



## Half Day Seminar

### Smart Rockfall Protection: Enhancing Safety with IoT Early Warning System

#### *Synopsis*

Malaysia's steep terrain and heavy rainfall increase the risk of rockfall, threatening infrastructure and public safety.

While traditional rockfall protection help, IoT-based early warning systems enhance safety by detecting movement and sending real-time alerts.

Aligned with the UN's 2027 early warning mandate, this workshop explores smart rockfall protection solutions and features a live demo of Maccaferri eDesign software for the design.



**23 Apr 2025 (Wed)**



**8.30am – 12.30pm**



IEM Penang Office  
1-04-02, E-Gate  
Lebuh Tunku Kudin2  
11700 Penang



**BEM CPD Hours: 4**  
Ref: IEM25/PG/083/S

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**IEM Member: FOC**  
**Non-IEM Member: RM 60**

## About the Speaker



Speaker:  
**Ir. Saiffuddin bin Sheafi**

Ir. Saiffuddin bin Sheafi is a seasoned 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 traditional project delivery and EPCM models.

Throughout his career, Ir. Saiffuddin has been actively involved in major infrastructure and resource projects, specializing 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.

## Agenda

Time	Descripton
08.30am - 9.00am	Registration
09.00am - 10.30am	Session 1: Malaysia's rockfall challenges, the role of real-time detection and alerts, and the UN's 2027 early warning mandate.
10.30am - 11.00am	Tea break
11.00am - 12.10pm	Session 2: Live demo of Maccaferri eDesign software.
12.10pm - 12.30pm	Q&A