

INTERNATIONAL SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING



This paper was downloaded from the Online Library of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). The library is available here:

<https://www.issmge.org/publications/online-library>

This is an open-access database that archives thousands of papers published under the Auspices of the ISSMGE and maintained by the Innovation and Development Committee of ISSMGE.

Administrative Report: TC4- Earthquake Geotechnical Engineering

Compte rendue sur la CT-4

T. Kokusho

Department of Civil Engineering, Chuo University, Tokyo, Japan

H. Hazarika

Department of Architectural and Environment System, Akita Prefectural University, Japan

TERMS OF REFERENCE:

1. To promote the development of the state of the art and practice in earthquake geotechnical engineering and associated geo-hazards from technical and socio-economic viewpoints.
2. To exchange knowledge and information on geotechnical natural/man-made hazards associated with earthquakes that have occurred in recent years.
3. To develop or improve design methodologies of buildings and civil engineering structures by performance-based and probability-based approaches for mitigating geotechnical hazards associated with earthquakes.
4. To promote compilation and archiving of data and information on natural/man-made geotechnical hazards.

ACTIVITIES UNDERTAKEN IN 2006-2008

At the beginning, the name of the committee was modified as "Earthquake Geotechnical Engineering and Associated Problems" in order to cover multi-disciplinary issues including socio-economy. As one of the major activities toward the terms of reference, two big international conferences; 4thICEGE in Thessaloniki and IS-Tokyo2009 in Tsukuba, were held on burning issues of earthquake geotechnical engineering. Performance-Based Design has been one of the key issues throughout this term and a case history volume accommodating well-instrumented geotechnical and earthquake data of good qualities has been published from TC4, so that international geotechnical researchers can refer it as a benchmark for developing PBD methodologies. It has been agreed that the Conference on PBD will be held successively once in every 4 years considering the importance of this topic. The TC4 activities are listed as follows;

1. Meetings, workshops and conferences TC4 sponsored

- 4th International Conference on Earthquake Geotechnical Engineering (4ICEGE)
Venue: Thessaloniki, Greece
Dates: June 25-28, 2007
- TC4 meeting during 2007 Asian Region Conference on ISSMGE
Venue: Kolkata, India
Dates: December 9, 2007
- The 2nd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR08)

Venue: Nanjing, China

Dates: May 30 – June 2, 2008

- International Conference on Performance-Based Design in Earthquake Geotechnical Engineering - *from case history to practice* – (IS-Tokyo 2009)
June 15-17, Tsukuba, Japan
- Release of Case History Volume in Earthquake Geotechnical Engineering;
"Earthquake Geotechnical Case Histories for Performance-based Design" during IS-Tokyo2009.
- TC4 meeting during IS-Tokyo 2009
Venue: Tsukuba, Japan
Dates: June 15, 2009
- Satellite Conference & Technical Session of TC4 in the ISSMGE conference
October 2-3 2009, Alexandria, Egypt
- TC4 meeting during Satellite Conference at Alexandria

2. Meetings, workshops and conferences co-sponsored

- Geotechnical Earthquake Engineering Workshop, Christchurch, New Zealand
21-24 November, 2006
- International Geotechnical Symposium on Geotechnical Engineering for Disaster Prevention and Reduction, Sakhalin, Russia
July 25-27, 2007
- International Workshop on Earthquake Hazard and Mitigation (EHAM-2007)
Assam, India, December 7-8, 2007
- International Symposium on Geotechnical Engineering, Ground Improvement and Geosynthetics for Human Security and Environmental Preservation, Bangkok, Thailand, December 6-7, 2007
- Joint session of TC4-TC16 & ATC3 during the International Site Characterization Conference, Taiwan, April 3, 2008
- Meeting of TC4 during 14th World Conference on Earthquake Engineering (14WCEE), Beijing, China, October 14, 2008
- International Workshop on Geotechnical Hazards
Keelung, Taiwan, November 2-5, 2008
- The 3rd International Geotechnical Symposium (IGS2009) on Geotechnical Engineering for Disaster Prevention and Reduction
July 22-25, 2009, Harbin, China