



**THE INSTITUTION OF ENGINEERS, MALAYSIA**  
 Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 224 (Jalan Sultan), 46720 Petaling Jaya, Selangor  
 Telephone No. 03-7968 4001/2 Fax No. 03-7957 7678  
 Email: sec@iem.org.my Website: www.myiem.org.my

## REGISTRATION FORM

No	Name(s)	M'ship No.	Grade	Cost (RM)
<b>TOTAL (RM):</b>				

**\*\*\*IMPORTANT NOTICE\*\*\*** All registration fees must be FULLY paid before commencement of the course. IEM reserves the right to refuse entry for participant(s) who have not paid their registration fees to attend the course. THIS REQUIREMENT WILL BE STRICTLY ENFORCED.

\*\*I/We understand that the fee is not refundable if I/we withdraw after my/our registration is accepted but substitution of participants will be allowed. If I/we fail to attend the course, the fee paid will not be refunded.

**Name of Organization:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Tel(O):** \_\_\_\_\_ **Mobile No.:** \_\_\_\_\_

**E-mail:** \_\_\_\_\_

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

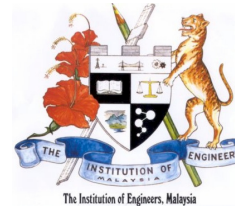
(Please write clearly for confirmation of registration purposes)

## PAYMENT DETAILS

(Email: ruhaida@iem.org.my / nurul@iem.org.my)

Cash: RM \_\_\_\_\_

Cheque no. \_\_\_\_\_ for the amount of RM \_\_\_\_\_ (non-refundable) and made payable to "THE INSTITUTION OF ENGINEERS, MALAYSIA" and crossed 'A/C Payee Only'.



## ONE DAY SHORT COURSE ON THE DESIGN, ANALYSIS AND PERFORMANCE OF REINFORCED SOIL STRUCTURES

**Friday, 17<sup>th</sup> June 2016**  
**8.30 am to 6.00 pm**

**Presenter:**  
**Mr. Michael Dobie**

**Venue:**  
**Kristal Ballroom 1, West Wing, PJ Hilton, Petaling Jaya, Selangor**

**Organised by:**  
**Geotechnical Engineering Technical Division (GETD), IEM**

BEM APPROVED CPD/PDP HOURS: 6.5  
 REF. NO.: IEM16/HQ/225/C

**REGISTRATION FEES: (INCLUSIVE GST)**  
**Website: www.myiem.org.my**

<b>Student Members</b>	<b>RM 212.00/person</b>
<b>IEM Members</b>	<b>RM 371.00/person</b>
<b>Non-IEM Members</b>	<b>RM 742.00/person</b>

(CLOSING FOR REGISTRATION: 15<sup>TH</sup> JUNE 2016)

## OUTLINE

This course covers the basics of reinforced soil structures (those constructed using geosynthetic polymer reinforcement), from material parameters, to methods of calculation used, and the factors required to ensure a safe design. It includes both basic information and ideas, as well as more advanced techniques, including possible approaches to designing according to EC7 and EC8. Information is presented which illustrates the performance of reinforced soil structures, under both static and seismic loading conditions, relating this to the design methods used. The course is divided into four sessions, covering topics as follows:

(A) Material properties: soil, reinforcement, interaction and facings, with a specific consideration of durability

(B) Calculation procedures based on limiting equilibrium: for wall design (facing steeper than 70 deg), slope design (facing less steep than 70 deg) and stability analysis

(C) Walls versus slopes: is there a difference?

(D) Specific look at different methods of wall design, and their merits

(E) Inclusion of earthquake loading for the seismic design case

(F) Looking at the serviceability design case by limiting post-construction strain

(G) Specific look at applying stability analysis (method of slices) to reinforced soil structures

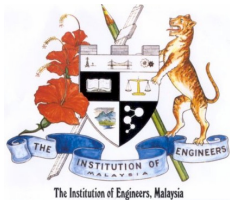
(H) Some comments on applying the FEM to reinforced soil structures

(I) Looking at factors used to achieve a satisfactory design: concept of factors applied to loads compared to factors applied to soil strength

(J) Introducing and comparing lumped safety factors with limit state design (BS 8006 and EC7)

(K) Performance under static loading

(L) Performance under seismic loading



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### TENTATIVE PROGRAMME

08:00am - 09:00am	Registration, Scan-in
09:05am - 09:10am	Opening Remarks & Introduction by Session Chairman
09:15am - 10:15am	Lecture 1
10:20am - 10:35am	Coffee/Tea Break
10:40am - 11:40am	Lecture 2
11:45am - 12:15pm	Questions and Answers Session
12:20pm - 02:20pm	Lunch / Friday prayer
02:25pm - 03:35pm	Lecture 3
03:40pm - 04:00pm	Coffee/Tea Break
04:05pm - 05:00pm	Lecture 4
05:05pm - 05:30pm	Conclusions
05:35pm - 06:00pm	Questions and Answers Session
06:05pm - 06:30pm	Scan-out & Collection of Certificate

### BIODATA OF PRESENTER



**Mr. Michael Dobie** is a Geotechnical Engineer with more than 40 years of experience, including 28 years working in SE Asia (Singapore, Malaysia and Indonesia). He graduated from Bristol University with a BSc in Civil Engineering, then a few years later from Imperial College, London with an MSc in Soil Mechanics. His experience includes working for consulting engineers (WS Atkins & Partners and Acer Freeman Fox) and for geotechnical specialists (Delft Soil Mechanics Laboratory and Dames & Moore).

One assignment consisted of setting up and running the Central Soils Laboratory (CSL) in Bangi, Malaysia for the North-South Expressway project. Since early 1991 Mike has been employed by Tensar International Limited as Regional Manager for Asia Pacific. He has had extensive input into the development of design methods and software, including the design of reinforced soil structures under seismic loading conditions. Mike's office is in Jakarta, Indonesia. Locally he is a Member of HATTI (Indonesian Geotechnical Society), and Vice President of the Indonesian Chapter of the International Geosynthetics Society (INA-IGS). He is a Chartered engineer, a Fellow of ICE and also a Fellow of CIHT. He is currently the Indonesia Country Representative of ICE.

### Terms & Conditions

- ✓ For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via Credit Card]
- ✓ Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- ✓ For online registrations, please note that **payment MUST be made on registration.**
- ✓ **FULL PAYMENT** must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non-refundable. Registration fee includes lecture notes, refreshment and lunches.
- ✓ The Organising Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

### Data Protection Act

- ✓ I have read and understand the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

### Cancellation Policy

- ✓ IEM reserves the right to postpone, reschedule, allocate or cancel the Course. No cancellation of registration will be accepted 1 day prior to the date of the event or during the event day. Replacement or substitute name and additional fees however, can be made at least 3 days prior to the event date.