



# PHYSICAL HALF DAY WORKSHOP ON “DESIGN AND CONSTRUCTION SUPERVISION OF BORED TUNNELING PROJECTS”

SPEAKER;

**Er. DAVID NG**

**Date : 15<sup>TH</sup> NOVEMBER 2022 (Tuesday)**  
**Venue : Auditorium Malakoff, Wisma IEM**  
**Time : 9.00 a.m. – 1.30 p.m.**

**BEM Approved CPD/PDP Hours: 3.5  
(IEM22/HQ/183/W)**

**LIMITED TO 100 SEATS ONLY**

**‘FIRST-COME-FIRST-REGISTRATION BASIS’**

**CLOSING DATE:**

**10<sup>TH</sup> NOVEMBER 2022**

*OR if the Workshop Reach its  
Target Registered Participants  
NO ONLINE/OFFLINE Registration  
will be allowed after the Closing Date*

**Organized & Hosted by:**

***Tunneling and Underground Space Technical Division (TUSTD), IEM***

**Cancellation Policy**

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

**Personal Data Protection Act**

I have read and understood 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.

**“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion”.  
For intending participants who choose to ‘walk in without prior registration’,  
IEM SHALL NOT be responsible for any direct or consequential losses”.**

## SPEAKERS



**Er David Ng** is a Professional Engineer (Civil) and Specialist Professional Engineer (Geotechnical) in Singapore. He has been involved in publication of more than 70 technical papers in the field of geotechnical and environmental engineering. He has more than 20 years of experience in management, planning, design and construction of major infrastructure and transportation projects in Singapore, Malaysia and India. Er David Ng is Co-Founder & Executive Director of One Smart Engineering Pte Ltd which has offices and operations in Singapore, Malaysia and India. Some of the major underground infrastructure projects he has been involved in are Singapore MRT projects in North East Line, Downtown Line (DTL), Thomson East Coast line (TEL), Rail Transit System (RTS) connecting Singapore Woodland and Malaysia Johor Bahru, Singapore Underground Expressway projects Kallang Paya Lebar Expressway and North South Corridor, Malaysia KVMRT projects, LRT projects and India Mumbai Metro Line 3 project. Er David Ng is currently Council Member and Hon Secretary of IES and Chairman of Civil & Structural Technical Committee of IES.

## SYNOPSIS

In this workshop, the participants will learn about the design principles of bored tunnel segmental lining, ground settlement assessment due to bored tunneling and basic principles of segmental lining bored tunneling construction with Earth Pressure Balance Machine (EPBM) and Slurry Shield tunnel boring machine (Slurry TBM), as well as pipe jacking micro tunnel boring machine. With this understanding, the participants will next learn about the various Key Performance Indicator (KPI) for the safe bore tunneling process using bored tunnel machine (TBM). KPI for bored tunneling is important to ensure that the tunneling is safe and does not have adverse impact to the adjacent ground and buildings. The participants will learn about the sequence of work for bored tunneling from construction of TBM shaft, erection of reaction frame, temporary rings, initial drive and main drive. This will equip the participant the necessary basic knowledge in design and construction supervision of bore tunneling works. It is very important to have a comprehensive and clear framework to ensure bored tunnelling underground projects are being carried out in a safe manner and well managed. This workshop will illustrate a good and practical framework for design submission approval, construction supervision and management for bored tunnelling works. This workshop will use some case histories to illustrate some of the more commonly encountered regulation frameworks to be complied with.

## PROGRAMME OUTLINED

Time	Programme
8:30 am – 9:00 am	Registration
9:00 am – 9:05 am	Welcoming Address and Introduction by TUSTD.
9:05 am – 10.45 am	<b>Part 1: Basic Principles and Key Performance Indicators for Supervision of Bored Tunneling &amp; Pipe Jacking Works</b>
10.45 pm – 11.00 am	Morning Coffee Break
11.00 am – 13.00 pm	<b>Part 2: Regulatory Framework for Supervision of Tunneling Projects Illustrated with Case Histories</b>
13.00 pm – 1.30 pm	Q&A
1.30 pm	End & Lunch

**\* IEM reserves the right to postpone, reschedule, allocate or cancel the course.**

## REGISTRATION FORMS

### PHYSICAL HALF DAY WORKSHOP ON "DESIGN AND CONSTRUCTION SUPERVISION OF BORED TUNNELING PROJECTS"

**15<sup>TH</sup> NOVEMBER 2022 (Tuesday)**

Fax: 03-7957 7678

Email: [shahrul@iem.org.my](mailto:shahrul@iem.org.my)/[parimala@iem.org.my](mailto:parimala@iem.org.my)

