

# REGISTER NOW !!!

7<sup>th</sup> JAN 2023  
(Saturday)

9 AM - 1 PM

Auditorium Tan Sri Prof. Chin Fung Kee,  
Third Floor Wisma IEM

Registration Fee  
Student Member : RM40  
Graduate Member : RM75  
Corporate Member : RM125  
Non-IEM Members : RM200

BEM Approved CPD : 4  
Ref No : IEM22/HQ/272/S

Explore the Application of Geogrids  
in Civil Engineering :

## SOIL STABILISATION WITH MECHANICALLY STABILISED LAYER (MSL)

**Soil stabilisation** is a technique that refines and improves the engineering properties of soils. When geogrids are combined with aggregates, it forms a Mechanically Stabilised Layer (MSL). It is based on the principle that granular particles confine and interlock effectively within the geogrid apertures. The application of MSL has the potential to help in reducing construction costs, as well as minimising the environmental impact to the surroundings. Hence, this technical talk aims to help engineers understand the following :

1. Fundamentals of soil stabilisation using geogrids.
2. Confinement (stabilisation) vs tensioned membrane effect (reinforcement).
3. Performance review.
4. Applications of mechanically stabilised layer (MSL).
5. Case studies.

### ABOUT THE SPEAKER !

**Ir. Lau Joe Jiunn**, received his Bachelor of Engineering with Honours BEng (Hons) First Class Honours from the University of Putra Malaysia. He is a registered Professional Engineer with BEM and a corporate member of IEM. Upon graduation, he worked as a Geotechnical Engineer who was actively involved in the design and project management of various infrastructure projects locally and overseas. He deals with various geotechnical works, including shallow and deep foundations, deep excavations and retaining structures, slope stability analyses, and ground improvement works in marine clay. Currently, Ir Lau serves as the Design Manager for Tensar International Limited, responsible for the APAC region.

### Who Should Attend ?

Civil engineers, project management personnel, and any person involved in designing and managing any project in the construction industry.

### SPEAKER

**Ir. Lau Joe Jiunn**

(B.Eng. Hons., P.Eng., MIEM)  
Design Manager for  
Tensar International Limited



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