

WEBINAR TALK ON ENGINEERING RELIABLE SLOPE STABILISATION: DATA- DRIVEN METHODS AND PRACTICAL TOOLS

SPEAKER:

MR. DENNIS GROSS



**22 MAY 2025
THURSDAY**



10AM - 12PM

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SYNOPSIS

As rainfall events intensify and development encroaches on steeper terrain, slope stabilisation has become a critical concern in infrastructure, energy, and environmental projects across Malaysia and Southeast Asia. This webinar presents a modern, performance-based approach to engineering reliable slope stabilisation using high-tensile wire mesh systems, widely adopted for mitigating shallow landslides, rockfalls, and surface erosion on weathered slopes.

Participants will explore the scientific foundation and field validation behind these systems, including full-scale impact and pull-out tests that inform key engineering parameters. These real-world data sets form the basis of practical tools that support precise system selection, layout optimisation, and material planning.

A highlight of the session is a hands-on introduction to Rovulum—a specialised engineering tool designed to assist with the dimensioning of high-tensile mesh systems. Rovulum enables users to evaluate slope profiles, estimate anchoring requirements, generate system layouts, and produce detailed bill-of-materials based on actual site conditions. Attendees will learn how to integrate these tools into broader slope design workflows, ensuring greater accuracy, efficiency, and confidence in real-world applications.

This webinar is ideal for geotechnical engineers, civil engineers, consultants, and contractors involved in slope assessment, tendering, or protection system implementation.

SPEAKER'S PROFILE

Dennis Gross holds a bachelor's degree in Construction Engineering and a master's degree in Geology from the University of Freiburg, Germany. His master's research centered on the use of ground-penetrating radar in limestone applications. With over two decades of experience in the industry, Dennis has developed a deep specialization in working with contractors and specialists, particularly in the fields of geotechnical engineering and hazard mitigation. Since 2013, Dennis has been the Regional Manager for GEOBRUGG AG, a Swiss company known for its advanced solutions in protecting against natural hazards. In this role, he leads business development and manages important projects in Southeast Asia and the Middle East. His work includes designing systems to protect against rockfalls, stabilizing slopes, and preventing debris flows. He also uses advanced modeling and risk assessment tools to study geological hazards and ensure the safety of infrastructure and communities in high-risk areas. Dennis's expertise and leadership have made him a key figure in the industry. He provides innovative solutions to complex geotechnical problems, help to protect lives, infrastructure, and the environment from natural hazards.