

## Hot news

### News report on the 16<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (16ARC)

The 16ARC is to be held on October 14-18, 2019, in Taipei, Taiwan. The main theme of the 16ARC is “*Geotechnique for Sustainable Development and Emerging Market Regions*”. Chinese Taipei Geotechnical Society (CTGS) is the organizer of the 16ARC under the auspices of the ISSMGE. For the conference program, 2-day pre-conference short courses, 4-day in-house plenary/parallel/poster sessions and exhibitions, and a 1-day technical tour are planned. The conference will provide a nice platform for knowledge sharing and exchanging of the geo-technologies facilitated in the Asian regions.

#### Important Dates of 16ARC:

- Abstract Deadline - 2018.03.31 (for ATC/TC session planners, abstracts are due on 2018.05.31)
- Notification of abstract acceptance - 2018.06.30
- Full paper submission deadline - 2018.10.01
- Full paper review - 2018.10.01-2018.12.01
- Final paper received - 2019.02.015
- Notice of oral/poster presentation after overview - 2019.03.15

#### Conference speakers

Lecture	Speakers	Affiliation	Country/Society	Lecture
Keynote I	Prof. Charles W.W. Ng	The Hong Kong University of Science and Technology	ISSMGE	Debris-Barrier Interaction: Physical and Numerical Modelling
Keynote II	Prof. Mark Randolph	The University of Western Australia	Australia	Geotechnical Considerations Associated with Offshore Renewable Energy Installations
Keynote III	Prof. Ikuo Towhata	Japanese Geotechnical Society	Japan	Construction Engineer Should Play More Major Roles in Sustainability of Urban Environment
Keynote IV	Prof. Jianye Ching	National Taiwan University	Chinese Taipei GS	Role of Generic Soil Database in Site-Specific Decision Making
Mentoring Lecture	Dr. Za-Chieh Moh	Moh and Associates	Chinese Taipei GS	Integrated Solutions for Geotechnical Projects
Invited Lecture I	Prof. Eun Chul Shin	Incheon National University	Korea	Stability Analysis of Soil bag Retaining Wall under Seismic Loading
Invited Lecture II	Prof. Meei-Ling Lin	National Taiwan University	Chinese Taipei GS	Long Term Effects of Landslides Induced by Catastrophic Events
Invited Lecture III	Prof. Jian-Min Zhang	Tsinghua University	China	to be announced
Invited Lecture IV	Prof. Harianto Rahardjo	Nanyang Technological University	Singapore	Unsaturated Soil Mechanics for Sustainable Urban Development
Invited Lecture V	Prof. Deepankar Choudhury	Indian Institute of Technology at Bombay	India	Sustainable Foundation Solutions for High-Rise structures under Earthquake Conditions - Theory to Practice
Theme Lecture I	Prof. Askar Zhussupbekov	L.N. Gumilyov Eurasian National University	Kazakhstan	Geotechnical Considerations of Piling Construction and Testing in Problematical Soils of Kazakhstan
Theme Lecture II	Dr. Noppadol Phienwej	Asian Institute of Technology /SEAGS	Thailand	Geotechnical Challenges in the Bangkok MRTA Underground Structures Construction
Theme Lecture III	Prof. Masyhur Irsyam	Indonesian Society for Geotechnical Engineering	Indonesia	Development of Seismic Source and Hazard Maps Indonesia 2017
Theme Lecture IV	Ir. Dr. Tan Yean Chin	G & P Professional	Malaysia	to be announced
Theme Lecture V	to be announced		Iran	to be announced

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**Pre-conference short course program** is scheduled with five subjects, including: 1. *Statistical estimation of soil properties* (supported by TC304), 2. *State of the art in geomechanics and associated numerical simulation*, 3. *Deep excavation and ground improvement in urban area*, 4. *Modern monitoring for geotechnical engineering*, and 5. *Deep-seated catastrophic landslides-mechanisms, precursors, and hazard evaluation* (supported by ATC3). The short courses will be offered at no charge to two representatives from each of the Asian societies. For others who are interested to participate, a minimal fee will be collected. Detailed information of the short courses and their registration will be available soon at the conference website.

