REGISTRATION FORM

IEM-CIE-HKIE TRIPARTITE SEMINAR
4th September 2018
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Website: www.myiem.org.my

Name(s)	Mobile No.	Membership No. / Grade	Fees (RM)
	Total Amount Payable		

Company:_____

Address:_____

_____

Mobile:_____Tel(O):_____Fax:_____

E-mail:_____
(Please write clearly as the Confirmation & Update will be sent via email & SMS to participants)

Contact Person:_____ Designation:_____

Signature:_____ Date:_____

PAYMENT DETAILS

☐ Cash RM_____
☐ Cheque no. _____ for the amount of RM _____
(non-refundable) and made payable to "**THE INSTITUTION OF ENGINEERS, MALAYSIA**" and crossed '**A/C Payee Only".**

DATA PROTECTION ACT

I have read and understand the IEM's Personal Data Protection Notice published on IEM's website at http://www.myiem.org.my and I agree to IEM's use and processing of my personal data as set out in the said notice.

Important Note:
IEM members are required to **renew** their membership before registration & produce their membership cards for CPD scanning at the start and end of the Seminar.

Terms & Conditions

- ✓ For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via Maybank2u –Personal Saving & Personal Current; Credit Card - Visa/Master].
- ✓ Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- ✓ FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full.
- ✓ Fee paid is not refundable. Registration fee includes lecture notes, refreshment.
- ✓ The Organizing Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

IEM-CIE-HKIE TRIPARTITE SEMINAR ON "Geotechnical Challenges in Infrastructures and Transportation Projects"

Date/Day: 4th September 2018, Tuesday
Time: 8.00 am – 6.00 pm
Speakers: Er. Poh Seng Tiok, Chung-Ren Chou, Mr. Derek Kwok, Ir. Frankie Cheah, Tsai Yuan-Yao, Ir. Alan Lai, Ir. Dr Hisham Mohamad, Chia-Pin Wu, Dr Lee Siew-Wei, Ir. Soo Wai Yee, Stuart Millis, and Dr Boon Chia Weng

Venue: Pulse Grande Hotel, Putrajaya, Malaysia

REGISTRATION FEE (GST IS 0% AFTER 1ST JUNE 2018):

REGISTRATION FEES (EXCLUDING GST):		
Grade	**Normal Fee (by fax & email)**	**Online Fee (Log-in IEM Website)**
STUDENT MEMBERS FROM IEM/CIE/HKIE:	RM 230.00	RM 180.00
IEM MEMBERS:	RM 350.00	RM 300.00
NON IEM MEMBERS:	RM 700.00	RM 600.00

Closing Date: 25th August 2018

BEM Approved CPD/PDP Hours: 7
Ref. No.: IEM18/HQ/251/C

ABOUT THE SEMINAR

The IEM-CIE-HKIE Tripartite Seminar aims to create a venue for interactive discussions and sharing of experience in multi-discipline engineering among The Institution of Engineers, Malaysia (IEM), Chinese Institute of Engineers (CIE, Taiwan) and Hong Kong Institution of Engineers (HKIE). The Seminar is hosted in turn among the three professional institutions. This year, the IEM Geotechnical Engineering Technical Division (GETD) will be hosting the One-Day IEM-CIE-HKIE Tripartite Seminar with the theme "Geotechnical Forensic Engineering and Case Histories". A total of nine papers with three papers from each professional institution will be presented.

BIODATA OF SPEAKERS

1. Special Lecture - Design Management of Single Largest Underground Construction Contract in Malaysia - A Client's Prespective Ground (Er. Poh Seng Tiok, IEM)

Er. Poh Seng Tiok has more than 20 years' experience in large scale mass transit, railway design and construction projects in Singapore, Hong Kong, Malaysia and other parts of Asia. Currently, he is the Planning and Design Director for Mass Rapid Transit Corporation (MRTC) in Malaysia, implementing the MRT projects in Kuala Lumpur. He manages the MRTC design group covering disciplines such as Architectural, Civil & Structural, Alignment, Geotechnical & Tunnels, Interface Coordination, Digital Engineering - BIM/GIS, Programme & Planning, Transport Planning, Land Survey and Development Building Control. He leads the multi-disciplinary team in supporting the implementation of the KVMRT Line 1 of 51km railway as well as KVMRT Line 2 with 52.2km of railway. Concurrently, he also leads in the Engineering Feasibility and Reference Design phase of the upcomming 40km KVMRT Line 3, which is a circle line connecting all the radial MRT lines and other forms of public transport. Prior to joining MRTC, he held senior positions in international Consultancy firms involving in major metro projects in Singapore and Hong Kong. Before 2008, Seng Tiok worked in the Singapore Land Transport Authority (LTA) and was involved in almost all the major railway projects in Singapore such as Down Town Line Stage 1, Circle Line stage 1 to 5 and North East Line.

