

Talk on Usage of Geosynthetic Products on Soft Ground or Reinforced Slope & Swedsun Bridge Expansion Joint System

Date : 14th April 2018 (Saturday)
Time : 7.00pm – 9.00pm
Venue : Seminar Room 1, Hills Shopping Mall, Kuching
Speaker : Mr. Lian Y.K. Har & Mr. Robert Lee Eng Heng

**Limit to the first FORTY (40) paid pax only*

Introduction

- ***Usage of Geosynthetic Products on Soft Ground or Reinforced Slope***

The reinforced soil technique is a thousand of years old concepts, and has experienced different types of reinforcing materials, from bamboo to steel strips, from tree branches to geogrids. The synthetic types of reinforcement have the advantage of providing greater durability, strength, proven experience and finally a more theoretical design approach.

The major advantages of using woven geotextiles and geogrids for designing and building a reinforced soil retaining wall are that the construction is quite simple and rapid, experienced craftsmen are not required and the final overall structure is flexible and ductile allowing differential settlements of the base without failure.

Due to the increase in cost of raw materials like rocks, aggregates and sand, one can reduce the usage or the aggregate thickness in building any road embankment by introducing nonwoven geotextile and woven geotextile.

This presentation covers the safe and economic design of vertical soil reinforced structures by the mean of geogrids.

- ***Swedsun Bridge Expansion Joint System***

This talk is to promote Bridge joint awareness to the public and a platform for young engineer graduate and engineers seeking career advancement and exchange knowledge.

Objectives

- 1) To give participants an understanding of the basic knowledge of using geosynthetic products and its application
 - a. The basic terms used in defining nonwoven geotextile and woven geotextile in general specification like tensile strength, water permeability etc.
 - b. The different type of geosynthetic products available in the market and their functions like non-woven and woven geotextiles
 - c. For green environment using geocell, Fibrodecx, Geosynthetic clay liner (GCL) , Erosion Control mat-DS, DC and DP, Coirlogs,
 - d. For reinforced slope system using geogrid wall or omega wall system
 - e. For marine works using of geotextile bags and geotextile tubes

- f. For river bank protection using Prefix-Sand filled Mattress
 - g. For soft ground using Prefabricated Vertical Drain (PVD) to quicken the process of consolidation of the ground and hence the overall settlement of the platform
- 2) Services provided by MTS Fibromat, inhouse design for geosynthetic material and to provide testing facilities for geosynthetic material. Featuring certain test method with ISO and ASTM method.

Biodata of the Speaker

1. Mr. Lian Y.K, Har

- Bachelor of Applied Science in Civil Engineering from University of Ottawa Canada in 1984

Working experiences:-

- 2012 – present – MTS Fibromat Sdn Bhd heading the technical department
- 2011 – 2012 – German Geosynthetic company, NAUE
- 2000 – 2011, part of the technical department at Emas Kiara Berhad, specializing in geosynthetic materials or products
- 1996 – 2000, setting up the technical department for Maccafferi specializing in gabions, Reno Mattress, Terramesh and Terramesh Green reinforced wall system.
- 1990 – 1995, Consultant at J.L. Richards and Associates Engineering Consultants
- Engineer for laboratory testing of all material in re-building the road linking from Tawau to Sandakan passing through Kinabatangan
- Project Engineer for construction firm in Langkawi, Kedah

2. Mr. Robert Lee Eng Heng

Programme

7.00pm – 7.10pm	Registration
7.10pm – 8.30pm	Talk on Usage of Geosynthetic Products on Soft Ground or Reinforced Slope
8.30pm - 9.00pm	Talk on Swedsun Bridge Expansion Joint System
9.00pm	End

1.5 CPD/PDP
 (BEM Approved PDP Hours)
 Ref. No.: IEM18/SWAK/151/T



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REGISTRATION FORM

Fees

<i>IEM Member</i>	<i>RM20.00</i>
<i>Non IEM Member</i>	<i>RM30.00</i>

Closing Date for Registration & Payment: 13th April 2018, Friday (not later than 5:00pm)

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To: Secretariat
 The Institution of Engineers Malaysia (Sarawak Branch)
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 93100 Kuching
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 E-mail: iemsarawak@gmail.com Website: www.iemsarawak.org

For the purpose of BEM-approved CPD/PDP hours, all IEM Members must provide their registration number.

No.	Name(s) in CAPITALS	Email Address	IEM No.	Fee (RM)
Total				

Enclosed herewith, a crossed cheque no.: _____ for the sum of RM_____ issued in favour of **"IEM (Sarawak Branch)"** or **Direct Bank in to The Institution of Engineers Malaysia (Sarawak Branch), Standard Chartered Bank, Account No. 420-1-5651-8528**. Kindly fax us your payment slip for direct bank-in and quote our reference when making payment. I/We understand that the fee is not refundable for no-show/cancellation after my/our registration (is) is/are accepted but substitution of participant(s) will be allowed. The Organizer reserves the right to cancel, alter or change the programme due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes.

Name of Department/Organization: _____

Address: _____

Tel (O): _____ Fax: _____ E-mail: _____

Contact Person: _____ Designation: _____

Date: _____ Signature: _____

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