

Organised by:



Tunnelling and Underground
Space Technical Division

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SEACETUS 2024

Southeast Asian Conference and Exhibition on Tunnelling and Underground Space

Theme:
Innovation and Sustainable
Underground Space Development

**West Wing Level 3,
Kuala Lumpur Convention Centre,
Kuala Lumpur, Malaysia.**

5 - 7 March 2024



Call for Registration

Please register early to
get discount

Registration fee

Categories 2023	Before 31 Dec	After 31 Dec
Presenting Author	RM848	RM1,166
Co-authors (Participant fee)	RM1,272	RM1,590
Participants fee (Member)	RM1,272	RM1,590
Participants fee (Non Member)	RM1,908	RM2,120
Local students	RM530	RM848
Online Zoom		USD110/ RM500
Dinner on 5 March 2024		RM400

Group discount

Categories - Members each	Before 31 Dec	After 31 Dec
Group of 5 participants	RM1,060	RM1,378
Categories - Non Members	Before 31 Dec	After 31 Dec
Group of 5 participants	RM1,696	RM1,908

OPENING KEYNOTE ADDRESS

Rescue Effort of the 41 workers on India Tunnel Collapse
by ITA President, Mr. Arnold Dix, President (2022-2025) (Australia)

KEYNOTE ADDRESS 2 (Virtual presentation)

Global Tunnelling Updates, Innovations and Way Forward
by Prof. Jinxiu (Jenny) Yan, Immediate Past-President, ITA (2022-2025), (USA)

KEYNOTE LECTURES

Applications of 3D Geological Model for Underground Construction
by Prof. Dr Chu-Jian, SF Wu, Y. Zhang, K. Chiam and KH Goh (Singapore)

Multiple Tunnel Interactions with Different Skew Angles in Layered Soil Strata
by Prof. Charles W.W. Ng (Hong Kong, China)

Risk Management in the Procurement Process for Major Underground Infrastructure Works
by Er. Poh Seng Tiok (Singapore)

Circular Economic Approach for Integrated Planning and Design of Coastal Protection Structures
by Er. David Ng Chew Chiat, Ar. Leong Tat Man (Singapore)

A Practical Application of the Key Principles of the FIDIC-ITA Emerald Book Underground Works
by Mr. Martin Smith (Korea)

TBM Development and Innovation in Malaysia
by Y Bhg Dato' Ir. Paul Ha Tiing Tai & Ir. Dr Ooi Lean Hock (Malaysia)

Overview of Singapore's Rail Construction & Tunnelling Projects
by Mr. Chang Kin Boon and S.J. Darryl Chen (Singapore)

SPECIAL LECTURES

Design and Construction of the 48-km-long Water Transfer Tunnel in Thailand
by Prof. Noppadol Phienwei and T.Harnpattanapanich (Thailand)

Innovative Methods to Address Complex Geological Condition and Manmade Obstructions in KVMRT
by Ir. Prof. Dr Lean Hock Ooi (Malaysia)

Key Impacts on Wall Deflection in Deep Excavation in Sand and Visualized Risk Management for Underground Construction
by Dr Benson Hsiung (Chinese Taipei)

Back Analysis and Its Importance in the Advance In The Geotechnical Design Of Excavations
by Mr. John G Davies (UK)

Bangkok soil database for supporting the Tunnelling construction considering the variability of soil properties and sand layers
by Prof Dr Suttisak Soralum, Department of Civil Engineering, Kasetsart University (Thailand)

Learning from Silkyara Tunnel Collapse in India: The Role of Distributed Fibre Optic Sensing (DFOS) in Advancing Tunnel Safety
By Dr Manoj Verman, Tunnelling & Rock Engineering Expert (India)

Design and Construction of Embedded Earth-Retaining Walls for Deep Excavation Works in Multi-layered Soil of Bangkok
by Mr. Zaw Zaw Aye, Thayanam Boonyark, Aye Yadana Aung, Nuthapon Thasnanipan (Thailand)