2. Geotechnical Challenges and Countermeasures in Mixed Ground – An Example in Taipei MRT Project (Chung-Ren Chou, CIE)

Mr. Chou earned his B.S. at Chung-Yuan Christian University in 1992 and M.S. degrees from Civil Engineering Department at University of Texas in 1995. From 1996 to 1998, he worked as a tunnel engineer at Taiwan Area National Expressway Engineering Bureau and was assigned to supervise the construction works of Hsueh-shan tunnel of National Freeway No. 5. Since 1998, Mr. Chou became as a geotechnical engineer in the Geotechnical Engineering Department of Moh and Associates, Inc. Mr. Chou has more than 17 years geotechnical experience in planning, design, and construction implementation. Since 1998, Mr. Chou jointed MAA Group as a geotechnical engineer. Mr. Chou was in charge of the optimum design assessment of pile foundation for Taipei 101, being the first project at MAA. Mr. Chou has more than 20 years geotechnical and risk management experience in planning, design, and construction implementation as well as he is also an Associate Value Specialist (AVS) in Value Engineering. Mr. Chou has been involving in MRT projects either detailed design consultant or construction consultant. Mr. Chou has dedicated a keen research interest in areas of geotechnical, pile foundation, deep excavation, shield tunnel, soil improvement, and slope protection. Mr. Chou is an experienced geotechnical engineer who has published more than 36 papers in technical journals and conference proceedings.

3. TBM Bored Tunnels in Marble, (Derek Kwok, HKIE)

Derek is a Corporate Member of HKIE in Civil and Geotechnical Discipline. He has over 27 years experiences in geotechnical engineering and specialized in tunneling including drill and blast tunnels and TBM tunnels. He was responsible for Lantau and Airport Railway, Quarry Bay Relief Works, Tseung Kwan O Extensions, Ma On Shan Rails and Express Rail Link. Derek is currently the Engineering Manager – Geotechnical of MTR Corporation Limited of Hong Kong.

4. Finite Element Analysis of a Deep Excavation in Kenny Hill Formation with consideration of Small Strain Stiffness (Frankie Cheah, Delegate from The Institution of Engineers, Malaysia (IEM))

Frankie Cheah has over more than 14 years of experience in large rail infrastructure projects which include the exposure in geotechnical, civil & structural engineering for both Malaysia & Singapore region. His experience covers deep foundation, underground deep excavations and earth retaining structures, for both top down and bottom up construction in both Malaysia and Singapore region. Graduated in Civil Engineering in 2004 from University Malaysia Sabah (UMS) and Master in Civil Engineering Specialize in Geotechnical Engineering from Nanyang Technological University, Singapore in 2012.

5. Safety Assessment of MRT Tunnel under Construction and Operation Loading of Taxiway (Tsai, Yuan-Yao, Delegate from Chinese Institusion of Engineers (CIE)

Mr. Tsai has More than 15 years of professional experience in geotechnical and tunnel engineering related works, particularly in underground metro. Key project experience includes Jakarta Metro Rail, Taipei Metro, Kaohsiung Metro, Delhi Metro, Kaohsiung LRT, Taoyuan International Airport Link. He obtained his Bachelor of Science in Civil Engineering from NTU Taiwan in 1998 and Master of Science (Civil Engineering), NTUST, Taiwan in year 2000. He is a Registered Taiwan professional geotechnical engineer and specialized in design and analysis of various underground structures, such as bored tunnels, retaining walls, and pile foundations. Not just that, he also has strong background in geotechnical FEM analysis, ground behavior prediction and instrument interpretation.

