

## Half-Day Seminar on “Sustainable Slope Reinforcement and IoT Early Warning System”

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

**Date** : Saturday, 19 July 2025  
**Time** : 9:00 a.m. – 1:00 p.m.  
**Venue** : IEM (Southern Branch) Training Centre, Johor Bahru  
**Speaker** : Ir. Saifuddin bin Sheafi – Technical Manager, Maccaferri Malaysia Sdn. Bhd.

### Synopsis

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 long-term 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.	<b>Session 1</b>
10:30 a.m. – 10:45 a.m.	Coffee Break
10:45 a.m. – 12:30 p.m.	<b>Session 2</b>
12:30 p.m. – 1:00 p.m.	Question & Answer Session
1:00 p.m.	Closing & End of Talk

### About the Speakers:



**Ir. Saifuddin 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. Saifuddin 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**

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BEFORE 24 JUNE 2025  
RM 70.00 NETT**

Registration will be on a first-come-first-serve basis. Kindly return the reply slip to the IEM (SB) office before **15 July 2025** together with a non-refundable cheque for the participant fees made payable to **The Institution of Engineers, Malaysia (Southern Branch)**. 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)*



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To: Hon. Secretary, The Institution of Engineers, Malaysia (Southern Branch) **WhatsApp: 07 – 3363406**

**Half Day Seminar on “Sustainable Slope Reinforcement and  
AI-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 a cheque no. .... for the amount of RM.....as payment for the participant fee.

Name of Member: ..... Membership No: ..... I/C No: .....

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Signature: ..... Date: .....

**Note** : Kindly **email the Reply Slip together with the payment slip to [iemsouthern@gmail.com](mailto:iemsouthern@gmail.com)** for confirmation.  
: Attendance by representative will not be issued with the Certificate of Attendance.

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