REGISTRATION FEE : 6% GST EFFECTIVE 01<sup>ST</sup> MARCH 2019

	ONLINE	NORMAL FEE (RM)
IEM Student Member	80.00	100.00
IEM Graduate Member	150.00	180.00
IEM Corporate Member	250.00	300.00
Non-IEM Member	400.00	500.00

No	Name(s)	Membership No.	Grade	Fee (RM)*
SUB TOTAL				
+ 6% SST				
TOTAL PAYABLE				

#### PAYMENT DETAILS :

Cash RM \_\_\_\_\_

Cheque no. \_\_\_\_\_ for the amount of RM \_\_\_\_\_ (non refundable) and made payable to  
**(SHOULD PAYMENT IS MADE, KINDLY EMAIL THE 'BANK-IN-SLIP' TO IEM FOR VERIFICATION BEFORE THE EVENT FOR EASY REGISTRATION)**

**FULL PAYMENT must be settled before commencement of the seminar**, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch (which ever available).

For **ONLINE REGISTRATIONS**, please note that payment **MUST** be made **BEFORE the closing date**. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

Contact Person : \_\_\_\_\_ Designation : \_\_\_\_\_

Name of Organization : \_\_\_\_\_

Address : \_\_\_\_\_

Telephone No. : \_\_\_\_\_ (O) Fax No : \_\_\_\_\_ (O)

Handphone : \_\_\_\_\_ (HP) Email: \_\_\_\_\_

Signature & Stamp \_\_\_\_\_

Date \_\_\_\_\_

#### TERMS & CONDITIONS:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and 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
- The Organising 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.

#### For further details, kindly contact:

The Institution of Engineers, Malaysia  
Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan), 46720 Petaling Jaya, Selangor  
Tel : 603-7968 4001/2 Fax : 603-7957 7678 Email : [shahrul@iem.org.my](mailto:shahrul@iem.org.my)/[parimala@iem.org.my](mailto:parimala@iem.org.my)

# ADVERTISEMENT BOOKING FORM (PROCEEDING MATERIALS)

## PHYSICAL HALF DAY WORKSHOP ON “DESIGN AND CONSTRUCTION SUPERVISION OF BORED TUNNELING PROJECTS”

**15<sup>TH</sup> NOVEMBER 2022 (Tuesday)**

Organised by :

Tunnelling and Underground Space Technical Division (TUSTD), The Institution of Engineers, Malaysia  
No. 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan), 46720 Petaling Jaya, Selangor  
Tel No. 03-79684001/26 Fax No. 03-79577678 Email: [shahrul@iem.org.my](mailto:shahrul@iem.org.my) Website: [www.iemasb.com](http://www.iemasb.com)

Chairman, Tunnelling and Underground Space Technical Division (TUSTD)

We would like to place an advertisement in the EVENT BOOKLET of the **HALF DAY SEMINAR (15<sup>th</sup> November 2022)** as indicated below and attach herewith a cheque no. .... for the sum of RM ..... made payable to “**THE INSTITUTION OF ENGINEERS, MALAYSIA**” being our booking fees:-

Tick (v)	Location	Advertisement Rates	Complimentary Participant Seat	Promotion Table @ Registration Foyer Only (Wherever Suitable)
	Outside Back Page (Colour)	RM 6,000.00	3 seats	1 Table with 2 chairs
	Inside Front Page (Colour)	RM 4,500.00	2 seats	1 Table with 2 chairs
	Inside Back Page (Colour)	RM 4,500.00	2 seats	1 Table with 2 chairs
	Inside Run of Page (Colour)	RM 2,500.00	1 seat	Nil

**\*Advertisement Artwork must be accompanied with payment before printing.**

**PAYMENT INFORMATION:**

✓ Account Name : THE INSTITUTION OF ENGINEERS, MALAYSIA
✓ Account Number : 232-303-911-0
✓ Bank Name : UNITED OVERSEAS BANK (UOB)
✓ Bank Address : NO 2-6, JALAN TENGAH, 46200 PETALING JAYA, SELANGOR
✓ Swift Code : UOVBMK1025
✓ Email Address for Receiving Remittance Advise : <a href="mailto:finance@iem.org.my">finance@iem.org.my</a> / <a href="mailto:shahrul@iem.org.my">shahrul@iem.org.my</a>

**CONTACT INFORMATION:**

Contact Name:			
Organisation:			
Position:			
Mailing Address:			
Contact Nos.:	Tel:		Fax:
Hand phone No.			
E-mail:			

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Company Stamp: