

Advancing Geotechnical Practice :

Sustainable Solutions to Land & Infrastructure Developments

Event Programme

8:30 am	Registration
9:00 am	Welcome Speech <i>Ir Dr S W Lee, Chairman, HKIE Geotechnical Division</i>
Session 1: Keynote Presentation Session Chair: Ir Prof Warren DOU	
9:10 am	<u>3D Geological Modelling and Its Engineering Applications</u> Prof CHU Jian <i>President's Chair in Civil Engineering, Chair, School of Civil & Environmental Engineering, Nanyang Technological University, Singapore</i>
9:40 am	<u>Our Geotechnics in Sustainable Development: Then, Now and Future</u> Ir Dr Julian S H KWAN <i>Assistant Director (Technical), Civil Engineering and Development Department, Government of the HKSAR, China</i>
10:10 am	Souvenir Presentation
10:15 am	Break
Session 2: Geotechnical Control and Underground Construction Session Chair: Prof Limin ZHANG	
10:35 am	<u>The Application of GEO Publication No. 1/2023 to a deep excavation in Hong Kong</u> Mr Dennis T S HO , Principal Engineer, Lambeth Associates Limited Ms Denise Y L YEUNG , Senior Engineer, Lambeth Associates Limited
10:50 am	<u>Enhancing Tunnel and Cavern Designs through Seismic Tomography and Numerical Ground Information Modelling (GIM) of Rock Mass Quality Data</u> Mr Alexander AL-NUAIMI , Associate Technical Director (Geologist), AtkinsRéalis Asia Limited, Hong Kong, China
11:05 am	<u>Application of Precast SFRC Tunnel Segment Lining in HK and its Benefit</u> Mr Terry C W MA , Technical Director, AECOM Asia Company Limited Ms Ruby S P CHAN , Engineering Manager, Bouygues Construction Australia
11:20 am	<u>Engineering Geological and Geotechnical Challenges of Lin Ma Hang Lead Mine Revitalisation – A Unique Community-based Educational Mining Heritage Project</u> Mr Xavier TANG , Geologist, Meinhardt Infrastructure and Environment Limited
11:35 am	Panel Discussion, Q&A Session, Souvenir Presentation
12:10 pm	Lunch

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Session 3: Advances in Foundation Engineering for Infrastructure Development Session Chair: Ir Terence YAU	
1:45 pm	<u>Trial Piles and Foundation Design in Meta-sedimentary Rocks</u> <i>Ir Sylvia S W CHIK, Geotechnical Engineer, Geotechnical Engineering Office, Civil Engineering and Development Department</i>
2:00 pm	<u>Evaluation of RMR for Meta-Sedimentary Rocks in Hong Kong: Challenges and Potential Solutions</u> <i>Ms Maggie H Y SUEN, Technical Director, Geotechnical, AECOM Asia Company Limited</i>
2:15 pm	<u>Full-scale Pile Load Tests using Osterberg Cells in Meta-sedimentary Rock</u> <i>Ir Andrew WONG, Senior Engineer, Geotechnics & Maritime, Ove Arup and Partners Hong Kong Limited</i>
2:30 pm	<u>Development of Three-Dimensional Geotechnical Models for Territorial and Infrastructural Development in Hong Kong</u> <i>Ir Richard C M HO, Senior Geotechnical Engineer, Geotechnical Engineering Office, Civil Engineering and Development Department</i>
2:45 pm	Panel Discussion, Q&A Session, Souvenir Presentation
3:20 pm	Break
Session 4: Frontiers in Geotechnical Research and Practice Session Chair: Ir Thomas HUI	
3:40 pm	<u>Can the Potential of Hong Kong Rocks be Harnessed for Effective Thermal Energy Storage?</u> <i>Prof. Louis N Y WONG, Professor & Associate Head, Department of Earth Sciences, The University of Hong Kong</i>
3:55 pm	<u>High-Resolution Shallow Structure Constrained by Ambient Noise S-wave Tomography Using Dense Linear Arrays—a Case Study in Northern Hong Kong</u> <i>Dr Qi ZHAO, Assistant Professor, Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University</i>
4:10 pm	<u>The Redundancy of Systematic Rock Bolts in Cavern Construction</u> <i>Dr Alan K L KWONG, Senior Resident Engineer (Geotechnical), Binnies Hong Kong Limited; Adjunct Professor, The University of Hong Kong</i>
4:25 pm	<u>Multiphysics and Multiscale Modeling of Bouldery Debris Flow Interactions with Baffles and Slit Dam</u> <i>Mr Terry H Y LEUNG, MPhil, Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology</i>
4:40 pm	Panel Discussion, Q&A Session, Souvenir Presentation
5:15 pm	Closing Remarks <i>Ir Prof Warren Dou, Chairman of The Organising Committee - The HKIE Geotechnical Division 45th Annual Seminar 2025</i>