Session A

Underground Urban Storm Water Management Green, Eco-Friendly Trenchless Technology
by Neo Boon Kheng (Malaysia)

Overview of Sustainable Use of Tunnels and Underground Space in Malaysia
by T.A Ooi and C.M. Khoo (Malaysia)

Rock Mass Characterization of Tunnel Face Using Image Analysis Technique
by Nursyahidah bt Mohd Saleh, Mohd Ashraf Mohamad Ismail, Intan Norsheira Yusoff Abdul Hakim Salleh an Mazlina Razali (Malaysia)

Evolution of Rectangular Tunnel
by Muhammad Yusoff Mohd Nasir (Malaysia)

Development Of Langat 2 Water Treatment Plant and Water Reticulation System In Selangor Darul Ehsan / Wilayah Persekutuan Kuala Lumpur: Pipe Jacking Works by Micro tunnelling Method Crossing Besraya Highway, MRT, KTMB Track, ERL Track And North-South Highway, Kuala Lumpur – Line
by Danny Cheng Chin Keong (Malaysia)

Session B

Micro tunneling Within Railway Protection Zone for Large Diameter Water Pipe in Klang Valley
by Farid Ahmad, Azilah Ismail and Farishya Kamaruzaman (Malaysia)

Impact Assessment of Surrounding Structure Caused by the Installation of an Underground Water Pipe by Using Pipe Jacking Across an Expressway
By Lee Long Guang, Gog Siang Huat, Victor Ong Chee Wee, David Ng Chew Chiat (Singapore)

Surface Settlement Caused by Pipe Jacking Works Crossing KL-Seremban Highway
by Nur Diana Natasya Razali and Hisham Mohamad, Pierre Muller (Malaysia)

Instrumentation and Monitoring for KVMRT Line 2 Tunnelling Works (Bandar Malaysia North Station to Chan Sow Lin Station) in Kuala Lumpur
by Yean-Chin Tan, Chee-Leong Low, Chiew-Ling Tei and Kok-Loong Teh (Malaysia)

Trial Blasting Evaluation for Jakarta-Bandung High Speed Railway Tunnel #7
by Simon Prasetyo; Ganda Marihot Simangunsong; Ridho Kresna Wattimena; Made Astawa Rai; Teguh Purnama Sidiq; Widodo; D Putra (Indonesia)

Session C

Geotechnical Failures of Tunneling in Fractured Rock Due to Existing Faults and Their Countermeasure Case Study of Jatigede Dam Diversion Tunnel
by Paulus Pramono Rahardjo, Martin Wijaya, Bondan W. Anggoro and Delaneira P Seourin (Indonesia)

Case Study on Inspection and Maintenance of Road Tunnel with Double Arch
by Chia-Han Lee (Chinese Taipei)

Case Study of Ground Stabilisation Analyses at Interface between Underground rail tunnel and existing DTSS
by Kok De Siang, David Ng Chew Chiat, Victor Ong Chee Wee (Singapore)

Seismic Risk and Geological Challenges for Railway Infrastructure: A Case Study of the Himalayan Tunnelling
by Abdullah Ansari (India)

Session D

Effects of Train Movement in Underground Tunnel on the Building Stability
by Salem Essameldin, Siti Norafida Jusoh, Khairun Nissa Mat Said, Rini Asnida Abdullah, A Rahim, MF Zolkepli and MI Shahrin (Malaysia)

Back Analysis of Ground Surface Settlement induced by EPB Tunnelling in Kenny Hill Formation
by Chee-Min Khoo (Malaysia)

Numerical Analysis of Ground Settlement in Urban Tunnelling
by Karthigeyan Ramanathan, Rini Asnida Abdullah, Afikah Rahim, Siti Norafida Jusoh, Khoo Chee Min, Mohmmad Amjad Faruq Mohammad Haniff and Simon Heru Prasetyo (Malaysia)

