



ISSMGE TECHNICAL COMMITTEE ANNUAL REPORT

Date: May 18, 2011

Period covered by this report: October 2009 – May 2011

Prepared by: Kok-Kwang Phoon and Jianye Ching

Name of the Technical Committee: TC304 (Risk)
Chair: Kok-Kwang Phoon
Vice-Chair: Gordon Fenton
Secretary: Jianye Ching

Please also fill in the information sheet on page, and please append your Terms of References.
(Just refer to the ISSMGE website if the information can be found there).

1. Have you distributed the Terms of Reference to the TC members? YES NO
If not, please do so immediately.
2. Are any TC member not responsive? YES NO
If not, please name the persons not communicating so that ISSMGE can contact their national societies.

We have no current concerns about our TC membership.

3. Is your TC webpage on the ISSMGE website up to date? YES NO
If not, please describe the target date for the revision.
4. Please list the work ask(s) you assigned to TC members, and comment on progress and future plans. Include, where relevant, target deadline and deliverable(s) (table can be expanded).

Work task	Responsible/ deadline/deliverable	Progress	Future plans
Task Force 1: Interaction with industry and education (coordinated by Farrokh Nadim)	1. Email list of upcoming conferences and ask members for short course proposals (Farrokh Nadim) 2. Develop of a 2-day geotechnical risk management course (Martin van Staveren) 3. Gather teaching resources (Mark Jaksa) 4. Coordinate a short course with CISM (Vaughan Griffiths) 5. Compile a list of short courses in near future for posting on TC304	Work has started (Farrokh) Topics and course materials (slides and book) are ready to use for 2-day "Professional Geotechnical Risk Management Course" (Martin van Staveren)	The list will be discussed in the meeting planned in Atlanta on 26 June and finalized shortly afterwards (Farrokh) Making course models country-specific with interested members and give the course

	website (Jianye Ching)		in member countries are connected to conferences (in 2012) (Martin van Staveren)
Task Force 2: Compilation of guidelines and other technical resources (coordinated by Vaughan Griffiths)	<ol style="list-style-type: none"> 1. Collect relevant guidelines and risk-related international resources from industry, government and academe for TC304 website (Vaughan Griffiths): <ul style="list-style-type: none"> • Recommended reading list • General reading list 2. Bibliography database (Vaughan Griffiths) 	Bibliography list under compilation.	Status of list would be discussed during Atlanta meeting, 26 June.
Task Force 3: Coordination with broader risk community (Coordinated by Martin van Staveren)	<ol style="list-style-type: none"> 1. Translate practice guide on geotechnical risk management published by Deltares in Dutch to English for dissemination (Martin van Staveren) 2. Translate the generic risk management principles of ISO-31000 into practical geo-principles (Martin van Staveren, Lars Olsson) 	<p>Awaiting approval for budget allocation for the translation</p> <p>Is ongoing in the Dutch Geolmpuls Failure Cost Reduction Program</p>	<p>Translating the guide in English for dissemination in the geotechnical community (as soon as budget is provided)</p> <p>Publication of the geo-principles and the experiences with using them in a journal or conference paper (by 2012)</p>
Task Force 4: Communication/dissemination (Coordinated by Jianye Ching)	<ol style="list-style-type: none"> 1. Set up TC304 website and circulate URL to members (Jianye Ching) 2. Establish benchmark “tutorial” examples (Jianye Ching) 	TC304 website is hosted at Webpage: http://jyching.twbbs.org/issmge/tc304.htm	Work with ETC10 on “tutorial” examples
Task Force 5: Conference coordination (Coordinated by Ken Ho)	<ol style="list-style-type: none"> 1. Special GEOSNet/TC304 session at 17th 	<p>Events #1-#4 completed.</p> <p>Events #5-#7</p>	Future events being considered

