

THE IEM-CIE-HKIE TRIPARTITE SEMINAR 2022 ON

"RESILIENT AND SUSTAINABLE SOLUTIONS FOR GEOTECHNICAL ENGINEERING"

BEM APPROVED CPD/PDP: 7 REF. NO.: IEM22/HQ/408/S(H)

**11th NOVEMBER 2022
FRIDAY
9AM - 5PM**

VENUE : VIRTUAL PLATFORM

PRESENTERS:

Ir. Dr Choo Chung Siung, IEM

Ir. Lau Joe Jiunn, IEM

Ir. Ashton Hong Boon Khang, IEM

Ir. Frankie Cheah Peng Leong, IEM

Dr. I-Chou HU, CIE

Mr. Yan-Jhih LIN, CIE

C. S, Chang, CIE

Ir. Henry Cheung, HKIE

Ir. Alvin K.M. Lam, HKIE

Ir K.T. Hung, HKIE

Registration Fee (Subject to 6% SST)

	Physical	Virtual
IEM Students Members	RM 150	RM 80
IEM Members	RM 300	RM 150
Non IEM Members	RM 500	RM 250

Register online | www.myiem.org.my / sitiaisyah@iem.org.my

SYNOPSIS

The IEM-CIE-HKIE Tripartite Seminar aims to create a venue for interactive discussions and sharing of experience in multi-discipline engineering among Chinese Institute of Engineers (CIE, Taiwan), Hong Kong Institution of Engineers (HKIE), and The Institution of Engineers, Malaysia (IEM). The seminar is hosted in turn among the three professional institutions. This year, IEM will be hosting the One Day IEM-CIE-HKIE Tripartite Seminar with the theme "Resilient and Sustainable Solutions for Geotechnical Engineering". Geotechnical structures such as foundations, slopes, retaining structures, embankments, and underground works are essential for built environment infrastructures. It is inevitable to integrate sustainability and resilient solutions in geotechnical engineering to reduce the adverse environmental impact and enhancing social and economic value to the society.

SPEAKERS' PROFILE

Ir. Dr Choo Chung Siung obtained his Bachelor of Engineering in Civil Engineering (1st Class Honours) in 2010 from Swinburne University of Technology (Sarawak). In 2010, he subsequently pursued his Ph.D. studies in the field of geotechnical engineering, and sustainable construction geo-materials through collaborations between the Swinburne Sarawak Research Centre for Sustainable Technologies and industrial partners

Ir. Frankie is a professional engineer with more than 15 years of experience in the design of large rail infrastructure projects especially across Asia region. Graduated with B. Eng (Hons) from University Malaysia Sabah in 2004 and also obtained M.Sc. in Civil (Specialised Geotechnical Eng) from Nanyang Technological University, Singapore in 2012.

Dr. I-Chou Hu currently is a Deputy Chief Engineer of Geotechnical Engineering Dept., Moh and Associates, Inc. Obtained his diploma from National Taipei Institute of Technology, Taiwan in 1988 and his bachelor degree from National Taiwan Institute of Technology, Taiwan in 1990, before pursuing Master Degree from National Chung-Hsing University, Taiwan in 1994 and his PhD from Department of Construction Engineering, National Taiwan University of Science & Technology, Taiwan in 2011.

Ir Alvin Lam is currently a Director, the East Asia Skill Leader of Ground Engineering and the Registered Geotechnical Engineer (RGE) in Arup. With over 22 years of working experience in managing large-scale infrastructure and building projects in Hong Kong and other East Asia regions, he has been taking a leading role in various aspects of geotechnical works including ground investigation planning, engineering study, pile study, foundation design, site formation design, slope assessment, deep basement excavation and site supervision.

Ir. Lau Joe Jiunn graduated with Bachelor of Civil Engineering (Hons) from UPM in 2015 with First Class Honor. Currently working with Tensar International Limited as Design Manager.

Ir. HONG Boon Khang, Ashton graduated with BEng (Civil), University Putra Malaysia in 2010 is an experienced geotechnical engineer with 12 years of experience in the design and construction of major geotechnical works for civil, building and infrastructure projects.

Mr. Lin Yan-Jhih graduated from National Taiwan University, Taiwan, in B.S., Civil Engineering in 2008. before pursuing his study in M.E., Geotechnical Engineering in 2010. Currently working as Geotechnical Engineer in Geotechnical Engineering Department at Sinotech Engineering Consultants, Ltd.

Mr. Chang graduated in B.S., from National Cheng Kung University Taiwan in 1987 and M.S. from National Taiwan University of Science and Technology 2004. Currently working as Deputy Manager at CECI Co., Ltd.

Ir. Henry began his career as a geotechnical engineering graduate in Geotechnical Engineering Office after graduating from the Hong Kong University of Science and Technology in 2002. He became a Chartered Civil Engineer in 2006 and he is also a registered professional engineer in the geotechnical discipline.

Ir. KT is currently Chief Civil Engineer of Hongkong Electric Co., Ltd. and is a Registered Structural Engineer under the Buildings Ordinance of Hong Kong. He has been involved in the infrastructure development for the power industry of Hong Kong over 30 years, which includes various coal and gas fired power generating units and ancillary facilities. KT handles a wide spectrum of civil engineering works including foundations, superstructures, deep excavations, reclamations and offshore engineering.

TENTATIVE AGENDA

TIME	PROGRAMME
8.30 AM - 9.00 AM	REGISTRATION
9.00 AM - 10.00 AM	Ir Dr Choo Chung Siung (IEM) - Pipe jacking in eccentric highly weathered geology – Challenges, innovative solutions and an AI future
10.00 AM - 10.15 AM	Morning Tea Break
10.15 AM - 11.15 AM	Ir. Lau Joe Jiunn (IEM) Sustainable Working Platform Solution for Wind Energy Development in Vietnam
11.15 AM - 12.15 PM	Ir. Hong Boon Khang, Ashton (IEM) - Topographic Mapping and Geological Rock Discontinuity Characterization by Terrestrial Lidar and Aerial Photogrammetry on Landslide Slopes
12.15 PM - 12.45 PM	Ir. Frankie Cheah (IEM) - Induced Ground Deformation Due to Adjacent Deep Excavations on Existing Building using Finite Element Analysis with Advanced Soil Model in Mixed Ground Conditions
12.45 PM - 13.15 PM	Ir. Henry Cheung (HKIE) - Deep Cement Mixing –The Experience in Tung Chung East Reclamation and Challenges Ahead
13.15 PM - 14.00 PM	LUNCH
14.00 PM - 14.40PM	I-Chou HU (CIE) - Application of Life Cycle Thinking in Foundation Design – an Example of New Taipei City MRT Sanying Line
14.40 PM - 15.20PM	Yan-Jhih LIN (CIE) - Sustainability of Shihmen Reservoir by Desilting Tunnel in Taiwan
15.20 PM - 15.30 PM	AFTERNOON TEA BREAK
15.30 PM - 16.10 PM	C. S, CHANG (CIE) - The Reconstruction Challenge of Minbaklu Bridge and Mountain Roads under the Impact of Extreme Climate Events
16.10 PM - 17.10 PM	Ir. Alvin Lam (HKIE) - A New Digital-based Approach to Automate and Optimize Geotechnical Design
17.10 PM - 18.10 PM	Ir K.T. Hung (HKIE) - A critical review of the current practice of design and construction of offshore foundations in Hong Kong