Design and Construction Experience on MRT2 Cut and Cover MRT Station
by. Gan Choon Hock (Malaysia)

Technical Visit (Selection one option)

Technical Visit 1 : East Coast Rail Link (ECRL) (Limited to 30 pax)

Technical Visit 2: Pahang Selangor Raw Water Transfer (PSRWT) Express Water Tunnel

Registration For Participants Form

Company	Country
Contact Person	Designation
Address	
Tel/Mobile	Email

Categories	Before 31 Dec	After 31 Dec	Please indicate number of pax
Authors	RM848	RM1,166	<input type="text"/>
Co-authors fee	RM1,272	RM1,590	<input type="text"/>
Participants fee (Member)	RM1,272	RM1,590	<input type="text"/>
Participant Fee (Non Member)	RM1,908	RM2120	<input type="text"/>
Local students	RM530	RM848	<input type="text"/>
Technical Visit	RM160	RM160	<input type="text"/>
Online Zoom		USD110/ RM500	<input type="text"/>
Dinner on 5 March 2024		RM400	<input type="text"/>

No.	Name of Participant(s)	Category	IEM/PE No.	Amount (RM)
1				
2				
3				
4				
5				

Terms & Conditions

- FULL PAYMENT must be settled before the closing date, which is one week before the event. The Organiser reserve the right not to allow unpaid participants 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.
- IEM TA and 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.
- Please ensure that the Invoice Number and Company Name are stated on the bank in slip. Email the soft-copy of payment slip to SEACETUS 2024 Secretariat mentioned above. Invoice/Receipt will be sent to participants upon receipt of this registration and payment.
- All fee is inclusive of 6% SST.
- Fees paid is not refundable and registration fees include lecture notes and refreshment

Payment Methods

1. Banker's cheque made payable to "IEM TRAINING ACADEMY SDN BHD".
2. Bank Transfer (Please forward soft copy of payment advise):

Account Name : **IEM TRAINING ACADEMY SDN BHD**
 Account Number : **3197605506**
 Bank Name : **Public Bank Berhad**
 Bank Address : **PJ New Town Branch, No. 1, 3 & 5, Ground Floor, Jalan 52/2, 46200, Petaling Jaya, Selangor Darul Ehsan, Malaysia**
 Swift Code : **PBBEMYKL**

- a. e-Payment Credit Card via STRIPE for international transaction, 4% service charge fees will be imposed.

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- Please ensure that the Invoice Number and Company Name are stated on the bank in slip. Email the soft-copy of payment slip to iemta@iem.org.my.
- Invoice/Receipt will be sent to participants upon receipt of this registration and payment.

Cancellation Policy

IEMTA reserves the right to postpone, reschedule, allocate, or cancel the event. Full refund less 30% if cancellation is received in writing more than 30 working days before the commencement of event date. No cancellation will be accepted prior or 7 working day to the date of the event. However, replacement or substitute may be made.

Exhibition Information

The standard shell booth is 3 metre by 3 metre with rear and dividing walls of 2500mm high using white powder coated aluminium system. The following items will be provided:

No.	Item	Description	Units	Rates (RM)
1	Electrical	40 Watt fluorescent Light	2	No charge
		13 Amps single phase power point	1	No charge
2	Furniture	Information counter	1	No charge
		Foldable chairs	2	No charge
		Paper basket	1	No charge
3	Graphics	Company's name and booth number in self-adhesive PVC lettering		No charge

Standard Exhibition Booth

Benefits as follows:

Exhibition Booth – (two types) Contributors and solely Exhibitors

- Full Online Registration for participants based on contribution amount
 - a. For Contributors, registration fees for the number of delegate can be waived as specified in the entitlement
 - b. **Name of the delegate to be submitted to the Conference Secretariat not later than 30 December 2023.**
- Chat Box (Networking)
- Download Centre (up to ONE page pdf / jpg / png)
- Product Image & Description (Maximum of ONE product)
 - a. **Both submissions should be in high resolution file format and to be provided to the Organising Committee not later than 30 December 2023.**



Note:

1. Photo shown is only a template and for promotional display only.
2. Display products are to be provided by exhibitors.
3. Product Design File to be provided and downloaded by Client.
4. Advertising & Logo artwork, designs, colour separation and film production are to be provided in jpg or pdf format at the sponsors' own cost.

