



3rd MGS-GeoSS

Geotechnical Conference

11th - 13th NOVEMBER 2026

Sabah International Convention
Centre, Kota Kinabalu, Sabah

BULLETIN No. 4

Jointly organised by



Member Societies of International
Society for Soil Mechanics and
Geotechnical Engineering (ISSMGE)

Supported by



Event Organiser



The Institution of Engineers,
Malaysia
(Sabah Branch)



BEM CPD Hour: **14**
Ref: **IEMSABAH/2026/25**
PEB's PDU: **14**
Ref: **CO/A00001641**

INTRODUCTION

The MGS – GEOSS Conference was an initiative under the Memorandum of Understanding signed by MGS and GeoSS on 3 November 2017, where both parties agreed to jointly organise a Geotechnical Conference hosted alternately. This inaugural 1st MGS – GEOSS Conference was successfully held from 24 to 26 June 2019 at the Hilton Petaling Jaya, Selangor while the 2nd GEOSS – MGS Conference was hosted by GeoSS from 30 November to 2 December 2023 at Capri by Fraser, Changi City, Singapore.

The aim of this conference series is to bring together geotechnical professionals to engage on the specific selected themes with continued emphasis on innovative design, construction methods, safety, and technological advancements.

3RD MGS-GEOSS GEOTECHNICAL CONFERENCE 2026

Main Theme Advancements in Geotechnical Engineering: Shaping the Future of the Built Environment

Sub Themes

- Soil Characterization and Properties
- Ground Improvement and Stabilization
- Shallow and Deep Foundations
- Excavations and Retaining Structures
- Field Testing and Performance Monitoring
- Engineering Geology and Rock Mechanics
- Design Analysis and Modelling
- Tunnelling and Underground Space Development
- Earthquake Geotechnics for Seismic Resilience

CONFERENCE VENUE

Sabah International Convention Centre (SICC) is East Malaysia's premier waterfront events hub, located in the heart of Kota Kinabalu along the scenic South China Sea. Strategically positioned just a short drive from Kota Kinabalu International Airport, it offers excellent regional and international air connectivity.

Surrounding accommodation ranges from luxury and international hotels within 5 km to thousands more rooms across the city, complemented by vibrant dining, shopping, and leisure options. Its stunning waterfront setting not only enhances delegate experience but also provides easy access to local attractions and cultural experiences.

The conference hall at Sipadan III located on Level 4 are thoughtfully designed conference halls within the SICC that offer participants a comfortable, professional, and well-connected meeting environment.



Kota Kinabalu, Sabah where NATURE MEETS INNOVATION.

Nestled on the breathtaking coast of Borneo, Kota Kinabalu and affectionately known as "KK", Kota Kinabalu offers a unique blend of natural beauty, cultural richness, and modern conveniences, making it an ideal destination for this year's conference. As the capital of Sabah, Malaysia's "Land Below the Wind," Kota Kinabalu is a vibrant gateway to adventure, learning, and connection.



From its world-renowned sunsets over the South China Sea to the majestic backdrop of Mount Kinabalu, the highest peak in Southeast Asia, the city promises an unforgettable experience for every visitor. Whether you're wandering through bustling local markets, enjoying fresh seafood by the waterfront, or venturing into nearby islands and rainforests, KK offers the perfect balance of business and leisure.

Beyond its natural wonders, Kota Kinabalu is also rapidly evolving as a hub of infrastructure development and sustainable urban growth—making it a fitting location to explore the latest advancements in geotechnical engineering.

3rd MGS-GeoSS

Geotechnical Conference



Main Theme

**Advancements in
Geotechnical
Engineering: Shaping
the Future of the Built
Environment**

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KEYNOTE SPEAKERS



Ir. Zainazah Ahmad Banjar

Deputy Director
Technical Services Sector
JKR Sabah



Dato' Ir. Dr Gue See Sew

Past President
The Institution of Engineers,
Malaysia



Ir. Dr Ooi Lean Hock

Geotechnical Director
GAMUDA Berhad



Er. Prof Leung Chun Fai

Emeritus Professor
National University of
Singapore



Er. Chua Tong Seng

Managing Director
Kiso-Jiban Singapore Pte
Ltd



Dr. Chepurthy Veeresh

Deputy Director, Geotechnical &
Tunnels Div
Infrastructure Specialist &
Center of Excellence for
Tunneling, Singapore

