

The Institution of Engineers, Malaysia

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Half-Day Seminar on "Sustainable Slope Reinforcement and

IoT Early Warning System"

(Co-organised with Maccaferri Malaysia Sdn. Bhd.)

Date	:	Saturday,	19 July	2025
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Time : 9:00 a.m. – 1:00 p.m.

Venue : IEM (Southern Branch) Training Centre, Johor Bahru

Speaker : Ir. Saiffuddin bin Sheafi – Technical Manager, Maccaferri Malaysia Sdn. Bhd.

<u>Synopsis</u>

As slope instability and rockfall risks continue to increase, engineers must integrate sustainable reinforcement solutions with AI-powered early warning systems to enhance safety and resilience.

This half-day seminar will cover two key advancements:

- Sustainable Slope Reinforcement with TerraMesh[™] A high-performance modular system that provides longterm stability, environmental integration, and a cost-effective alternative to traditional retaining walls.
- **IoT-based early warning systems enhance safety** Exploring how automation, real-time monitoring, and predictive analytics are transforming slope protection and risk mitigation.

Packed with practical insights and real-world applications, this session equips engineers, developers, and policymakers with the tools to build safer, smarter, and more sustainable infrastructure.

Time	Tentative Programme				
8:30 a.m. – 9:00 a.m.	Registration				
9:00 a.m. – 9:05 a.m.	Welcome Speech by IEM (SB) Organizing Committee and Maccaferri				
9:05 a.m. – 10.30 a.m.	Session 1				
10:30 a.m. – 10:45 a.m.	Coffee Break				
10:45 a.m. – 12:30 p.m.	Session 2				
12:30 p.m. – 1:00 p.m.	Question & Answer Session				
1:00 p.m.	Closing & End of Talk				

About the Speakers:



Ir. Saiffuddin bin Sheafi is an engineering professional with over 18 years of experience in consultancy, contracting, and manufacturing within the hydropower, mining, and water resources sectors. Currently serving as the Technical Manager at Maccaferri Malaysia, he has played a pivotal role in delivering engineering solutions for both local and international projects, often in highly challenging topographical and climatic conditions. His expertise spans the entire project lifecycle, from feasibility studies and design to project management, construction, commissioning, and operations, across both traditional project delivery and EPCM models.

Throughout his career, Ir. Saiffuddin has been actively involved in major infrastructure and resource projects, specialising in the design, construction, and management of tailings and water dams, tunnels and underground structures, mine waste dumps, rock slope stability, dam safety, flood mitigation, and risk assessments. His deep technical knowledge, coupled with a strategic approach to engineering solutions, ensures sustainable and innovative project outcomes. Committed to excellence in geotechnical and structural engineering, he continues to contribute to the advancement of the industry through his leadership and expertise.

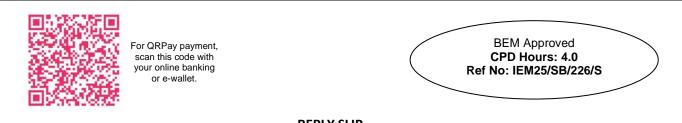
Participant Fees:

Grade	Fee				
IEM Members	RM 90.00				
Non-IEM Member	RM 150.00				
Closing Date: 15 July 2025					



Registration will be on a first-come-first-serve basis. Kindly return the reply slip to the IEM (SB) office before <u>15 July 2025</u> together with a non-refundable cheque for the participant fees made payable to <u>The Institution of Engineers, Malaysia</u> <u>(Southern Branch)</u>. Alternatively, you could bank-in the participant fees into the Institution's Maybank Current Account (No. 5-013920-15708), and to facsimile both the Bank-in and Reply Slips to the Institution. The Institution requests all members co-operation in ensuring fees are paid in advance for the seminar. Please also be reminded that fees will not be refunded to absent participants who have paid, and to also note that all reservations must be paid despite participant cancellations. Thank you for your continuous support of the Institution.

Chairman, Sub-Committee on Seminar and Technical Talk, IEM (SB)



REPLY SLIP

To: Hon. Secretary, The Institution of Engineers, Malaysia (Southern Branch) <u>WhatsApp: 07 – 3363406</u> Half Day Seminar on "Sustainable Slope Reinforcement and Al-Driven Disaster Prevention"

Saturday, 19 July 2025, 9:00 a.m. – 1:00 p.m. At IEM (Southern Branch) Training Centre, Johor Bahru.

I	wish	to	attend	the	above	talk.	I	enclosed	herewith	а	cheque	no.	 for	the	amount	of
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Note : *Kindly email the Reply Slip together with the payment slip to iemsouthern@gmail.com for confirmation.* : *Attendance by representative will not be issued with the Certificate of Attendance.*

PERSONAL DATA PROTECTION ACT

I have read and understood IEM's Personal Data Protection Notice published on IEM's website at www.myiem.org.my and I agree to IEM's use and processing of my personal data