Exhibition Booth

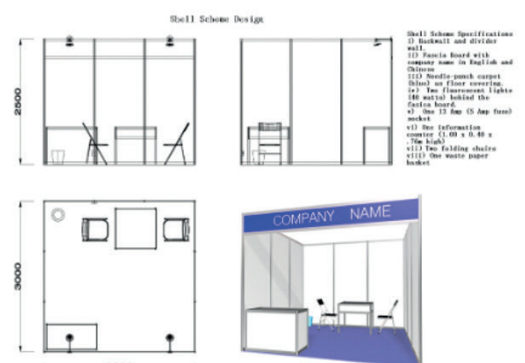
The standard shell scheme booth includes 3 meters by 3 meter (3m x 3m) or 4sqm standard booth with 2.44mHt rear and dividing pifex system and partition in white panel. Each stand is complete with white melamine panels/partition. The following items will be provided:

Exhibitors are entitled to the following:

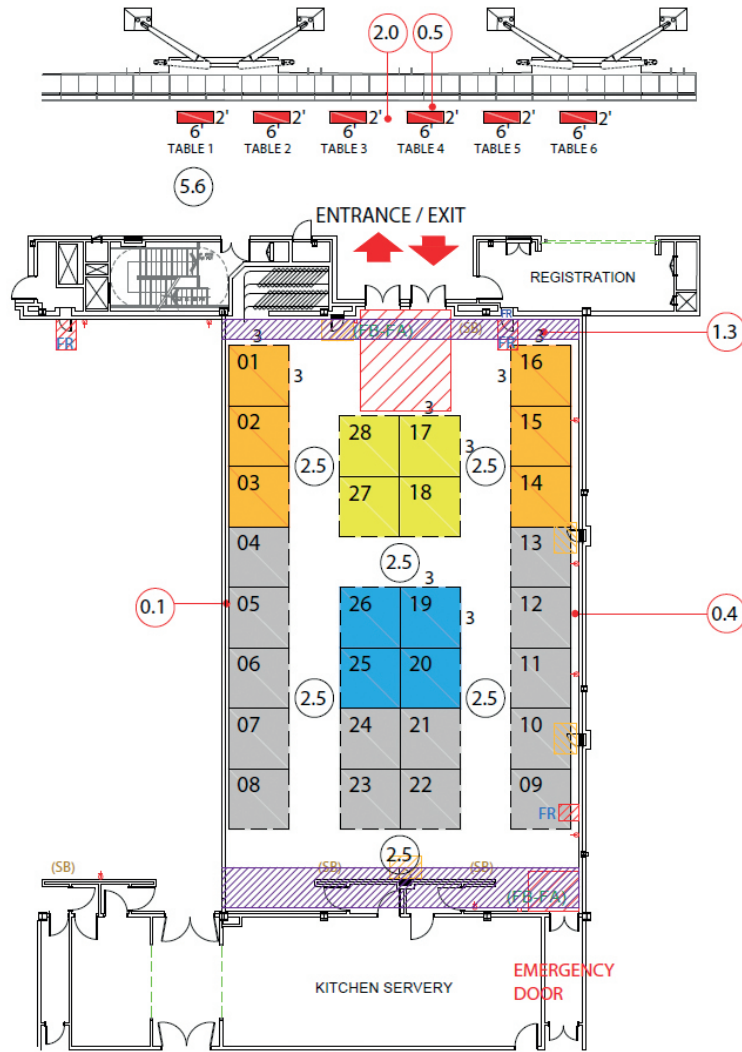
- a. Two (2) exhibition passes for staff in charge of exhibition booth.
- b. Teas and lunches will be provided during duration of the exhibition.
- c. Conference passes given will depend on the exhibition entitlement specified based on sponsorship