ADVISORY COMMITTEE

Ir. Dr Chan Sin Fatt

Er. Dr. Poh Teoh Yaw

Ir. Liew Shaw Shong

Er. Prof Leung Chun Fai

Ir. Yee Yew Weng

Er. Prof Chu Jian

Ir. Dr Dominic Ong Ek Leong

Er. Dr. Ng Tiong Guan

Er. Michelle Lew Geok Theng

ORGANISING COMMITTEE

POSITION	COMMITTEE MEMBER
Organising Chairman	Ir. Lee Peir Tien Ir. Dr Chan Swee Huat Dr Darren Chian Siau Chen
Secretary General	Ir. Frankie Cheah Peng Leong Dr Muthusamy Karthikeyan
Treasurer	Ir. Assoc Prof Dr Choo Chung Siung Ms Chriswini Tanaka
Technical Papers	Ir. Dr Gue Chang Shin Dr Chepurthy Veeresh
Hotel and Exhibition	Ir. Wong Chen Jack Assoc Prof Ho Jiahui
Advertisement and Sponsorship	Mr Ang Koh An Dr Leong Kam Weng
Technical Site Visit	Ir. Lo Chong Chuin



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EXHIBITORS

Nehemiah Reinforced Soil Sdn Bhd

GDS Instruments Sdn Bhd

Smart Sensing Technology Sdn Bhd

Zhao Yang Geotechnic Sdn Bhd

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Geotechnical Alliance Sdn Bhd

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TENTATIVE PROGRAMME

Time/Date	11 TH NOVEMBER 2026 (WEDNESDAY)		
7.30AM	REGISTRATION		
8.30AM-9.00AM	OPENING CEREMONY Welcome Remarks by Organising Chairman: Ir. Lee Peir Tien MGS President: Ir. Dr Gue Chang Shin GeoSS President: Er. Michelle Lew Geok Theng SEAGS President: Dr Darren Chian Siau Chen		
9.00AM - 9.30AM	KEYNOTE ADDRESS 1 Ir. Zainazah Ahmad Banjar <i>(Timbalan Pengarah - Sektor Khidmat Teknikal, Jabatan Kerja Raya, Negeri Sabah)</i>		
9.30AM -10.15AM	KEYNOTE ADDRESS 2 - Pile Raft Foundations Er. Prof Leung Chun Fai <i>(Emeritus Professor, National University of Singapore)</i>		
10.15AM - 10.45AM	MORNING TEA BREAK		
10.45AM - 1.00PM	TIME	TECHNICAL SESSION 1 (Sipadan III)	TECHNICAL SESSION 2 (Kinabalu Room)
	10.45am - 11.00am 11.00am - 11.15am 11.15am - 11.30am 11.30am - 11.45pm 11.45pm - 12.00pm 12.00pm - 12.15pm 12.15pm - 12.30pm	Theme: Ground Improvement and Stabilization Session Chairman: TBA MGSSC2026-18 MGSSC2026-34 MGSSC2026-50 MGSSC2026-53 MGSSC2026-68 MGSSC2026-70 MGSSC2026-92 Theme: Soil Characterization and Properties Session Chairman: TBA MGSSC2026-22 MGSSC2026-49	Theme: Design Analysis and Modelling Session Chairman: TBA MGSSC2026-8 MGSSC2026-10 MGSSC2026-12 MGSSC2026-15 MGSSC2026-36 MGSSC2026-37 MGSSC2026-79
	12.30pm - 12.45pm 12.45pm - 1.00pm	MGSSC2026-87 MGSSC2026-88	
1.00PM - 2.00PM	LUNCH		
2.00PM - 2.45PM	KEYNOTE ADDRESS 3 - Slope Engineering and Management: The Way Forward in Landslide Risk Mitigation Dato' Ir. Dr Gue See Sew <i>(Past President, The Institution of Engineers, Malaysia & Director, G&P Professionals Sdn Bhd)</i>		
2.45PM - 3.30PM	KEYNOTE ADDRESS 4 - Constructing SCL Tunnels beneath two existing MRT lines in Difficult Ground using Ground Freezing, Horizontal Grouting and a Purpose-Built Shield Machine Er. Chua Tong Seng <i>(Managing Director, Kiso-Jiban Singapore Pte Ltd)</i>		
3.30PM - 4.00PM	AFTERNOON TEA BREAK		

TENTATIVE PROGRAMME

	TIME	Technical Session 3 (Sipadan III)	Technical Session 4 (Kinabalu Room)
4.00PM - 5.30PM	4.00pm - 4.15pm 4.15pm - 4.30pm 4.30pm - 4.45pm 4.45pm - 5.00pm 5.00pm - 5.15pm 5.15pm - 5.30pm	Theme: Field Testing and Performance Monitoring Session Chairman: TBA MGSSC2026-05 MGSSC2026-40 MGSSC2026-41 MGSSC2026-42 MGSSC2026-67 MGSSC2026-82	Theme: Others Session Chairman: TBA MGSSC2026-04 MGSSC2026-06 MGSSC2026-14 MGSSC2026-57 MGSSC2026-74 MGSSC2026-90
5.40PM	END OF DAY ONE		

