

UNSAT2018

3rd – 5th August 2018

The 7th International Conference on Unsaturated Soils

Organised by: The Hong Kong University of Science and Technology (HKUST)



Campus of HKUST

INTRODUCTION

On behalf of TC106 and Hong Kong Geotechnical Society, the HKUST is pleased to invite you to attend the 7th International Conference on Unsaturated Soils (UNSAT2018) in August 2018. This conference will provide an excellent opportunity for worldwide academics, engineers, scientists and government officials to exchange the latest developments in the research and application of unsaturated soil mechanics.

We are delighted to announce that UNSAT2018 will collaborate with **TC215 – Environmental Geotechnics**, **TC206 – Interactive Geotechnical Design** and **TC308 – Energy Geotechnics** for organizing mini-symposia or workshops.

BLIGHT LECTURER



Delwyn Fredlund
Golder Associates

KEYNOTE SPEAKERS

(To be continued ...)



Eduardo Alonso
UPC, Spain



Pierre Delage
ENPC, France

GENERAL REPORTERS

(To be continued ...)



David Masin
CU, Czech Rep.



Fernando Marinho
USP, Brazil

SPECIAL INVITED LECTURERS

(To be continued ...)



Daischao Sheng
U. Newcastle, Australia



Harianto Rahardjo
NTU, Singapore



Abdelmalek Bouazza
Monash U., Australia



Lidija Zdravkovic
Imperial College, UK



Antonio Gens
UPC, Spain



Lyesse Laloui
EPFL, Swizerland



John McCartney
UCSD, USA



Marcelo Sanchez
Texas AMU, USA



Bernardo Caicedo
U. de Los Andes,
Colombia



Ning Lu
Colorado Sch. of
Mines, USA

Supported by:

TC106 Unsaturated Soils of ISSMGE, Hong Kong Geotechnical Society, Geotechnical Division of Hong Kong Institution of Engineers, Geotechnical Engineering Office of CEDD City University of Hong Kong, Hong Kong Polytechnic University, The University of Hong Kong, Chinese Institution of Soil Mechanics and Geotechnical Engineering, Hong Kong Tourism Board

INTERNATIONAL ADVISORY COMMITTEE

- **Alonso, Eduardo**, Spain
- **Cui, Yu-jun**, France
- **Delage, Pierre**, France
- **Fredlund, Del.**, Canada
- **Masrouri, Farimah**, France
- **Gens, Antonio**, Spain
- **Houston, Sandra**, USA
- **Imre, Emo**, Hungary
- **Jommi, Cristina**, Netherlands
- **Laloui, Lyesse**, Switzerland
- **Mancuso, Claudio**, Italy
- **Marinho, Fernando**, Brazil
- **Masin, David**, Czech Republic
- **Miller, Gerald A.**, USA
- **Rahardjo, Harianto**, Singapore
- **Schanz, Tom**, Germany
- **Sheng Daichao**, Australia
- **Springman, Sarah**, Switzerland
- **Toll, David**, UK
- **Vanapalli, Sai**, Canada
- **Wheeler, Simon**, UK

CONFERENCE THEMES

❑ **Fundamental soil behaviour**

- Micro- and macro-structure
- Water retention
- Stress-strain behaviour
- Multi-physic couplings (e.g., temperature, chemistry, biology etc.)
- Cyclic/dynamic behaviour
- Behaviour of multiphase soils, soft and hard rocks

❑ **New equipment and testing methods**

- Advanced and new testing equipment
- Sensors for suction/moisture measurements
- In-situ/field testing

❑ **Geotechnical engineering problems**

- Infrastructural developments such as earth and rockfill dams, roads and embankments
- Stability of natural and man-made soil slopes
- Foundations in unsaturated soils
- Mining engineering

❑ **Energy and environmental issues**

- Bio-engineering and vegetation effects
- Climate change, soil-atmospheric interaction
- Geo-environment such as capillary barriers, nuclear waste disposal and CO₂ sequestration
- Geo-energy such as energy piles, gas hydrates

❑ **Modelling**

- Constitutive modelling
- Physical modelling including centrifuge
- Numerical modelling and analysis

ORGANISING COMMITTEE

❑ **Conference Chair**

- Ng, Charles

❑ **Committee**

- Chan, Terence
- Chen, Rui
- Cheuk, Johnny
- Cheung, Tony
- Chiu, Abraham
- Chung, Edwin
- Coop, Matthew
- Leung, Rupert
- Pun, W.K.
- Sun, H.W.
- Tham, George
- Wang, Gang
- Wang, Yu-Hsing
- Wang, Jui-Pin

❑ **Technical Secretary**

- Leung, Anthony

- Xu, Jie
- Yin, Jian-Hua
- Yong, Patrick
- Yu, Ringo
- Zhan, Tony Liangtong
- Zhang, Limin
- Zhao, Jidong
- Zhou, Chao

FORMAT OF CONFERENCE

The conference will be featured by:

- **Blight lecture, keynote lectures, general reports and special lectures**
- **Joint TC mini-symposia/workshops**
- **Elevator pitch sessions and poster presentation**

UNSAT2018 is currently calling for **exhibitions**. Please contact the **Technical Secretary** for information.

CALL FOR ABSTRACTS

UNSAT2018 is now calling for Abstracts. A template of an abstract can be downloaded from unsat2018.org

FINAL abstract submission deadline:

15th April 2017

Deadline for full paper submission:

30th September 2017

ACCOMMODATION

Wide-range hotels nearby the conference venue
Conference suggested hotels. For details, click

- [Crown Plaza](#) (< 5 km from campus)
- [Holiday Inn](#) (< 5 km from campus)
- [HKUST Conf. Lodge](#) (within campus)

Coach services will be provided between hotels and campus.

CONTACT US

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Tel: (44) 01382 84390;
Fax: (44) 01382 84389

Ms Shirley Tse

Administrative Secretary
Tel: (852) 2358-0216;
Fax: (852) 2243-0040

E-mail: unsat2018@ust.hk

VISITS

- Technical site visits to natural and man-made slopes in Hong Kong will be arranged, in collaboration with the **Geotechnical Engineering Office**.
- Local & mainland sight visits can be arranged upon request. Please contact the **Admin. Secretary**.



Slope monitoring site, Tung Chung, HK



Landfill test site, Xiaping, Shenzhen, China