Tentative Booth Setup Schedule:

Date	Time	Details
4 March	9.00 am – 12.00 noon	Contractor consulting Exhibition booths
4 March	12.00 nn - 11.00 pm	Display of exhibits by exhibitors
5-6 March	7.30 am – 7.00 pm	Exhibition in progress
6 March	6.00 pm – 7.00pm	End of Exhibition Exhibitors to remove display and exhibits.
	7.00pm – 9.00 pm	Contractor to dismantle Exhibition booths



SEACETUS 2024 | 5 - 6 March 2024
Kuala Lumpur Convention Centre, Conference Hall 3



Conference Exhibition Packages

Invitations to companies to consider taking exhibition booth sponsorship at the following price.

Diamond Booth Package MYR 25,000	Premium Booth Package MYR 15,000	Superior Booth Package MYR 12,000	Deluxe Booth Package MYR 10,000
<ul style="list-style-type: none"> • 1 unit exhibition booth 3mx3m • 3 Conference passes • 2 Exhibitors day passes • Acknowledgement in Souvenir Programme • Certificate of appreciation given at opening ceremony • Corporate logo on display at backdrop and during conference 	<ul style="list-style-type: none"> • 1 unit exhibition booth 3mx3m • 2 Conference passes • 2 Exhibitors day passes • Acknowledgement in Souvenir Programme • Certificate of appreciation given at opening ceremony • Corporate logo display during conference 	<ul style="list-style-type: none"> • 1 unit exhibition booth 3mx3m • 1 Conference pass • 2 Exhibitors day passes • Acknowledgement in Souvenir Programme • Certificate of appreciation 	<ul style="list-style-type: none"> • 1 unit exhibition booth 3mx3m • 2 Exhibitors day passes • Acknowledgement in Souvenir Programme • Certificate of appreciation

Details		
Banquet Dinner	MYR23,000	1 Conference Pass Acknowledgement in Souvenir Programme Certificate of Appreciation given at the Banquet dinner Company allowed to set up desktop display and distribute flyers to participants at dinner Company allowed to do a 10 minutes introduction at the dinner. 1 table allocated to company for his official (Management) and guests Corporate Logo display at the backdrop of the dinner
Conference Bag	MYR13,000	Acknowledgement in Souvenir Programme 1 Conference Pass Certificate of Appreciation given at the opening ceremony Corporate promotional material insert in bag Corporate Logo Display during the Conference Logo of Company display on the bag
Pen drive/ thumb drive (300 pcs)	MYR11,000	1 Conference Pass Acknowledgement in Souvenir programme Certificate of Appreciation given at the opening ceremony Corporate Logo Display during the Conference Logo printed on thumb drive or its cover
Lanyard and Tags (300 pcs)	MYR8,000	Acknowledgement in Souvenir programme Conference proceeding + souvenir programme book Logo of Company printed on lanyard and badge tags Certificate of Appreciation
Buffet Lunch (Limited only 2 lunches available for booking)	MYR7,000	Conference Proceeding + Souvenir Programme Book Corporate Logo Display at Lunch Area Acknowledgement in Souvenir Programme Company allowed for a 10 minutes introduction at the dinner. Company allowed to distribute flyers to participants at lunch Certificate of Appreciation given at the lunch 1 table allocated to the company guests and official (Management)
Technical Visit Transportation	MYR2,500 Per coach	Acknowledgement in Souvenir programme Certificate of Appreciation
Technical Lunch		Conference Proceeding + Souvenir Programme Book Acknowledgement in Souvenir Programme Token of Appreciation given at the visit