TIME/DATE	12 TH NOVEMBER 2026 (THURSDAY)		
8.30AM - 9.15AM	KEYNOTE ADDRESS 5 Ir. Dr. Ooi Lean Hock <i>(Geotechnical Director, Gamuda Berhad)</i>		
9.15AM - 10.00AM	BRIGHT SPARK LECTURE - GeoSS - From Liquefaction Challenges to Micro-scale Soil Mechanics: Integration of Geotechnical Tests and AI Vision Dr. Zhiyong Zhang <i>(Senior Geotechnical Specialist, Coastal Engineering, Surbana Jurong Group)</i>		
10.00AM - 10.30M	MORNING TEA BREAK		
10.30AM - 1.00PM	TIME	TECHNICAL SESSION 5 (Sipadan III)	TECHNICAL SESSION 6 (Kinabalu Room)
	10.30am - 10.45am 10.45am - 11.00am 11.00am - 11.15am 11.15am - 11.30am 11.30am - 11.45am 11.45am - 12.00pm 12.00pm - 12.15pm 12.15pm - 12.30pm 12.30pm - 12.45pm 12.45pm - 1.00pm	Theme: Excavations and Retaining Structures Session Chairman: TBA MGSSC2026-09 MGSSC2026-13 MGSSC2026-16 MGSSC2026-19 MGSSC2026-46 MGSSC2026-48 MGSSC2026-51 MGSSC2026-69 MGSSC2026-71 MGSSC2026-84	Theme: Shallow and Deep Foundations Session Chairman: TBA MGSSC2026-03 MGSSC2026-27 MGSSC2026-30 MGSSC2026-43 MGSSC2026-47 MGSSC2026-56 MGSSC2026-58 MGSSC2026-66 MGSSC2026-77 MGSSC2026-97
1.00PM - 2.00PM	LUNCH		

TENTATIVE PROGRAMME

2.00PM - 2.45PM	KEYNOTE ADDRESS 6 - Sustainable Site Investigation for Safer Underground Tunnelling Dr. Chepurthy Veeresh <i>(Deputy Director, Geotechnical & Tunnels Division)</i> <i>Infrastructure Specialist & Center of Excellence for Tunneling, Singapore</i>		
2.45PM - 3.30PM	BRIGHT SPARK LECTURE MGS - From Black Box to Ground Model: Interpretable Deep Learning for Jacking Force Prediction and Geotechnical Characterisation in Pipe Jacking Lit Yen Yeo <i>(Teaching Assistant)</i> <i>Swinburne University of Technology, Sarawak Campus</i>		
3.30PM - 4.00PM	AFTERNOON TEA BREAK		
4.00PM - 5.20PM		TECHNICAL SESSION 7 (Sipadan III)	TECHNICAL SESSION 8 (Kinabalu Room)
	4.00pm - 4.15pm 4.15pm - 4.30pm 4.30pm - 4.45pm 4.45pm - 5.00pm 5.00pm - 5.15pm 5.15pm - 5.30pm	Theme: Tunnelling and Underground Space Development Session Chairman: TBA MGSSC2026-25 MGSSC2026-31 MGSSC2026-38 MGSSC2026-59 MGSSC2026-61 Theme: Engineering Geology and Rock Mechanics MGSSC2026-07	Theme: Field Testing and Performance Monitoring Session Cairman: TBA MGSSC2026-86 MGSSC2026-89 MGSSC2026-93 MGSSC2026-94 MGSSC2026-95 MGSSC2026-96
5.40PM - 5.50PM	CLOSING CEREMONY		

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SUB THEME: SOIL CHARACTERIZATION AND PROPERTIES

PAPER ID	ABSTRACT TITLE
MGSSC2026-22	Machine Learning for Inferring Missing Soil Parameters <i>Siau Chen Chian, Zhichao Shen, Chun Fai Leung, Jurong Bi, Hitesh Halai, Nicolas Gabriel Lin Hao Lee</i>
MGSSC2026-49	Elastic Moduli of Cement-Mixed Soil <i>Lup Wong WONG</i>

SUB THEME: GROUND IMPROVEMENT AND STABILIZATION

MGSSC2026-18	The Slope Stability Enhancement using Mass Soil Mixing Method (MSM) along Existing Ulu Pandan Canal <i>Shwu Ying LOO, Naw Ja, Liou Tee</i>
MGSSC2026-34	Integration of Groundlocks into the GeoBarrier System for Enhanced Slope Stabilisation <i>Yuan Shen Chua, Yongmin Kim, Alfrendo Satyanaga, Eriko Dewangga, Chee Kiong Benny Neo</i>
MGSSC2026-50	Case Study of Ground Improvement Using Prefabricated Vertical Drain (PVD) and Surcharge Preloading for Road Widening on Marine Clay Deposit <i>Allan Chwee, Balakrishnan Ety Gaunder</i>

