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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'.

Terms & Conditions:

- For **ONLINE REGISTRATIONS**, only **ONLINE PAYMENT** is applicable [via RHB and Maybank2u –Personal Saving & Personal Current ; Credit Card - Visa/Master]
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- For online registrations, please note **that payment MUST be made "ONLINE" before the closing date**. If payment is not received and verified within the stipulated time, the registration fee will be reverted to the normal registration fee.
- **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. If the participant made payment and failed to attend the course, the fee paid is non refundable. Registration fee includes lecture notes, refreshment and lunches.
- 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.

**Half-Day Course on
 Overview of Design & Construction of Deep
 Excavation & Tunnelling Projects in Singapore**

By
Ir. Er. Dr. ONG Chee Wee, Victor
 &
Er. NG Chew Chiat, David

26 JULY 2014 (Saturday)
8.30 am – 1.00 pm
Auditorium Tan Sri Prof. Chin Fung Kee, 3rd Floor
Wisma IEM, Petaling Jaya

REGISTRATION FEES

Grade	Normal Fee	Online Fee
IEM Student Member	RM 50.00	RM 40.00
IEM Graduate Member	RM 70.00	RM 60.00
IEM Corporate Member	RM 100.00	RM 90.00
Non IEM Member	RM 180.00	RM 170.00

Closing Date: 22 JULY 2014

BEM Approved CPD/PDP Hours: 3.5
Ref. No.: IEM14/HQ/098/S

Important Note: IEM members are required to
 produce their membership cards for CPD
 scanning at the start and end of the seminar.



Jointly-Organized by
Tunnelling & Underground Space Technical Division (TUSTD) &
Consulting Engineering Special Interest Group (CESIG) of
The Institution of Engineers, Malaysia (IEM)

SYNOPSIS

Design of bored tunnelling and temporary works for deep excavation relies upon moderately conservative ground parameters and robust design solutions to limit movements of both the temporary works system and surrounding ground or structures to within acceptable limits. This is particularly true when working in the urban environment. Once major tunnelling works and excavation commences, effective construction control of the works is required to keep movements to within their limits. Instrumentation plays a crucial role in the safe construction of temporary works. The instruments monitor the construction movement and the results need to be precise and accurate to enable the construction works to proceed within a controlled manner. The instrumentation layout needs to be designed with careful consideration of the excavation and each instrument located with a specific purpose, to avoid the production of unnecessary and useless data. This will lead to confusion during the interpretation of monitoring results. This course aims to give an overview on design, construction and effective instrumentation & monitoring of bored tunnelling and temporary works for deep excavation projects in Singapore.

PROGRAMME

0800am	-	0830am	Registration
0830am	-	0930am	Overview of Bored Tunneling and Temporary Works Design and Construction <ul style="list-style-type: none">- Design principles and approaches in bored tunneling works- Design principles and approaches in temporary works for deep excavation- Various factors to be considered in the design- Various issues encountered during construction stage
0930am	-	1030am	Maximizing on Instrumentation and Monitoring for Bored Tunneling and Deep Excavation <ul style="list-style-type: none">- Introduction on Instrumentation & monitoring- How to maximize the use of instrumentation- Issues related to instrumentation during design- Issues related to instrumentation during construction
1030am	-	1050am	Tea Break
1050am	-	1140am	Case Histories on Circle Line & Downtown Line Projects <ul style="list-style-type: none">- Case Histories from Circle Line Projects- Case Histories from Downtown Line Projects
1140am	-	1240pm	Challenges & Future Look Ahead in Bored Tunneling and Temporary Works Design and Construction <ul style="list-style-type: none">- Various design and construction challenges for bored tunneling works- Various design and construction challenges for temporary works for deep excavation projects
1240pm			Q&A/Closing/End

SPEAKERS

1. Ir. Er. Dr. ONG Chee Wee, Victor is Managing Director of ONE SMART Engineering Pte Ltd and has 15 years of postgraduate working experience in consultancy, research and construction firms in Singapore and Malaysia. He is PE (Civil) registered with Board of Engineers Malaysia and ASEAN Chartered Professional Engineer. He is also a PE (Civil) as well as Specialist PE (Geo) registered with Professional Engineers Board (PEB), Singapore. He obtained his PhD in Geotechnical Engineering from the National University of Singapore (NUS). He has been a part-time lecturer at Singapore Building and Construction Authority (BCA) Academy, Singapore since 2007. Dr. Ong is currently serving on two International Technical Committees for International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) - Technical Committees TC 207 on Soil-Structure Interaction and Retaining Walls and TC 212 on Deep Foundations. He is recently elected as SPRING Singapore Technical Committee (15th Term) for The Standards Council (Civil & Geotechnical Works), 2011-2014. Dr. Ong is a recipient of Best Contribution Award in Asian Young Geotechnical Engineers Conference and The Hulme's Prize Award by Tunnelling & Underground Construction Society of Singapore (TUCSS). He is a Qualified Person (Supervision) for Singapore MRT Downtown Line 3 C933 which the project is a recipient of Singapore Concrete Institute Excellence Award 2013 for the use of SFRC tunnel segments. He is also a registered Qualified Earth Control Professional (QECP) in which his project was selected by Public Utilities Board (PUB) Singapore as ECM Model Site in 2012. He is currently involved in KL MRT (UG1), Singapore MRT DTL1 and DTL3.

2. Er. NG Chew Chiat, David is Executive Director of ONE SMART Engineering Pte Ltd and has 15 years of postgraduate working experience in consultancy and research in Singapore. He is a PE (Civil) as well as Specialist PE (Geo) registered with Professional Engineers Board (PEB), Singapore. He graduated in 1999 with a Master Degree in Geotechnical Engineering from NUS where he received the Innovation Award and NSTB Gold Award for his outstanding academic results and research work. Er. David Ng has been awarded The Young Consulting Engineer of the Year 2013 by Association of Consulting Engineers of Singapore (ACES) and The First Prize of Hulme's Prize Technical Paper Competition by Tunneling & Underground Construction Society of Singapore (TUCSS) in 2000, for his technical paper in tunnelling. Er. David Ng has published more than 35 technical papers in the field of geotechnical engineering. He has been elected as SPRING Singapore Technical Committee (15th Term) for The Standards Council (Civil & Geotechnical Works), 2011-2014. He is serving as a member in the Institute of Engineers Singapore (IES) Civil and Structural Technical Committee in the Geotechnical Division. Er. David Ng is also elected as the Council Member of the Tunnelling and Underground Construction Society of Singapore (TUCSS). He had been a member of the LTA Design Criteria and M&W Specifications Review Committee from 2002 to 2010. He has been involved in the planning, design, project management and instrumentation & monitoring of major infrastructure projects such as DTSS, KPE, CCL & DTL which involve deep excavation, mined tunnels and bored tunnels during his 15 years of working experience.