Contributors	MYR5,000	Conference proceeding + souvenir programme book Acknowledgement in Souvenir Programme
Donors	MYR3,000	Acknowledgement in Souvenir Programme

Exhibition Sponsorship Form

Company	Country
Contact Person	Designation
Address	
Tel/Mobile	Email

Exhibition Packages

No	Packages	MYR	Tick the appropriate
1.	Diamond Booth Package	RM 25,000	<input type="checkbox"/>
2.	Platinum Booth Package	RM 15,000	<input type="checkbox"/>
3.	Gold Booth Package	RM 12,000	<input type="checkbox"/>
4.	Silver Booth Package	RM 10,000	<input type="checkbox"/>
5.	Donation	RM 5,000	<input type="checkbox"/>
6.	Contribution	RM 3,000	<input type="checkbox"/>

Special Privilege Packages

No	Packages	MYR	Tick the appropriate
1.	Conference Bag Package	RM 13,000	<input type="checkbox"/>
2.	Banquet Package	RM 23,000	<input type="checkbox"/>
3.	Pendrive/Thumbdrive Package	RM 11,000	<input type="checkbox"/>
4.	Lanyard and Name tag Package	RM8,000	<input type="checkbox"/>
5.	Lunch Package (limit to 2 bookings)	RM 7,000	<input type="checkbox"/>
6.	Technical Visit coach	RM 2,500	<input type="checkbox"/>

Terms and Conditions

- Priority for selection of Booth location will be accorded on the first come first paid and first served basis and upon receipt of full payment
- Booth selection is subject to the Organising Committee approval
- Booth entitlement would be as what had been specified and additional will be chargeable and payable to the booth Contractors

Company's Profile and logo

Please submit Company's Profile of not more than 200 words for the publication in the Souvenir Programme to be distributed to the participants (soft copy or in words and attached to the form). Please also include logo artworks colour and pdf in high resolution.

Contact Information

Name:			
Position:			
Organisation:			
Position:			
Mailing Address			
Email Address:			
Contact No.:	Office	Mobile	
Date:		Company Stamp:	
Signature:			

Please return the completed form to the Secretariat at :

SEACETUS 2024 Secretariat
 c/o IEM Training Academy Sdn Bhd
 Wisma IEM, Jalan Selangor
 46720 Petaling Jaya, Selangor DE
 Tel: +603 79586851
Email: iemta@iem.org.my

Souvenir Programme Book Advertising Rates

Specified Position	Price Per Insertion (RM)	I Wish To Book (Please Tick)
Outside Back Cover (OBC)	4,000	()
Inside Front Cover (IFC)	3,500	()
Inside Back Cover (IBC)	3,200	()
Page 1	3,000	()
Facing Chairman's Message	2,800	()
Facing President's Message	2,800	()
Facing Inside Back Cover	2,800	()
Run-On-Page (ROP)	1,900	()
Double Page Spread (DPS)	4,500	()

Remarks:

- Space availability is subject to booking on first-come-first-served basis
- Book Size: 210mm(W) x 285mm(H). Please provide extra 6mm for bleed area on all 4 sides
- Advertisement Format: High resolution PDF file, with crop marks, bleed area, text being outlined
- Prices shown above exclude 15% Advertising Agency commission
- Please note that the above prices will be subjected to SST
- Any cancellation after signing the Advertising Contract will result in a 50% penalty charge
- Payment term: 14 days upon invoicing
- Kindly tick in the relevant bracket. IEMTA reserves the right to edit, revise or reject any advertisement deemed unsuitable or inappropriate. The final print-ready artwork to be furnished by advertisers

For advertising enquiries, please contact:



Name of Company

Contact Person

Email Address

Date

Company Stamp & Authorised Signature

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DIMENSION PUBLISHING SDN BHD

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514178206211

Bank Name
Malayan Banking Berhad

Bank Address
**1, Jalan 21/11A, Sea Park, 46300
Petaling Jaya, Selangor, Malaysia**

Swift Code
MBBEMYKL

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