SUB THEME: GROUND IMPROVEMENT AND STABILIZATION

MGSSC2026-53	Ground Improvement by Deep Soil Mixing (DSM) to support 14m Reinforced Soil Wall <i>Jet Si, Zhi Wei He, Madan Annam Kumar</i>
MGSSC2026-68	Numerical Back-Analysis of Tank Hydrotest Response of Vibro-Compacted Sands in Singapore <i>Felipe Miranda, Lavanya Dwarampudi, Hong Lin Lee</i>
MGSSC2026-70	The Effectiveness of Ground Improvement Works using Controlled Modulus Column Method for Low-Storey Warehouse in Shah Alam, Selangor, Malaysia <i>Nicholas Foo, Xiuyuan Liu, Liza Tajul Aripin, Kie Hui Tan</i>
MGSSC2026-92	Case Studies of Challenges in Application of Deep Cement Mixing (DCM) in Singapore Geological Conditions <i>David C.C Ng, Zi Hou Tee, Victor C.W. Ong, Katherine, Li Ying Wong</i>

SUB THEME: SHALLOW AND DEEP FOUNDATIONS

MGSSC2026-3	Design and Construction of Mixed Foundation Method on Residential Development <i>Fong Wah Chee</i>
MGSSC2026-27	Vertical Load Response of Prestressed High Strength Concrete Piles in Dhaka Clay: An Experimental and Numerical Study <i>Sabrina Ahamed Hridita, Zisan Zia</i>
MGSSC2026-30	Application of High Capacity Micropiles for Foundation Remedial Works <i>Desmond Lee</i>
MGSSC2026-43	Reverse Circulation Drilling for Bored Piles Construction in Bukit Timah Granite <i>Jen Yang Goh, Oliver Garcia Machin, Michael Lindo Dimaandal, Chuan Jooi Chai, Yee Ching, Jasmine Eng, Eun Dae Kim</i>
MGSSC2026-47	Designs and Performance of Piled-Raft Foundations constructed within Existing Basements <i>Poh Hai Ooi, Jeen Ching Chiong</i>
MGSSC2026-56	Engineering Challenges in the Construction of Viaduct Pier Foundation in Karstic Limestone Formation and Road Embankment using EPS – Case Study <i>Sharmeelee Subramaniam, Balakrishnan EG</i>
MGSSC2026-58	Constructability Pitfalls in Near Coastal Foundation Works on Soft Ground <i>Azam Syariff Zahar, Soh Tek Peng, Puspanathan Subramaniam</i>
MGSSC2026-66	Performance of Jack-in Pile in Reclaimed Land at Coastal Area <i>Kah Peng Ong, Yean Chin Tan, Peir Tien Lee, Yee Hwa Low</i>
MGSSC2026-77	Performance of Micropiles in Granitic Residual Soil Formation: A Case Study <i>Syed Muhammad Bahthiar Syed Osman, Eng Boon Cheng, Edayu Saleh</i>
MGSSC2026-97	Holistic Design Approach for Piles in Consolidating Ground <i>R. Khoo, T.G. Ng, D.T.K. Tse, W.L. Lee, C.H. Lim, K.Y. Foo, D.H.Y. Leow</i>

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SUB THEME: EXCAVATIONS AND RETAINING STRUCTURES

MGSSC2026-9	Buttressed Diaphragm Walling for A 20m Deep Geometrically Complex Excavation <i>Cheemin Khoo, Peir Tien Lee</i>
MGSSC2026-13	Use of Sand Compaction Piles as a Foundation for Coastal Bund and Dike Construction <i>Muthusamy Karthikeyan</i>
MGSSC2026-16	Performance of Buttressed Diaphragm Wall Combined with Top-down Construction for Controlling Excavation-Induced Wall and Tunnel Movement <i>Kim Hing Law, Frankie Cheah P.L.</i>
MGSSC2026-19	Earth Retaining or Stabilising Structures Design with Temporary Removable Ground Anchor in Old Alluvium <i>Jimmy Pang Choon Ming, Long Wenjiu, Tong Yuqiang</i>
MGSSC2026-46	Sustainable Redevelopment of Deep Basements Using Retained Diaphragm Walls and Circular Shaft Excavation Techniques <i>P.H. Ooi, T.Z. Yan, S.L. Yap, J.C. Chiong, S.X. Tiew, E.S. Teoh, C.L. Low, H.S. Low and K.J. Low</i>
MGSSC2026-48	Challenges in the Design and Construction of Deep Basements in Phnom Penh, Cambodia <i>Yee Eng Loh</i>
MGSSC2026-51	Performance Review of Diaphragm Wall System Using Soil Nails and Buttress Panels for Deep Excavation in Older Alluvium of Southern Peninsular Malaysia <i>Shaw Shong Liew, Jason Lim, Lii Binn Teo</i>
MGSSC2026-69	Design-Led Embodied Carbon Reduction in Geotechnical Engineering: An Excavation Case Study <i>Gowtham Ariyamuthu Pandian, Ravi Kumar, Felipe Miranda</i>
MGSSC2026-71	Automating Parametric Finite Element Analysis for Earth Retaining Design <i>Ewan Cheong, Ming Ze Chai, Jiahui Ho</i>
MGSSC2026-84	Performance-Based Groundwater Control for Deep Excavation in Bukit Timah Granite <i>Veeresh Chepurthy, Jerome Tiah, Jeyatharan Kumarasamy, George Lee, R Jaysankar</i>

