



International Society for Soil Mechanics and Geotechnical Engineering

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Conference reports

The 2nd JTC1 Workshop on Triggering and Propagation of Rapid Flow-like Landslides, Hong Kong

The Second JTC1 Workshop 2018 on Triggering and Propagation of Rapid Flow-like Landslides was jointly organised by Joint Technical Committee on Natural Slopes and Landslides (JTC1) of the Federation of International Geo-engineering Societies (FedIGS), which is an alliance of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), the International Society for Rock Mechanics and Rock Engineering (ISRM), the International Association for Engineering Geology (IAEG) and the International Geosynthetics Society (IGS), together with the Hong Kong University of Science and Technology (HKUST), the Hong Kong Geotechnical Society (HKGS), and the Geotechnical Division of the Hong Kong Institution of Engineers (HKIE). The workshop was held from 3 to 5 December 2018 in Hong Kong at the HKUST Jockey Club Institute for Advanced Study (IAS). More than 120 delegates from over 20 countries participated at the workshop and benefited from the exchange of knowledge and experience.

Opening remarks were delivered by Prof. Charles W. W. Ng (President of ISSMGE) Prof. Norikazu Shimizu (Vice-President of ISRM), Prof. Luciano Picarelli (Chairman of JTC1) and Prof. Ken Ho (Chairman of Organising Committee). Afterwards, Prof. Ken Ho delivered certificates of appreciation to the sponsors of the event and formally commenced the workshop.

Conference reports

The 2nd JTC1 Workshop on Triggering and Propagation of Rapid Flow-like Landslides, Hong Kong (Con't)

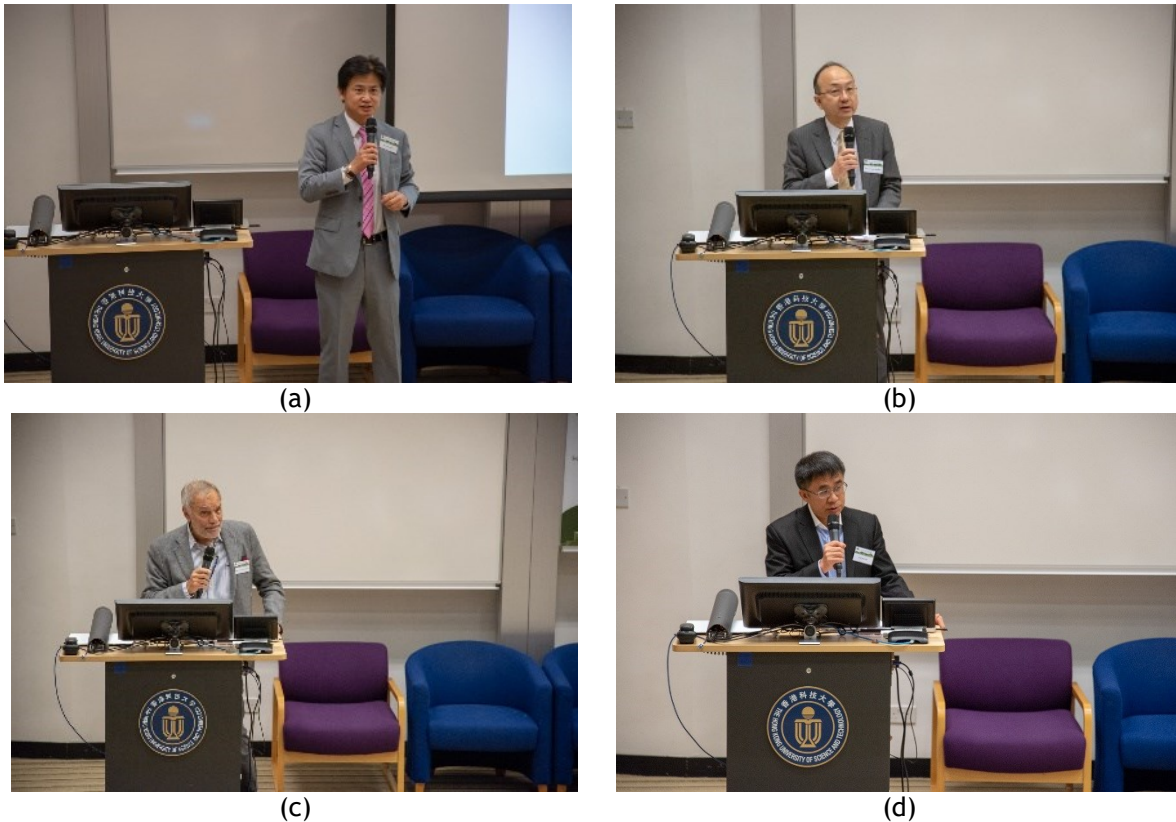


Figure 1. Opening remarks: (a) Prof. Charles W. W. Ng; (b) Prof. Norikazu Shimizu; (c) Prof. Luciano Picarelli and (d) Prof. Ken Ho



