

The HKIE Geotechnical Division 45<sup>th</sup> Annual Seminar 2025

Advancing Geotechnical Practice :

# Sustainable Solutions to Land & Infrastructure Developments

9 May 2025 (Friday)

9am - 5pm

Meeting Room S221

Hong Kong Convention and Exhibition Centre, Wanchai  
& Online



# Sustainable Solutions to Land & Infrastructure Developments

## Theme

In recent years, Hong Kong has embarked on a new transformative phase of development, marked by the creation of new lands and new development areas to build more housing and vital infrastructure projects like rail links and road networks. Projects, such as the development of the Northern Metropolis, the development of Kau Yi Chau Artificial Islands, and other initiatives outlined in the Major Transport Infrastructure Development Blueprint 2023, are either underway, in the planning stage, or on the drawing board. These endeavours not only present immense opportunities for the engineering and construction sectors, but also bring forth challenges including the timely completion of land formation to bolster housing supplies and the imperative for sustainable, resilient urban development amid evolving climate changes.

Geotechnical engineers assume a pivotal role in ensuring the successful execution and sustainability of these projects. It is important that we continuously explore innovative approaches to elevate the standards of excellence in geotechnical practice. The time has come for us to propel geotechnical engineering to new heights by embracing innovation and cutting-edge technologies. This seminar aims to provide a platform for practitioners and academics to share ideas and showcase their inventive and sustainable solutions for land and infrastructure developments, with the goal of advancing geotechnical practice.

## Keynote Speakers



### Professor CHU Jian

President's Chair in Civil Engineering  
Chair of School of Civil &  
Environmental Engineering  
Nanyang Technological University  
Singapore

**3D Geological Modelling  
& Its Engineering  
Applications**

Professor Chu Jian is President's Chair in Civil Engineering, Chair of School of Civil and Environmental Engineering, and founding Director of the Centre for Urban Solutions at Nanyang Technological University (NTU), Singapore. He is a Fellow of the Academy of Engineering Singapore.

Prof Chu worked for Iowa State University, USA, from 2011 to 2014 as professor and James M. Hoover Chair in Geotechnical Engineering. Currently, he is the Chair for Technical Committee TC217 on Land Reclamation under ISSMGE, a member of TC211 on Soil Improvement, and a past president of the Geotechnical Society of Singapore. He is an Editor for a high impact journal Acta Geotechnica, Editor-in-Chief for a new journal Biogeotechnics, and Associate Editor for ASCE Journal of Materials in Civil Engineering.

Professor Chu has received several awards and delivered more than 80 keynote or invited lectures at international conferences. He is also a consultant for several large-scale construction projects in Singapore and the region.



### Ir Dr Julian S H KWAN

Assistant Director (Technical)  
Civil Engineering & Development  
Department  
The Government of the HKSAR

**Our Geotechnics in  
Sustainable Development :  
Then, Now and Future**

Ir Dr Julian Kwan is currently the Assistant Director (Technical) of the Civil Engineering and Development Department (CEDD), Government of the Hong Kong Special Administrative Region, China. Apart from leading the Technical Branch of the department, he is in charge of steering the adoption of innovation and technology as well as technical development to enhance the quality and productivity of CEDD's service and project delivery.

Over the past 20 years, Ir Dr Kwan has contributed in numerous applied geotechnical research as part of his work in the Geotechnical Engineering Office (GEO), CEDD. He held various positions in the GEO including Chief Geotechnical Engineer/Standards and Testing to steer technical advancement projects for enhancing the design and construction of landslide mitigation works, as well as Chief Geotechnical Engineer/Planning to oversee the cavern development strategy and natural terrain landslide risk management.

## Topics Relevant to the Theme

1. Innovative geotechnical design and applications
2. Digitalisation and advanced smart construction technologies
3. Geotechnical solutions to enhancing sustainability and resilience against extreme weather conditions
4. Sustainable reclamation design and construction
5. Land and site formation
6. Methods of ground improvement
7. Geotechnical aspects of infrastructure development
8. Excavation and lateral support system design and construction
9. Advanced testing methods, physical modelling, numerical simulation
10. Tunnelling and cavern

## CPD Hours

**6** Hours

## Event Mode

### Hybrid Seminar

Both online and physical seats are available. The physical seats application will be accepted on a first-come, first-served basis.

## Registration Fee

### Early Bird

**\$780**

( In-person / Online )

Applicable for registrations made on or before 1 April 2025

### Normal Registration

**\$880**

( In-person / Online )

### Student / Retiree

**\$300**

( In-person / Online )

## Payment Methods

We accept both online and offline payment methods, including

1. Bank Transfer
2. Cheque
3. Octopus
4. Payme
5. Stripe

Reserve your seat now at our conference website  
**[hkiegdas2025.com](https://hkiegdas2025.com)**

Registration fees are non-refundable in the event of cancellations; however, seat replacement is permitted.

## Enquiries

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Event Secretariat

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