SUB THEME: ENGINEERING GEOLOGY AND ROCK MECHANICS

MGSSC2026-7	Detailed Engineering Geological Mapping for Quantification of Hazard Assessment along a Buried Onshore Pipeline <i>Christian Hariady Girsang, Affiz Syam A Razak</i>
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SUB THEME: FIELD TESTING AND PERFORMANCE MONITORING

MGSSC2026-5	Field Performance Testing of Grass-Covered Dike Slopes under Wave Overtopping <i>Muthusamy Karthikeyan</i>
MGSSC2026-40	Pile Instrumentation and Monitoring Practices for Reliable Data Acquisition in Axial Pile Load Tests <i>Yong Ping Oh jason, Jon Sinnreich, Mohd Ashraf Mohamad Ismail, Poh Hai Ooi, Jeffery Guan Kiat Tay, Yoke Qin Claire Oh</i>
MGSSC2026-41	Performance and Interpretation of Bi-Directional Static Load Test in Sarawak, Malaysia <i>Yong Ping Oh jason, Jeffery Guan Kiat Tay, Jon Sinnreich, Mohd Ashraf Mohamad Ismail, Poh Hai Ooi, Yoke Qin Claire Oh</i>
MGSSC2026-42	Comparative Study of Compression and Tension Static Pile Load Tests for Bored Piles at Teck Ghee MRT Station <i>Chuan Jooi Chai, Jen Yang Goh, Oliver Garcia Machin, Yit Wah Chong, Lam King Wong, Yee Ching, Jasmine Eng, Kok Weng Tham, Krishnapillai Jeyarasan</i>

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MGSSC2026-82	Field Verification of Bearing Capacity Enhancement in Geogrid-Stabilised Platforms for Industrial Foundations <i>Joe Jiunn Lau, Siang Loong Tan</i>
MGSSC2026-86	Performance Assessment of Active Seismic Sources for Fibre-Optic Geotechnical Monitoring <i>Muhammad Yusoff Mohd Nasir, Hisham Mohamad, Takeshi Tsuji, Muhammad Farid Ghazali, Muhammad Noor Adam Kamaruzaman</i>
MGSSC2026-89	Real-Time Condition Monitoring and Fault Detection of Operational MVUG Cables Using Distributed Acoustic Sensing <i>Muhammad Farid Ghazali, Hisham Mohamad, Muhammad Yusoff Mohd Nasir, Afiah Mohd Nasri</i>
MGSSC2026-93	Performance of Bored Piles Constructed in Limestone Formation with Cavities: Case Histories on Cement-grouted and Untreated Cavities Interpreted from Pile Load Tests <i>Zi Xun Eng, Soon Hoe Chew, Hui Hock Tan</i>
MGSSC2026-94	Application DFOS for Assessment of Reaction System Effects in Static Pile Load Tests Using Jack-In Machine <i>Chang Chyau Chiew, Zi Xun Eng, Hock Yew Yap</i>
MGSSC2026-95	Integrated Geophysical and Geotechnical Investigation for Landslide Assessment Using Multi-Channel Analysis of Surface Waves and Electrical Resistivity Tomography: A case study of Vilangad, Kerala, India. Multi-Channel Analysis of Surface Waves and Electrical Resistivity Tomography: A Case Study of Vilangad, Kerala, India <i>G Vinay, Aniket Desai, Madhavan K</i>
MGSSC2026-96	Good Practices for Field and Laboratory Tests for Characterisation of Marine Clays <i>T.G. Ng, R. Khoo, D.T.K. Tse, W.L. Lee, C.H. Lim, K.Y. Foo, D.H.Y. Leow</i>

SUB THEME: DESIGN ANALYSIS AND MODELLING

MGSSC2026-8	Geotechnical Design and Numerical Modelling of Slope Failure Remediation at KM269.17, Jalan Sandakan–Telupid, Sabah, Malaysia <i>Kok Jyh Tan</i>
MGSSC2026-10	3-D Finite Element Modelling and Construction Performance of Three-sided Shaft Walls Excavation <i>Chee Min Khoo, Wayne Foong</i>
MGSSC2026-12	A Discussion on Settlement Estimation for Revetment Founded on Ground Supported by DCM Columns <i>Huawen Xiao, Yaodong Zhang</i>
MGSSC2026-15	Performance and Numerical Study of an Anchored–Buttressed Diaphragm Wall in Limestone Formation <i>Kim Hing Law, Nyuk Jyi Chin, Allan Jude Gomez</i>
MGSSC2026-36	Soil–Pipe Interaction and Construction Performance of a 2.2 m Diameter Pipe Jacking Drive Adjacent to Multiple Existing Underground Infrastructures <i>Long Guang Lee, Victor C.W. Ong, David C.C Ng</i>
MGSSC2026-37	Comparative Finite Element Prediction of ERSS Behaviour in Deep Excavation: Validation against Field Monitoring in Kallang Formation, Singapore <i>Long Guang Lee, Victor C.W. Ong, David C.C Ng, Zi Hou Tee</i>