**Young Geotechnical Engineer Session (YGES)** is planned for young scholars/engineers/students who are under the age of 36 (35 or younger by December 31, 2019). The submitted papers should not be presented for any other sessions, and they need registration. Presenters of selected papers will give oral presentations at the YGE session(s) which are scheduled in the first two days of the 16ARC. Among the YGES participants who are nominated by Asian Societies as the candidates of **Young Member Presidential Group (YMPG)**, a select group of candidates will give oral presentations and compete for the official member of YMPG. The selected two official members of YMPG will deliver **ISSMGE Bright Spark Lecture** at 16ARC.

**Technical Tours:** On the fifth day (Oct. 18), technical tours are offered. Participants can choose among three tours which are all in the region of Northern Taiwan. The tours will cover engineering projects that have been accomplished or are still under construction. Geotechnical works of deep excavation, tunneling, slope engineering, cofferdam foundation, earth dam, and airport construction will be visited. Minimal charge will be collected to control the number of participants.

**Social Program: Welcome Reception and Gala Dinner** are scheduled respectively on Monday (Oct. 14) and Wednesday (Oct. 16) evening. Welcome reception is open to all conference participants who have successfully registered (including the invitees). Gala dinner is offered with a minimal charge to control the number of attendees. The International Advisory Board (IAB) members of the 16ARC, invited lecturers and two representatives from each of the Asian Societies who attend the Asian Council Meeting on Tuesday (Oct. 15) will be invited to a private dinner hosted by CTGS after the council meeting.

**Registration:** Registration fee includes welcome reception, conference program book, proceedings in flash disc, free entries to plenary/parallel/poster sessions and exhibitions, souvenirs, refreshment and lunch during the 4-day in-house program.

Registration Type and fee	
Author (ISSMGE Member)	US\$ 450
Author (Non-ISSMGE Member)	US\$ 500
Early-Bird (ISSMGE Member)	US\$ 500
Early-Bird (Non-ISSMGE Member)	US\$ 550
Regular (ISSMGE Member)	US\$ 550
Regular (Non-ISSMGE Member)	US\$ 600
Student (w/ valid student ID)	US\$ 250
On-site	Regular/Student fee + US\$100

NOTE: Please note that the registration fees above are only for reference, the formal fee will be available soon on the conference website

**Accommodation:** Rates of the hotels (3~5 stars) in Taipei are in the range of US\$60-US\$400 (single room per night, with breakfast and wifi internet). Detailed hotel information will be available soon on the conference website.

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**Spouse program:** information will be provided by the contracted travel agency through the 16ARC Secretariat. 1/2-day or 1-day city tours in the vicinity of Taipei, or 2- to 4-day tours to other astonishing scenic spots (e.g., Sun-Moon Lake, Kentin National Park, Taroko National Park) in Taiwan are available. To sign up for the tours in the spouse program, conference attendees must first register their spouses/guests during registration. Rational tour cost will be charged to the registrants and must be paid in full before the conference. More detailed information will be available soon at the conference site.

**Sponsorship and Exhibitions:** Please visit <http://www.16arc.org/Sponsorship&Exhibition.html> for more details.

**Contact information for conference secretariat:**

Email ([Secretariat@16arc.org](mailto:Secretariat@16arc.org))

Website (<http://www.16arc.org>).



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### Second Edition of Geoguide 4 – Guide to Cavern Engineering

The Geotechnical Engineering Office of the HKSAR Government has recently published the **Geoguide 4 - Guide to Cavern Engineering (Second Edition)**, which is free for download via the link [[http://www.cedd.gov.hk/eng/publications/geo/geo\\_g4.html](http://www.cedd.gov.hk/eng/publications/geo/geo_g4.html)].

This Geoguide was first published in 1992 and served the city well in the early days of cavern development. Over the years various elements of best practice in Cavern Engineering and Rock Mechanics have changed and needed to be updated. The second edition has pulled together various key references, experience and publications that are in typical use in Hong Kong and other countries, which are practiced by regulators, designers and practitioners in the art of tunnel and underground rock cavern development. It consolidates some of the most relevant technological advances and experience gained over the years and now provides an updated reference of good practice for rock cavern development. The updated edition has also been expanded to cover other associated elements not covered in the previous Geoguide such as how to plan caverns and consider the long term impacts and performance of the underground spaces and support elements formed.