Figure 2. Presentation of certificates of appreciation to sponsors (Sponsors included: VSL Intrafor Hong Kong, Fugro (Hong Kong) Limited, Geotech Engineering Limited, Mannings (Asia) Consultants Limited, Tai Kam Construction Engineering Company Limited, Dix Construction & Transportation Limited, Dywidag-Systems International Far East Limited, Gammon Construction Limited, Bachy Soletanche Group Limited, China Geo-Engineering Corporation, ARUP, MTR Corporation)

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The 2nd JTC1 Workshop on Triggering and Propagation of Rapid Flow-like Landslides, Hong Kong (Con't)

Five themes were selected for the parallel plenary sessions, including *landslide analysis and numerical methods; landslide mechanisms, experiments and monitoring; landslide propagation and mitigation; numerical analysis and landslide risk mitigation and experiments; case studies and monitoring.*



Figure 3. Hungr Oration delivered by Prof. Scott McDougall



Figure 4. Hutchinson Lecture delivered by Dr Nùria Pinyol

All the presented papers have been compiled and published in electronic proceedings including the Hungr Oration, the Hutchinson Lecture, four Keynote Addresses and eight theme Lectures. Prof. Scott McDougall delivered the Hungr Oration in remembrance of late Prof. Oldrich Hungr, entitled, “*A practical approach to landslide science: The legacy of Professor Oldrich Hungr*”. Dr Nùria Pinyol delivered the 2nd Hutchinson Lecture entitled “*Physics of Landslides*”. In addition, the keynote addresses were given by:

- Prof. Alexander Puzrin from ETH Zurich, Switzerland [*Effects of sedimentation and shearing on the triggering of flow-like submarine landslides*]
- Prof. Manuel Pastor from Universidad Politècnica de Madrid, Spain [*Modelling of propagation of fast landslides*]
- Mr. John Whittall from BGC Engineering, Canada [*Mines: a landslide laboratory*]
- Prof. Ken Ho from Geotechnical Engineering Office of Hong Kong SAR Government [*Advances in debris flow risk mitigation practice in Hong Kong*]



(a)



(b)



(c)



(d)

Figure 5. Keynote addresses: (a) Prof. Alexander Puzrin; (b) Prof. Manuel Pastor; (c) Mr. John Whittall; (d) Prof. Ken Ho

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The 2nd JTC1 Workshop on Triggering and Propagation of Rapid Flow-like Landslides, Hong Kong (Con't)

The theme lectures were delivered by young, emerging talents as follows:

- Dr Jean-Sébastien L'heureux
- Dr Ching Hung
- Dr Clarence Edward Choi
- Prof. Sabatino Cuomo
- Dr Anja Dufresne
- Dr Vidya Bhushan Maji
- Dr Shintaro Nohara
- Dr Dominique Turmel

Parallel plenary sessions were organised on Day 1 and Day 3 of the workshop and all the sessions went smoothly thanks to the excellent work by the moderators, which included Dr Suzanne Lacasse, Prof. Chan-Young Yune, Prof. Dave Chan, Prof. Dave Petley, Prof. Serge Leroueil, Dr Brian McArdeall and Dr Farrokh Nadim. Additionally, fruitful discussions were initiated by the moderators in each session.



Figure 6. Group photo of workshop attendees

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Day 2 of the Workshop started with a benchmarking exercise on landslide runout analysis. The session featured an overview by the review sub-committee, comprising Prof. Manuel Pastor, Dr Julian Kwan, Prof. Scott McDougall and Prof. Kenichi Soga, followed by presentations from participants of the exercise and lastly a fruitful panel discussion. The afternoon session of Day 2 included technical visits to HKUST centrifuge facility, debris-resisting barriers at Yu Tung Road and the Headquarters of the Geotechnical Engineering Office (GEO).



Figure 7. Technical visits: (a) HKUST centrifuge facility; (b) Yu Tung Road barriers; (c) GEO

Breaks during the Workshop and gala dinner provided ample opportunities for the participants to discuss and network.



Figure 8. Coffee break



Figure 9. Gala dinner

Prof. Ken Ho and Prof. Luciano Picarelli delivered closing remarks for the workshop on Day 3. They both stressed the high standards of the presentations delivered at the Workshop. Prof. Ken Ho highlighted Hong Kong's key role in enhancing flow-like landslide hazard mitigation practice and also emphasised the need for further research on prediction tools especially with the threat posed by a changing climate.



(a)



(b)

Figure 10. Closing remarks: (a) Prof. Ken Ho; (b) Prof. Luciano Picarelli

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For further details of the Workshop, visit the website:

http://www.hkges.org/JTC1_2nd/index.html

The papers presented at the Workshop can be accessed here:



http://www.hkges.org/JTC1_2nd/paper.html