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MGSSC2026-79	Optimisation of Earth Retaining Structure Design for a Deep Excavation Project by 3D FEM <i>Wai Mon Thi, Michael Williamson, Ashok Somasundaram, Ngui Weichiun, George Lee</i>
MGSSC2026-87	From Suffusion to Piping Breach: Numerical Simulation of Progressive Internal Erosion in Upstream Tailings Dams <i>Stephanie Ivy Luna, Hideki Shimada, Takashi Sasaoka, Akihiro Hamanaka, Thema Arrisaldi</i>
MGSSC2026-88	When Can Internal Erosion Lead to Failure? A Three-Criterion Framework for Internal Erosion Induced-Failure <i>Stephanie Ivy Luna, Hideki Shimada, Takashi Sasaoka, Akihiro Hamanaka, Marco Anos Boco</i>

SUB THEME: TUNNELLING AND UNDERGROUND SPACE DEVELOPMENT

MGSSC2026-25	Advanced Geophysical Techniques for Tunneling and Underground Structures <i>Sanjay Rana</i>
MGSSC2026-31	Transforming Underground Linkway Construction: Rectangular Pipe Jacking Machine at Teck Ghee MRT Station <i>Jun Jie Foo</i>
MGSSC2026-38	Simple Faceless Tunneling Method for Construction of Road Tunnel Above Operational Rail Tunnels in Singapore's Kallang Formation <i>Yongjia Chen, Bryan Chiew, George Lee</i>
MGSSC2026-59	Application of Polyethylene Geomembrane as Waterproof Lining in Tunnel Engineering <i>Colin Lim</i>
MGSSC2026-61	Implications of Foam Stability and Time Effects for EPB Soil Conditioning Assessment <i>Ming Ze Chai, Jiahui Ho, Yuanzong Xiao, Eolanda Wai Yin Tong</i>

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MGSSC2026-4	Advancements in Soil Nails and Ground Anchors using Glass-fibre Reinforced Polymer (GRP) Tendons <i>Greg Sieders</i>
MGSSC2026-6	Root Cause of Soil Settlement of an Onshore Receiving Facilities (ORF) Sitting on Soft Deposit <i>Christian Hariady Girsang, Noorizal Nasri Huang</i>
MGSSC2026-14	A Digital Approach to Landslide Risk Management and Monitoring: Development and Impact of Penang's Landslide Information System <i>Kathireen Kalaivani Rajamanickam, Hakam Hamid, Jia Jun Tan, Yaw Ming Chin</i>
MGSSC2026-57	Cell 8 Development at Seelong Sanitary Landfill: Design Considerations for Liner and Leachate Collection System <i>Soh Tek Peng, Nur Haziera Ramlan, Azam Syariff Zahar, Puspanathan Subramaniam, Tan Chee Lee, Leng Yee Hui</i>
MGSSC2026-74	Landslide Risk in Penang: Identifying Past Landslide with Historical Topography Map <i>Hakam Hamid, Kathireen Kalaivani Rajamanickam, Jia Jun Tan, Yaw Ming Chin</i>
MGSSC2026-90	Carbonated Recycled Concrete Aggregate Fines as a Sustainable Sand Substitute for Geotechnical Applications <i>Jiahui Ho, Nicholas Darius Devan Murali, Ming Ze Chai</i>

IMPORTANT NOTE

The papers listed in this Bulletin have been accepted for presentation at the Conference. Their inclusion in the final technical programme and Conference proceedings remains subject to the presenting authors completing registration and confirming their in-person participation. Accordingly, the final programme and proceedings may differ from the list published herein. The Organising Committee reserves the right to make any necessary revisions.

3rd MGS-GeoSS

GEOTECHNICAL CONFERENCE 2026

11 – 13 NOVEMBER 2026

Sabah International Convention Centre
Kota Kinabalu, Sabah**SABAH**

MALAYSIA



ACCOMMODATION OPTIONS

Hotels in the vicinity of Sabah International Convention Centre (SICC)

HOTEL	RATING	DISTANCE FROM SICC
Le Méridien Kota Kinabalu	5 ★	3.1 km / 10 min drive
Grandis Hotels & Resorts (Grandis Hotel)	4 ★	1.5 km / 3 min drive
Mercure Kota Kinabalu City Centre	4 ★	1.5 km / 5 min drive
Hotel N°5	3 ★	6–7 km / 12–18 min drive
LUMA Hotel – A Member of Design Hotels	4 ★	1.5 km / 4–5 min drive
Hyatt Regency Kota Kinabalu	5 ★	2.2 km / 6 min drive
Hyatt Centric Kota Kinabalu	5 ★	1.8 km / 5 min drive

HOTEL RESERVATION

- **Hyatt Regency:** Designated booking link:
<https://www.hyatt.com/events/en-US/group-booking/BKIKI/G-EI31>
- **Hyatt Centric:** Designated booking link:
<https://forms.cloud.microsoft/r/D0Yih6J7Ji>
- **Other hotels:** Please quote “IEM Sabah” when making reservations.

