

Preface

The 3rd International Symposium on Geotechnical Risk and Safety (ISGSR), which is held on June 2 and 3, 2011, at the *Oskar-von-Miller-Forum* and the *Technische Universität München* in Munich, Germany, is part of a series of conferences organised by a group of engineers and academics interested in geotechnical reliability, safety and risk. Previous conferences include LSD2000 (November 2000, Melbourne, Australia), IWS Kamakura (April, 2002, Tokyo and Kamakura, Japan), LSD2003 (June, 2003, Cambridge, USA), Georisk 2004 (November, 2004, Bangalore, India), Taipei2006 (November, 2006, Taipei) and the 1st and 2nd International Symposia on Geotechnical Risk and Safety (1st ISGSR, October 2007, Shanghai and 2nd ISGSR, June 2009, in Gifu, Japan). In addition, this group has organized technical sessions in many international and regional conferences from time to time.

The major themes of the symposium are:

- Risk assessment and management through codes and standards;
- Risk and reliability analysis of geotechnical structures;
- Risk assessment and management of natural geotechnical hazards;
- Practical applications and case studies.

The symposium in Munich is organised by

- *geotechnical safety network* GEOSNet;
- *Zentrum Geotechnik, Technische Universität München*;
- *German Federal Waterways Engineering and Research Institute* (BAW).

GEOSNet is a topic-specific international platform to facilitate and promote active interaction on topics related to geotechnical safety and risk among its members, particularly between researchers and practitioners. GEOSNet was formed at the conference in Taipei 2006 in view of the increasing interest and momentum to rationalize the treatment of risks in new design codes using reliability and other methods. As part of this activity, GEOSNet became the organizing body of the series of ISGSR conferences, of which the Munich symposium is the 3rd.

The symposium is supported by the

- Subcommittee *Geotechnical design* of CEN TC 250 *Structural Eurocodes*;
- European Technical Committee ETC 10 Evaluation of Eurocode 7;
- Joint Committee on Structural Safety, JCSS;
- TC 205 *Safety and Serviceability in Geotechnical Design*;
- TC 304 *Engineering Practice of Risk Assessment and Management*;
- German Federal Ministry of Transport, Building and Urban Development and
- Bayerischer Bauindustrieverband.

The symposium takes place under the auspices of the

- *International Society for Soil Mechanics and Geotechnical Engineering* (ISSMGE);
- *German Geotechnical Society* (DGGT).

The organizers greatly appreciate the support of the *Federal Waterways Engineering and Research Institute* (BAW), which financed these proceedings, as well as the support of *Technische Universität München* and *Bauindustrie Bayern*, which provided the conference venues.

As part of the ISGSR conferences, GEOSNet hosts the Wilson Tang Lecture in recognition of the seminal contributions of Professor Wilson Tang, who is one of the founding researchers in geotechnical reliability and risk. The lecture is intended to honour distinguished peers and their achievements in advancing the methods of geotechnical reliability and risk analysis. The Wilson Tang Lecture of this symposium is delivered by Professor Yusuke Honjo of Gifu University, who is one of the eminent researchers in this domain.

Finally, the organizers are grateful to all those who have helped and contributed to the organization of this event. The largest part of the credit for these proceedings goes to the authors and reviewers.

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