

Fundamentals and First Principles:

# Bridging Theory & Practice in Geotechnical Engineering

## Event Programme

8:30 am	<b>Registration</b>
9:00 am	<b>Welcome Speech</b> <i>Ir Terence YAU, Chairman, HKIE Geotechnical Division</i>
<b>Session 1: Keynote Presentation</b>	
9:10 am	<b><i>Ir Prof Philip Chung</i></b> <i>Adjunct Professor Department of Earth &amp; Planetary Science University of Hong Kong</i>
9:40 am	<b><i>Ir Dr Victor K S LI</i></b> <i>Past Chairman of HKIE Geotechnical Division</i>
10:10 am	<b>Souvenir Presentation</b>
10:15 am	<b>Break</b>
<b>Session 2: Geotechnical Paper Award</b>	
10:40 am	<u>Advancements in Design and Construction Practice for Deep Excavation</u> <b><i>Ir J.C. LIU</i></b> <i>Geotechnical Engineer, GEO</i>
10:55 am	<u>Experimental investigation of Major Rocks in Hong Kong as Potential Sensible Thermal Energy Storage Medium</u> <b><i>Mr Liu Zihan</i></b> <i>PhD student, The University of Hong Kong</i>
<b>Session 3: From Theory to Practice: Fundamentals and First Principles</b>	
11:10 am	<u>Recent Advancement in the Estimation of Design Debris Volume for Natural Terrain Hazard Mitigation Measures</u> <b><i>Ir Ivan LI</i></b> , Senior Geotechnical Engineer, GEO, CEDD
11:25 am	<u>Three-Dimensional Analysis of Stress Interaction between Closely-Spaced Bored Piles in Rock</u> <b><i>Ir James ZJ RUAN</i></b> , Geotechnical Engineer, GEO, CEDD

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11:40 am	<b><u>Fundamentals and First Principles of Point Load Test in Rock Mechanics</u></b> <i>Prof. Louis N.Y. WONG, Professor &amp; Associate Head, Department of Earth and Planetary Sciences, The University of Hong Kong</i>
11:55 am	<b>Panel Discussion, Q&amp;A Session, Souvenir Presentation</b>
12:25 am	<b>Lunch</b>
<b>Session 4: From Design to Delivery: Construction and Case Applications</b>	
2:00 pm	<b><u>Exploring a Cost-Effective and Sustainable Design Solution for Rock Tunnels in Hong Kong – the Rock Reinforcement Approach (RRA) and Norwegian Method of Tunnelling (NMT)</u></b> <i>Ir Franklin To, Associate, Geotechnical, Hong Kong, AECOM Asia Company Ltd.</i>
2:15 pm	<b><u>Comparative Study on In-Line Orthogonal and Staggered Arrangements of DCM Columns: Stress Distribution, Deformation Characteristics of Two Cases</u></b> <i>Dr. WANG Mingmin, Senior Professional Engineer of Chinese Society of Engineers</i>
2:30 pm	<b><u>Design of SFRC Segmental Tunnel Linings: A Practical Framework for Wider Implementation in Hong Kong</u></b> <i>Ir Alex Leung, Associate, Asia Infrastructure Solutions Limited</i>
2:45 pm	<b>Panel Discussion, Q&amp;A Session, Souvenir Presentation</b>
3:15 pm	<b>Break</b>
<b>Session 5: From Insight to Innovation: Emerging Technologies</b>	
3:45 pm	<b><u>The Application of Multi-Temporal Unmanned Aerial Vehicle (UAV) Imagery for Automated Landslide Identification</u></b> <i>Ir Leslie Tsang, Senior Geotechnical Engineer, GEO, CEDD</i>

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4:00 pm	<b><u>Subsurface Diagnosis Method for Undergrounds Using Distributed Acoustic Sensing with Ambient Noise Tomography.</u></b> <i>Mr ZHANG Tian-Yu, Ph.D. Candidate &amp; Southern University of Science and Technology, Shenzhen, China</i>
4:15 pm	<b><u>Predicting Tunnel Overbreak in Drill and Blast Operations Using Random Forest Regression: A Case Study in Hong Kong Granitic Rock</u></b> <i>Ir Jason Chin, MHKIE</i>
4:30 pm	<b><u>AI-Enabled Slope Upgrading Works: From Static Archives to Operational Intelligence</u></b> <i>Ms Ina Wong, Director of Buildwave Innovation Limited</i>
4:45 pm	<b>Panel Discussion, Q&amp;A Session, Souvenir Presentation</b>
5:15 pm	<b>Closing Remarks</b> <i>Ir Kenneth Lai, Chairman of The Organising Committee - The HKIE Geotechnical Division 46th Annual Seminar 2026</i>