Note: The hotels listed above are provided for participants' reference and convenience. Participants are advised to make their accommodation arrangements directly with the respective hotels.



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11 – 13 NOVEMBER 2026 | Sabah International Convention Centre,
Kota Kinabalu, Sabah

Sabah
MALAYSIA

TECHNICAL SITE VISIT TO SEPANGGAR CONTAINER EXPANSION PROJECT

A STRATEGIC MARINE INFRASTRUCTURE DEVELOPMENT IN SABAH

The Sepanggar Bay Container Port (SBCP) is Sabah's principal container and transshipment gateway, strategically located in Kota Kinabalu to serve the BIMP-EAGA growth corridor. Operated by Northport (Malaysia) Bhd, the port is undergoing a major expansion to increase terminal capacity from 500,000 TEUs to 1.25 million TEUs.

This technical visit offers a valuable opportunity to learn about the project's reclamation works, modern deep-sea container terminals, and supporting infrastructure, as well as the geotechnical and marine engineering considerations involved.



Sepanggar Container Port (SBCP)



PROGRAMME (SUBJECT TO CHANGE)

07:45 – 08:00	Registration at SICC Lobby (Ground Floor)
08:00 – 08:30	Depart to Sepanggar Port (By coach)
08:30 – 08:45	Arrival at Sepanggar Port <ul style="list-style-type: none">RegistrationSafety Briefing
08:45 – 09:15	Project Briefing (Northport representative)
09:15 – 10:00	Site Visit – Phase 1 Reclamation & Marine Works
10:00 – 10:45	Site Visit – Phase 2 Terminal Yard & Infrastructure Works
10:45 – 11:15	Site Visit – Phase 3 Container Terminal Facilities
11:15 – 11:45	Q&A / Discussion
11:45 – 12:30	Depart to SICC
12:30 (approx.)	Arrival at SICC (End of Site Visit Programme)



DATE
13 NOVEMBER 2026 (FRIDAY)



TIME
7:45 AM – 12:30 PM (approx.)



VENUE
Sepanggar Container Port,
Kota Kinabalu, Sabah



TRANSPORT
By coach (depart from SICC)



SITE SAFETY REQUIREMENTS

- All visitors must comply with site safety, security, induction, PPE and access procedures.
- Safety helmet and vest will be provided and must be returned after use.
- Participants must bring their own safety shoes or boots.



IMPORTANT NOTE

The project owner has only agreed to receive **30 participants**. Participation will be on a first come first served basis. Only participants who receive confirmation from the Conference Organiser will be able to participate in the visit. Participants can check the list at the Conference Notice Board located near the Secretariat counter on the first day of the conference.

REGISTER FOR THE TECHNICAL VISIT

Scan the QR code or use the Google Form link to register your interest.



GOOGLE FORM LINK

[Click on this link to register](#)

REGISTRATION DEADLINE: 31 OCTOBER 2026

Registration does not guarantee a place. Participation is limited to 30 persons on a first come, first served basis. Only participants confirmed by the Conference Organiser may attend.



REGISTRATION FEE

CATEGORY	EARLY BIRD (Extended to 31 August 2026)	NORMAL (after 31 August 2026)
Academic Presenter	RM700.00	RM800.00
MGS / GeoSS / IEM Member	RM700.00	RM800.00
Non-Member	RM1,000.00	RM1,280.00
Student (Local - Malaysian & Singaporean)	RM500.00	RM600.00
Student (Foreign)	RM600.00	RM700.00