6. Practical ways to assign AAA limits for the temporary works in Infrastructure and Transportation Projects, Ir Alan Lai, Delegate from Hong Kong Institusion of Engineers (HKIE)

Graduated from Hong Kong Polytechnic University in BEng (Civil Engineering) in 1994, Ir. Alan Lai has over 23 years of experiences in geotechnical field in Hong Kong and oversea. His has been working for projects for the Government, Airport Authority, private developers and MTR. He has been acting as the team leader, designer and supervisor for the MTR projects, site formation works, deep excavation works (30m), foundation works including foundation in the site with Marble (Yuen Long, Ma On Shan and Tung Chung), settlement assessment for over 23 years. He also has oversea experiences which include design for the site formation, reclamation, deep excavation and foundation works. He was the geotechnical design team leader for the West Kowloon Terminus development, West Kowloon Cultural District Development and the Third Runway Concourse Development of Airport Authority. He is now working for KVMRT Line 2 as the Geotechnical Leader of Lead Design Consultant

7. Case Studies of Instrumented Pile Load Tests with Distributed Optical Fibre Sensor as Part of KVMRT in Limestone and Kenny Hill Formation (Ir. Dr Hisham bin Mohamad)

Ir Dr Hisham is currently the Deputy Chair of Civil & Environmental Engineering Department, Universiti Teknologi PETRONAS. Dr Hisham obtained his Bachelor's Degree in Civil Engineering (as best student with First Class Honours) from Universiti Teknologi Malaysia (UTM). He was awarded scholarships by the Malaysian government agencies to pursue Master's degree in Soil Mechanics & Environmental Geotechnics at Imperial College, London and Doctoral degree in Geotechnical Engineering at University of Cambridge, which he successfully completed in 2004 and 2008, respectively. Dr Hisham specializes in the area of Geotechnical Engineering and is an expert in fiber-optic distributed sensing. Some of his notable involvements of construction monitoring projects using innovative fiber-optic sensing include monitoring tunnel deformation at London King's Cross and Singapore's Mass Rapid Transport (MRT) Circle Line. In 2013, Dr. Hisham joined Geotechnics Division, Ministry of Mobility and Public Works in Belgium for a year and was responsible to establish an optical fiber online monitoring system for construction project involving ground excavation of the world's largest shipping lock in Antwerp. In 2017, Dr Hisham secured a RM1 million research fund in tunneling which is funded by MMC-Gamuda KVMRT and commissioned by Technology Depository Agency (TDA).

8. The slope stability analysis and improvement at Taiwan highway 8 sec. 63k (Chia-Pin Wu, Delegate from Chinese Institusion of Engineers (CIE)

Dr. Wu possesses 8-year experience as a geotechnical engineer. Obtained Master of Science in Civil Engineering from NCU, Taiwan and got his PhD from the same university in 2009. He is currently a Senior Engineer in Sinotech Engineering Consultants and has been involved in some of the slope engineering in Taiwan such as road slope design in Taichung mountains, stability evaluation of dam abutment and ridge around reservoirs in Liyutan, Yongheshan, Hushan, Wushe, Deji, sun moon lake etc. He also actively participated in Taiwan Geotechnical Society (TGS) and Chinese Institute of Civil and Hydraulic Engineering since 2012.

9. Load transfer mechanism of embankment supported on deep mixed columns (Dr. LEE Siew-Wei, (HKIE)

Dr LEE is a qualified civil and geotechnical engineer with experience in academic research. In his 17 years' professional experience, he has involved in the assessment and design of various aspects of civil and geotechnical works, site supervision, project management and insurance claim/expert witness works. He is Chairman of Association of Geotechnical & Geo-environmental Specialists (HK), a committee member of HKIE Geotechnical Division, and an Editorial Board member of ICE (UK) Geotechnical Research Journal, a reviewer for several ICE (UK) journals on geotechnical engineering, an invited lecturer of PLAXIS courses in Asia. He has published to international journals and conferences on various geotechnical topics including deep excavation, reclamation and tunneling.

10. The Application of Deep Soil Mixing Using Ground Cutter-Soil-Mix Technique to Excavations in Various Urban Projects: Design Concepts and Numerical Simulations (Ir. Soo Wai Yee, IEM)

Ir. Soo Wai Yee has over 16 years of experience in design management, project management and construction supervision, specialising in geotechnical projects throughout all phases from site investigation planning and interpretation to detailed design of tunnelling and earth retaining systems. Graduated from University of Malaya in B. Eng Civil Engineering in 2002, she is also experienced in structural design for high-rise buildings and liquid retaining structures such as high-level water reservoirs and ground reservoirs. She has worked with key clients in Malaysia and Singapore on a broad range of major infrastructure projects including reclamation, construction of marine deck structures, detailed design of temporary and permanent earth retaining support system (ERSS) for the construction of underground structures and associated tunnelling works, and impact assessment of underground excavation / ground water control. She has widely supported contractors and end clients for deep excavation and TBM / mined tunnels for MRT (approx. 20m bgl) and cable tunnels (40m to 80m bgl) in Singapore. Her key skills include advanced two-dimensional (2D) and three-dimensional (3D) finite element modelling using PLAXIS as well as interpretation / reporting of geotechnical / structural analyses.

