

# UNSAT2018

## The 7<sup>th</sup> International Conference on Unsaturated Soils

3<sup>rd</sup> – 5<sup>th</sup> August 2018

The Hong Kong University of Science and Technology (HKUST)



### Organised by:

The Hong Kong University of Science and Technology (HKUST)



### Supported by:

- TC106 Unsaturated Soils of ISSMGE
- Hong Kong Geotechnical Society
- Geotechnical Division of Hong Kong Institution of Engineers
- Geotechnical Engineering Office
- 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

## INTRODUCTION

Following the success of the last conference held in Sydney, Australia in 2014, the HKUST is pleased to invite you to attend the 7<sup>th</sup> International Conference on Unsaturated Soils (UNSAT2018) in August 2018. This conference will cover a broad range of themes and provide an excellent opportunity for worldwide academics, engineers, scientists, government officials and planners to present and exchange the latest developments in the research and application of unsaturated soil mechanics.

The *2<sup>nd</sup> Blight Lecture* will be delivered by **Professor Delwyn Fredlund** at UNSAT2018.

## CALL FOR ABSTRACTS

UNSAT2018 is now calling for Abstracts. The broad nature of UNSAT2018 presents a multitude of opportunities for authors to present papers within the themes set out on the right.

A template of an abstract can be downloaded from [unsat2018.org](http://unsat2018.org). Abstracts should be deposited to the online submission system uploaded.

### **Abstract submission deadline:**

1<sup>st</sup> November 2016

### **Notification of acceptance:**

2<sup>nd</sup> January 2017

## 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

### □ *Modelling*

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

### □ *Geotechnical engineering problems*

- Infrastructural developments such as earth and rockfill dams, roads, embankments and railways
- Natural and man-made hazards such as stability of fill slopes and rainfall-induced landslides
- Foundations in unsaturated soils
- Mining engineering

### □ *Energy and environmental issues*

- Bio-engineering
- Vegetation effects
- Climate change, soil-atmospheric interaction
- Geo-environment such as capillary barriers, nuclear waste disposal and CO<sub>2</sub> sequestration
- Geo-energy such as energy piles, gas hydrates



## ORGANISING COMMITTEE

### □ Conference Chair

- Ng, Charles

### □ Technical Secretary

- Leung, Anthony

### □ Committee

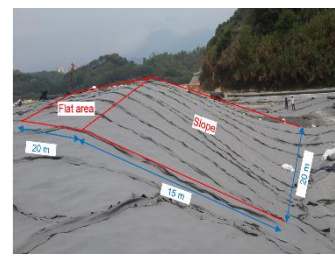
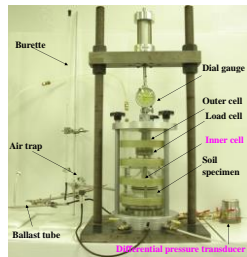
- Chan, Terence
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- Pun, W.K.
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- Wang, Gang
- Wang, Yu-Hsing
- Wang, Jui-Pin
- Xu, Jie
- Yin, Jian-Hua
- Yong, Patrick
- Yu, Ringo
- Zhan, Tony Liangtong
- Zhang, Limin
- Zhao, Jidong
- Zhou, Chao

## THE CONFERENCE VENUE



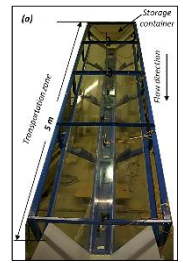
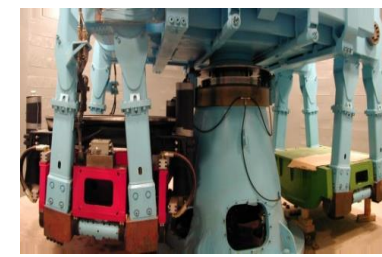
Overview of HKUST campus

Lecture theater



## INTERNATIONAL ADVISORY COMMITTEE

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## ABOUT HONG KONG



## CONTACT US

**Dr Anthony Leung** (Technical Secretary)

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](mailto:unsat2018@ust.hk)