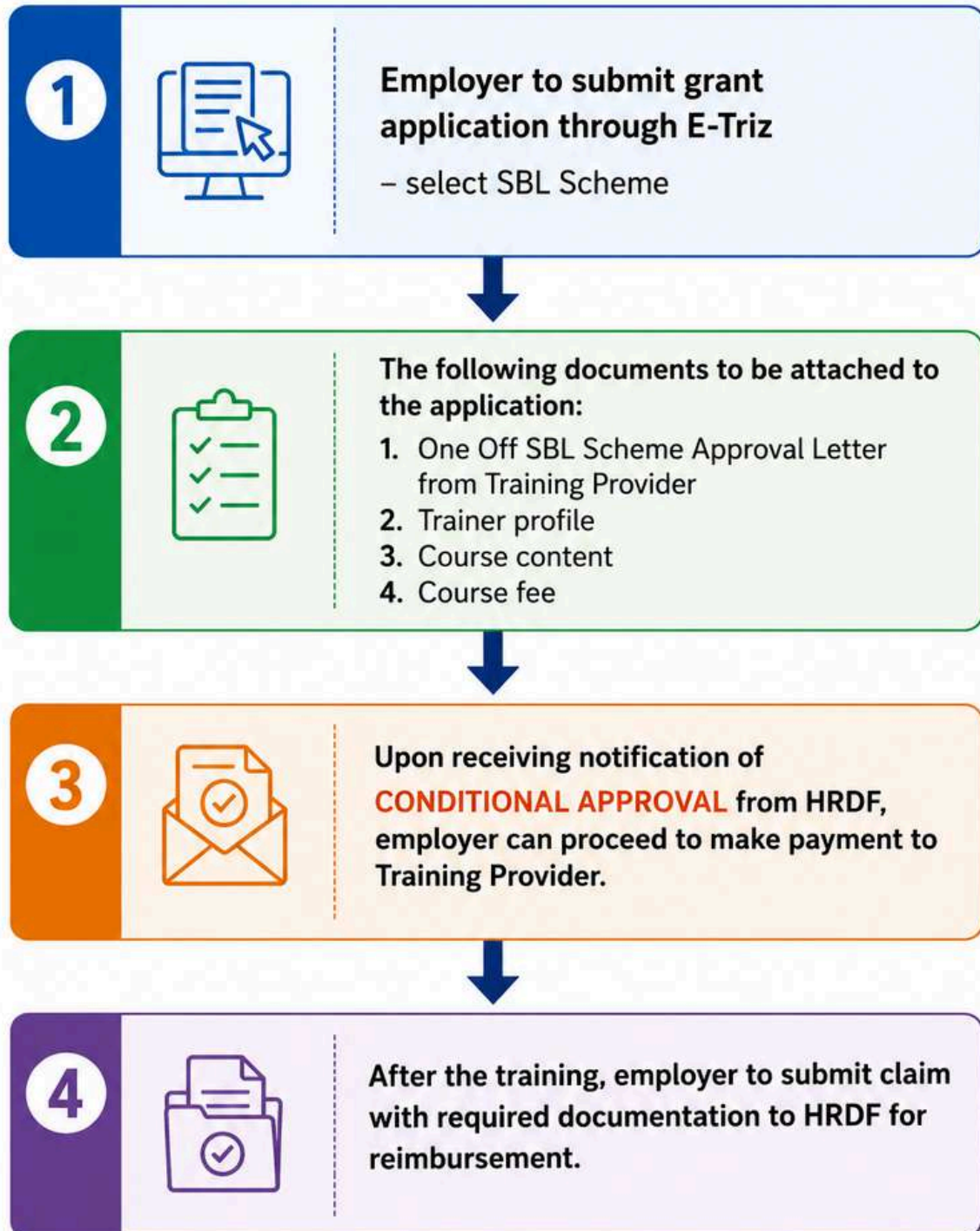
Scan this QR code or
[CLICK ON THIS LINK](#)
 for online registration



For application to HRDF, please
 refer attached flowchart



FLOW CHART FOR APPLICATION TO HRDF FOR SBL SCHEME GRANT



REGISTRATION FORM

No	Name	MGS/GeoSS M'ship No	Identity Card/ Passport No	Fee (RM)
TOTAL PAYABLE				
PAYMENT METHOD				☐ ONLINE BANKING ☐ CREDIT CARD PAYMENT

Payment Method:**1. ONLINE BANKING**

Payee : Pertubuhan Geoteknikal Malaysia

Bank Account No : 281-000- 12316

Bank Name : Hong Leong Bank Berhad

Bank Address: No. 9 & 11, Jalan 52/2, PJ New Town, 46200 Petaling Jaya, Selangor, Malaysia

Swift code: HLBBMYKL

2. CREDIT CARD PAYMENT

Payment link through STRIPE will be issued upon request.

Please indicate payment method on the form.

Please email the transaction receipt to mgs@mygeosociety.com for verification purpose. For any enquiries, please write to mgs@mygeosociety.com

TERMS & CONDITIONS

FULL PAYMENT must be settled before commencement of the Conference, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the Conference, the fee is STILL to be settled in full. The fee paid is not refundable.

The Organizing Committee reserves the right to cancel, alter, or change the programme due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, interested participants are advised to send their registrations as early as possible to avoid disappointment.

CANCELLATION POLICY

Cancellation after registration will not be considered. However, replacement of registered participant can be made with prior notice to the organizer not later than 30th September 2026. The replacement participant will be charged according to the registration fee category.

COMPANY NAME:	
COMPANY ADDRESS	
CONTACT PERSON	NAME: _____ Contact No: (O) _____ (H/P) _____
Email Address	