

Half Day Seminar:

Effective Foundation Solution Using Mechanically Stabilised Layer & Basal Mattress

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Guest Speakers

Ir Lau Joe Jiunn
Design Manager - East Asia
Tensor International Limited

Mr Chan Chin Boon
Director of Mega Geosolutions
Sdn. Bhd.

 **8:30AM - 12:30PM**

 **22 June 2024 | Saturday**

 **IEM Secretariat Office, 1-04-02 E-Gate
Lebuh Tunku Kudin 2, 11700 Penang**

 **IEM Member: FOC | Non-IEM Member: RM60**

BEM CPD Hours : 4
Ref: IEM24/PG/143/S

Synopsis

Mechanically Stabilised Layer (MSL) is a soil stabilisation technique that refines and improves the engineering properties of soils. It is formed by a composite layer of unbound granular material and geogrid, which helps to improve the foundation's bearing capacity and mitigate differential settlement. When the project requires a more robust solution, a basal mattress can be introduced. It has been successfully used as an embankment and warehouse/factory foundations over soft soil since it was introduced 30 years ago. Basal mattress helped to increase structure stability, reduce lateral spread of foundation soil, and allow even load distribution on subgrade. The system is also defined as one of the applications of an embankment foundation described in BS 8006:2010.

This seminar will focus on the fundamentals and applications of MSL and basal mattresses in roads and foundations. **Limited seats available, register now to secure your spot.**

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About the speakers



Guest Speaker

Ir Lau Joe Jiunn

Design Manager - East Asia
Tensor International Limited

Ir Lau received his Bachelor of Engineering with Honors BEng (Hons) First Class Honors from the University of Putra Malaysia in 2015. He is a registered Professional Engineer with BEM and is a corporate member of IEM. He also serves the Technical Division of Geotechnical Engineering (GETD) in IEM as a co-opted committee. Upon graduation, he served as a Design Engineer in the geotechnical division of a consultancy firm and was actively involved in design and project management work. His experience includes the design and construction of earthwork, ground improvement work, shallow and deep foundation and basement, slope stability analysis, retaining structures, and highway alignment.

Ir Lau serves as the Design Manager at Tensor International Limited and is responsible for the EA region. He specializes in soil stabilization, reinforced soil structures, and advanced geotechnics.

Mr Chan has over 15 years experience in Civil Engineering and Construction Industry. He graduated from Universiti Sains Malaysia with a Bachelor Degree (Hons) in Civil Engineering. His experience includes working for consulting engineer Dr YG Tan Jurutera Perunding Sdn. Bhd. Since then he works for reinforced soil specialist, Mega Geoproducts and Services Sdn Bhd and Mega Geosolutions Sdn. Bhd. He is currently a General Manager in Mega Geosolutions Sdn. Bhd. His responsibilities include sales and marketing of geosynthetic materials, design and construction of reinforced soil structures, segmental retaining wall, slope rehabilitation works, ground improvement works and other specialised engineering works using geosynthetic material.



Guest Speaker

Mr Chan Chin Boon

Director - Mega Geosolutions
Sdn. Bhd.

Agenda & programme

Time	Details
8:00AM - 8:30AM	Registrations
8:30AM -10:15AM	Session 1: Mechanically Stabilised Layer
10:15AM - 10:45AM	Tea Break
10:45AM - 12:15pM	Session 2: Basal Mattress
12:15PM - 12:30PM	Q&A - End Session

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