11. Digital Advancements for Geohazard Assessment on Infrastructure and Development Works (Stuart Millis, HKIE)

Ir. Stuart Millis obtained his MSc in Engineering Geology from the University of Leed in 1999. He is an Associate Director in Arup Hong Kong office, leading the Engineering Geology and Geographic Information System Teams. He is an Engineering Geologist with over 20 years' experience in the fields of engineering geology, engineering geomorphology, hydrogeology and geotechnical engineering. Stuart has been responsible for the geological modelling, hydrogeological modelling and geotechnical design on a wide variety of projects, including geohazard assessment and landslide instrumentation, large-scale site formation design and geotechnical and hydrogeological assessments for both drill & blast and TBM tunnelling projects. He has published over 20 technical papers in international and local conferences, and he is also the Associate Editor of The Quarterly Journal of Engineering Geology and Hydrogeology (QJEGH) since 2016.

12. Tunneling Impact on Piled Foundations using Load Transfer Analyses, (Dr BOON Chia Weng, IEM)

Graduated from Nanyang Technological University (Singapore) in Bachelor in Civil Engineering in Year 2009, Dr Boon is a Geotechnical engineer with key experience comprising of impact assessments of tunnels to foundations, twin tunnel interactions including undermining below an existing tunnel, impact of accommodating excavations above an existing tunnel, ground treatment works in soil and rock mainly in the karstic limestone formation, deep excavation accommodating TBM bore through, and interfacing design issues of deep excavation with neighboring future development with basement excavation. He also involved in the designs related to station excavation and tunneling works for Klang Valley Mass Rapid Transit SBK Line Underground, Malaysia and Klang Valley Mass Rapid Transit SSP Line Underground, Malaysia.

TENTATIVE PROGRAMME	
08:30 – 08:50	***Registration***
08:50 – 09:00	*Opening Address*
09:00 – 10:00	Special Lecture - Design Management of Single Largest Underground Construction Contract in Malaysia - A Client's Perspective *(Er. Poh Seng Tiok, IEM)*
10:00 – 10:30	Geotechnical Challenges and Countermeasures in Mixed Ground – An Example in Taipei MRT Project *(Chung-Ren Chou, CIE)*
10:30 – 11:00	***Tea Break***
11:00 – 11:30	TBM Bored Tunnels in Marble, *(Derek Kwok, HKIE)*
11:30 – 12:00	Finite Element Analysis of a Deep Excavation in Kenny Hill Formation with consideration of Small Strain Stiffness *(Frankie Cheah, IEM)*
12:00 – 12:30	Safety Assessment of MRT Tunnel under Construction and Operation Loading of Taxiway *(Tsai, Yuan-Yao, CIE)*
12:30 – 13:00	Practical ways to assign AAA limits for the temporary works in Infrastructure and Transportation Projects, *Ir Alan Lai, Delegate from Hong Kong Institusion of Engineers (HKIE)*
13:00 – 14:00	***Lunch***
14:00 – 14:30	Case Studies of Instrumented Pile Load Tests with Distributed Optical Fibre Sensor as Part of KVMRT in Limestone and Kenny Hill Formation (*Ir. Dr Hisham bin Mohamad, IEM)*
14:30 – 15:00	The slope stability analysis and improvement at Taiwan highway 8 sec. 63k *(Chia-Pin Wu, Delegate from Chinese Institusion of Engineers (CIE)*
15:00 – 15:30	Load transfer mechanism of embankment supported on deep mixed columns *(LEUNG Chi-on, (HKIE)*
15:30 – 16:00	***Tea Break***
16:00 – 16:30	The Application of Deep Soil Mixing Using Ground Cutter-Soil-Mix Technique to Excavations in Various Urban Projects: Design Concepts and Numerical Simulations *(Ir. Soo Wai Yee, IEM)*
16:30 – 17:00	Digital Advancements for Geohazard Assessment on Infrastructure and Development Works *(Stuart Millis, HKIE)*
17:00 – 17:30	Tunnelling Impact on Piled Foundations using Load Transfer Analyses, (*Dr BOON Chia Weng, IEM)*
17:00 – 18:00	Discussion and Q&A