting Quezon and Aurora Provinces, Philippines
Leonito A. Donoso, *Forestry Development Center, College of forestry and Natural Resources, University of the Philippines, Los Banos Colleges*
- 16:30-16:50 Comparisons of Psychological Symptoms between Professional and Volunteer Mental Health Workers Following the Typhoon Morakot in East Taiwan
Wei-Chih Hung, *Department of Psychiatry, Mackay Memorial Hospital*
- 16:50-17:10 Study and Practice on psychosocial support after May 12, 2008 Wenchuan Earthquake in China
Hong Ma, *The Sixth Hospital of Peking University, Beijing, China*
- 17:10-17:20 Geology of the Bataan Nuclear Power Plant (BNPP) Site
Mahar. Lagmay, *National Institute of Geological Sciences, College of Science, University of the Philippines*
- 17:20-17:30 Ground, Satellite and Numerical Simulation Study of the Tropical Storm Ondoy Floods
Mahar. Lagmay, *National Institute of Geological Sciences, College of Science, University of the Philippines*
- 17:30-17:50 Evaluation of Rehabilitation Effect of Board-house Rehabilitation Center in Guangyuan City, Sichuan Province
Gong Chen, *Institute of Population Research, Peking University*

17:50-18:00 Closing Ceremony

18:30-20:00 Banquet

Program for Sunday, August 29, 2010

8:00-18:00 Beijing City Tour (optional)

Poster Session

- P-01 Retrospective Investigation of Geophysical Data Possibly Associated with the Ms8.0 Wenchuan Earthquake
Qinghua Huang, *Department of Geophysics, School of Earth and Space Sciences, Peking University*
- P-02 Study on Strong Ground Motion of Ms.7.1 Yushu Earthquake of 14 of April 2010
Zhenguo Zhang, *School of Earth and Space Sciences, University of Science and Technology of China*
- P-03 Effect of Velocity Gradient on Seismic Ground Motion in 3D Sedimentary Basin
Yanbin Wang, *Department of Geophysics, School of Earth and Space Sciences, Peking University*
- P-04 Lessons Learnt of Post Tsunami Reconstruction - Experience of Maldives
Ali Rasheed, *Auckland University of Technology*
- P-05 Numerical Model for SES Selectivity of Izu Earthquake Swarm
Qinghua Huang, *Department of Geophysics, School of Earth and Space Sciences, Peking University*
- P-06 A Comparison of Sbas and Ps Insar for Measuring Surface Deformation Before the L'Aquila Earthquake
Bin Liu, *Institute of Engineering Mechanics, China Earthquake Administration*
- P-07 Ambient Noise Tomography of Northeastern Tibet
Wenyuan Fan, *Department of Geophysics, School of Earth and Space Sciences, Peking University*
- P-08 SKS Splitting Study of Northeastern Tibet
Haiyang Wang, *Department of Geophysics, School of Earth and Space Sciences, Peking University*