1-Day Seminar

Slope Stabilization and Hazard Monitoring in Tropical Climate

Synopsis

Understanding key design parameters is essential for engineers implementing advanced slope stabilization—particularly in tropical climates where intense rainfall and weathered terrain increase geohazard risks.

This full-day course provides in-depth technical training on the use of the high-tensile steel wire mesh system, a reliable and efficient method for stabilizing soil and rock slopes. As a flexible system, TECCO® adapts to a wide range of ground conditions and is supported by RUVOLUM®, an open-source software that enables performance-based design and data-driven modelling for precise anchorage and layout planning.

The course also covers GUARD, a remote hazard monitoring system that delivers real-time data and early warnings of slope movement, supporting proactive risk mitigation.

With field-proven applications and regional case studies, this session equips engineers, consultants, and project managers with the practical knowledge to implement safe, resilient, and cost-effective slope protection solutions tailored to tropical environments.

IEM
The Institution of Engineers, Malaysia
(Penang Branch)

In collaboration with:

ALPHA PINNACLE

21 May 2025(Wed)

8.30am – 5.30pm

IEM Penang Secretariat, 1-04-02, eGate, Lebuh Tunku Kudin 2, 11700 Penang

BEM CPD Hours: 6
Ref: IEM25/PG/159/S

IEM Member : FOC
Non-IEM Member: RM 120

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About the speaker

DENNIS GROSS
Regional Manager
GEOBRUGG AG
(Asia & Middle East)

Dennis Gross is a geotechnical specialist with over 20 years of experience in natural hazard mitigation. As the Regional Manager at GEOBRUGG AG, he leads projects across Asia and the Middle East. His technical career spans rock and soil slope stabilization, debris flow mitigation, and advanced simulation modelling. Dennis is known for integrating advanced engineering tools like RUVOLUM®, DEBFLOW® and GUARD into real-world applications, making slope design safer and smarter.

Dennis Gross holds a bachelor's degree in Construction Engineering, and Master's in Geology from the University of Freiburg, and a postgraduate certification from ETH Zurich in Natural Hazard Risk Management.

His technical career spans rock and soil slope stabilization, debris flow mitigation, and advanced simulation modelling. Dennis has conducted international training sessions and seminars in over twenty countries.

AGENDA

Time	Details
8:30am – 9:00am	Registration & breakfast
9:00am – 10:30am	Session 1
10:30am – 11.00am	Tea Break
11.00am - 12.30pm	Session 2
12.30pm - 1.30pm	Lunch
1.30pm - 3.30pm	Session 3
3.30pm - 4.00pm	Tea Break
4.00pm - 5.00pm	Session 4
5.00pm - 5.30pm	Q&A Certificates & photos