	<p>Southeast Asian Geotechnical Conference, May 10-13, 2010 (Jianye Ching, KK Phoon)</p> <p>2. Collaborate with TC302 (Forensic Geotechnical Engineering) on International Symposium on Forensic Geotechnical Engineering, 14-15 Dec 2010, Indian Institute of Technology Bombay, Mumbai, India.</p> <p>3. Special TC304 session at 14th Asian Regional Conference, 23-27 May 2011 (Limin Zhang, Yu Wang)</p> <p>4. Collaborate with TC303 (Coastal and River Disaster Mitigation and Rehabilitation) on 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR 2011), Semarang, Indonesia, 4-6 May 2011</p> <p>5. Collaborate with GEOSNet on 3rd International Symposium on Geotechnical Safety and Risk (ISGSR 2011), Munich, 2011</p> <p>6. Mini-symposium "Recent advances in geotechnical risk and reliability", 11th</p>	<p>ongoing.</p>	<p>#8-#9</p>
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	<p>International Conference on Applications of Statistics and Probability in Soil and Structural Engineering (ICASP11), 1-4 August 2011, ETH Zurich, Switzerland.</p> <p>7. ASCE Georisk 2011 “Risk assessment and management in geoen지니어ing” Atlanta, GA, June 26 - 28, 2011</p> <p>8. TC304 Workshop in conjunction with the 2nd National Symposium on risk management and Insurance Research in civil Engineering in Beijing, 2012 (Hongwei Huang)</p> <p>9. TC304 Geotechnical symposium on “difficulties and challenges in landslide risk mitigation and management in hilly areas, particularly in Himalayas” India, 2012.</p>		
<p>Task Force 6: Risk analysis and software (Coordinated by Lars Olsson)</p>	<ol style="list-style-type: none"> 1. Coordinate development of risk analysis procedures (Lars Olsson) 2. Develop framework for Risk Breakdown Structure (Lars Olsson) 3. Compile list of software including a price estimate for TC304 website (Lars Olsson, Jianye Ching) 	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>	<p>Make a draft RBS “frame” for comments by TC304 members</p> <p>Create database based on web-based survey within ISSMGE</p>

5. Please list the conferences and workshops and other activities you have held or plan to hold.

Past activities

- i. Special TC304/GEOSNET session in 17th Southeast Asian Geotechnical Conference (17th SEAGC, 10-13 May 2010, Taipei, Taiwan)
Organizers: J Ching, JR Chen & KK Phoon
- ii. International Symposium on Forensic Geotechnical Engineering (14-15 Dec 2010, Mumbai, India)
Supported by TC304
Collaborate with TC302 (Forensic Geotechnical Engineering)
- iii. 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR 2011, 4-6 May 2011, Semarang, Indonesia)
Supported by TC304
Collaborate with TC202, TC203, TC211, TC213, TC302, and TC303

Ongoing activities

- iv. Special TC304 session in 14th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (14ARC, 23-27 May 2011, Hong Kong)
Organizers: Limin Zhang and Yu Wang
- v. 3rd International Symposium on Geotechnical Safety and Risk (3rd ISGSR, 2-3 June 2011, Munich, Germany)
Supported by TC304
 - Keynote lecture by KK Phoon, J Ching & JR Chen on “How Reliable Are Reliability-Based Multiple Factor Code Formats?”
 - Joint TC304/TC205 panel on "The basis for partial factors - probability or experience?"
 - Short course on “Reliability Analysis and Design in Geotechnical Engineering”, 1 June 2011, Munich, Germany (Instructors: KK Phoon)
- vi. Georisk 2011, ASCE (26-28 June 2011, Atlanta, USA)
 - Joint Committee Meeting between Geo-Institute Technical Committee on Risk Assessment and Management (GI-RAM) and ISSMGE TC304, 26 June 2011.
 - Keynote lecturers from TC304:
 - John Christian & Greg Baecher “Unresolved Problems in Geotechnical Risk and Reliability”
 - Suzanne Lacasse & Farrokh Nadim “Learning to Live with Geohazards: From Research to Practice”
 - Sessions organizers from TC304:
 - Quantitative risk analysis for embankments, dams and slopes (organiser: Limin Zhang) – 6 papers
 - Limit state design in geotechnical engineering (organizer: Yu Wang) – 8 papers



Short name: **Risk** (TC304) - Terms of Reference - to be approved

Webpage: <http://140.112.12.21/issmge/tc304.htm>

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TC Secretary: JY Ching (SEAGS) (jyching@gmail.com)

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Paul Cools (Netherlands)
P. Ganne (Belgium)
Anthony TC Goh (Singapore)
Vaughn Griffiths (USA)
Ken Ho (Hong Kong)
Hongwei Huang (China)
Mark Jaksa (Australia)
Leena Korkiala-Tanttu (Finland)
Kishor Kumar (India)
Dianqing Li (China)
B.K. Low (Singapore)
Dagang Lu (China)
Farrokh Nadim (Norway)
Laszlo Nagy (Hungary)
Shin-ichi Nishimura (Japan)
Ali Noorzad (Iran)
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Nick Sartain (UK)
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Abdul-Hamid Soubra (France)
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Pavlos Tyrologou (Greece)
Martin van Staveren (Netherlands)
Yu Wang (Hong Kong)
Limin Zhang (Hong Kong)