

PROGRAMME

8.30 a.m.	Registration
9.00 a.m.	Course session
10.15 a.m.	Tea Break
10.30 a.m.	Course Session
12.30 p.m.	Lunch
1.30 p.m.	Course Session
3.15 p.m.	Tea Break
3.30 p.m.	Course Session
5.00 p.m.	End of Course

TRAINER

IR. DR. LOKE KEAN HOOI

PhD, MBA (Distinction), B.Eng. (1st Class Hons.)
MIEM, P.Eng., Asean Eng., APEC Eng., IntPE

Dr. Loke, graduated Doctor of Philosophy (PhD) in Geosynthetics Engineering and Bachelor of Engineering (Civil), with First Class Honours, from the University of Strathclyde, United Kingdom. Later in his career, he graduated Master of Business Administration (MBA) with Distinction, also from the University of Strathclyde, UK.

He has been involved in the research, manufacturing, consulting, design and teaching of geosynthetics for more than 25 years. He worked with several multi-national companies dealing with geosynthetics in senior management position and has been instrumental in the development of geosynthetics applications in Malaysia. He has conducted many courses on geosynthetics applications and technology to public and universities. He is also active in the development of Malaysia test standard for geosynthetics serving in working group, WG6 of Standard Malaysia.

Dr. Loke has authored and co-authored more than 50 technical papers in national and international publications. He is a certified trainer (with PSMB) and a lecturer at the University of Strathclyde UK, Business School for its MBA program.

REGISTRATION FEE

ACEM member firms	RM 600.00 per person
Others	RM 700.00 per person

The registration fee shall be made payable to 'The Association of Consulting Engineers Malaysia' by crossed cheque and to be submitted with the completed registration form by 6 August 2019 to:

The Association of Consulting Engineers Malaysia
Suite 20-9, Level 20, Menara 1MK
No. 1, Jalan Kiara, Mont' Kiara
50480 Kuala Lumpur

Fee will not be refunded for any cancellation. However, substitution of participants can be arranged by informing the organiser one week before the course commences.

CONTINUING PROFESSIONAL DEVELOPMENT

The course is eligible for 8 CPD hours for Professional Engineers registered with the Board of Engineers Malaysia, and a Certificate of Attendance will be issued subject to full attendance.

ENQUIRIES

For further enquiries, please contact the ACEM secretariat at tel. 012-5290031, 012-5190031 or e-mail sec@acem.com.my.

Course on Fundamentals of Geosynthetics Engineering

*(with emphasis on road construction and
reinforced soil structures)*

Thursday, 15 August 2019

(9.00 a.m. – 5.00 p.m.)

Hotel Armada Petaling Jaya
Lot 6, Lorong Utara C, Section 52
46200 Petaling Jaya

Organised by



The Association of Consulting Engineers Malaysia

INTRODUCTION

Geosynthetics engineering is a branch of engineering discipline cross linked with other disciplines such as civil, geotechnical, highway and environmental engineering. Although geosynthetics engineering has been used in the civil construction industry for over 30 years, the knowledge among engineers of the above discipline remains superficial. This is because geosynthetics engineering is never a taught discipline or subject at undergraduate level in most universities thus, leaving engineers ill-informed and unprepared when they enter the construction industry.

This course is intended to provide engineers with basic grounding on geosynthetics and their applications. Engineers will learn the types of geosynthetics and their functions. The course will focus on two key applications, namely road constructions and reinforced soil structures using geogrids. The course will highlight the latest development in geogrid technology and research findings. Engineers will be taught on the design using current design methods and shown the value proposition of using geosynthetics in these structures. Lastly, the course will emphasize on proper specifications to ensure performance of geosynthetics for the intended structure. Case references will be presented to show the viability and workability of geosynthetics solutions.

OBJECTIVES

- To provide engineers with basic knowledge and grounding of geosynthetics engineering.
- Design roads and reinforced soil structures using current design methods with geogrids.
- Familiar with correct specification to ensure performance of geosynthetics and avoid pitfalls.

WHO SHOULD ATTEND

Consulting engineers, government agencies, civil, geotechnical and road engineers, civil contractors, developers, design engineers, university lecturers, undergraduate and postgraduate students.

COURSE OUTLINE

About geosynthetics

- Definition, classification and types.
- Raw materials and manufacturing processes.
- Engineering functions.
- Workshop exercise on fundamentals of geosynthetics.

Geosynthetics for subgrade stabilization and pavement optimization (engineering and economic benefits)

- History of geosynthetics in roads.
- Differences in performance.
- Performance test is the indicator.
- Features of geogrid that influence performance.
- Mechanical stabilization versus tensioned membrane.
- Value proposition of mechanical stabilization.
- Design approach.
- Specification for stabilization geogrid.

Geosynthetics for reinforced soil structures

- Introduction.
- Components of reinforced soil design
- Facing system parameters.
- Design parameters for fill and foundation.
- Design parameters for reinforcement.
- Design parameters for interaction.
- Independent verification.
- Pitfalls to avoid.
- Internal and external stability.
- Design approach.
- Specification guideline for reinforcement geogrid.

REGISTRATION FORM

(to be returned by 6 August 2019)

Course on Fundamentals of Geosynthetics Engineering
(with emphasis on road construction & reinforced soil structures)

Thursday, 15 August 2019

Hotel Armada Petaling Jaya

Name: _____

Designation: _____ BEM PE No.: _____
(if applicable)

Organisation: _____

Address: _____

Telephone No.: _____

E-mail: _____
(confirmation of registration will be sent via e-mail)

Contact person: _____

Registration Fee

ACEM member firm RM 600.00 per person

Others RM 700.00 per person

Enclosed is cheque no. _____ for
RM _____ being registration fee for the course.

Signature & Company Stamp

Date