



The Institution of Engineers, Malaysia

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223, 46720 Petaling Jaya, Selangor Darul Ehsan
Tel: 03-79684001/2 Fax: 03-79577678 E-mail: sec@iem.org.my IEM Homepage: <http://www.myiem.org.my>

The Role of Geosynthetics in Improving the Performance of Structures Built over Soft Soils

Organised by the Geotechnical Engineering Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Ref No: IEM15/HQ/044/T

Date : 10 March 2015
Time : 5.30 pm – 7.30 pm
Venue : C&S and TUS Lecture Room, 2nd Floor
Wisma IEM, Petaling Jaya
Speaker : Michael Dobie, CEng FICE

SYNOPSIS

In cases where soft soils are encountered on project sites, there is often an immediate consideration that geosynthetics might be used in some way to facilitate the proposed construction. Although geosynthetics may often offer a good solution, aspects of their application and limitations are sometimes misunderstood. This talk will mainly address the issues of constructing pavements and fills over soft soils, looking at the opportunities where the use of geosynthetics to stabilise or reinforce the fill materials may provide substantial benefits. The talk will also cover the limitations of such applications, and will discuss whether the benefits to be gained are in terms of controlling deformation or improving stability, or a combination of both. As with all soft soils problems, the starting point is good geotechnical data, which is an essential ingredient of coming to a suitable solution. The forms of structure covered will include: (a) pavements (unpaved and paved), (b) working platforms, (c) low fills, (d) high fills, (e) special cases and (f) transitions.

PROFILE OF SPEAKER



Mr. Michael Dobie is a practising geotechnical engineer, graduating in civil engineering from Bristol University (UK) and later obtaining a master's degree in soil mechanics from Imperial College, London. He is a Chartered Engineer and a Fellow of the Institution of Civil Engineers (UK). Since graduating in 1973, he has worked in the field of geotechnical engineering for British consultant WS Atkins & Partners, the Delft Soil Mechanics Laboratory in the Netherlands and Singapore, and American specialist consultant Dames & Moore. More recently he has worked for Acer Consultants (now Hyder Consultants, previously Freeman Fox & Partners), being seconded to establish the Central Soils Laboratory (CSL) in Bangi, to provide high quality soil testing for the North-South Expressway. Mike joined Tensar International in 1991 and currently is the Regional Manager (Asia Pacific) based in Jakarta with responsibilities for the development of design methods and software for both reinforced soil structures and mechanical stabilisation techniques.

Ir. Yee Thien Seng
Chairman
Geotechnical Engineering Technical Division, IEM

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required). (telephone and/or fax reservation will NOT be entertained)
- **Non members** may also attend the talk but will be charged a registration fee of **RM50** and an administrative fee of **RM15**.
- For affiliate members, there will be no registration fee. However, they are requested to produce their membership card as proof of membership. For the list of affiliates, please refer www.myiem.org.my/content/memorandum_of_understanding-469.aspx.
- Limited seats are available on a "first come first served" basis (maximum 110 participants).
- IEM members are required to produce your membership cards for confirmation of attendance (CPD purpose).
- Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD.
IEM members who fail to produce their membership cards will be charged a fee of RM25.00.

FUNDS FOR IEM BUILDING FUND (WISMA IEM)

- Kindly be informed that IEM will be charging participants **RM15** as administrative fee for talks organized by IEM.
- The fee would be used to cover overhead costs, building maintenance expenses as well as to support the purchase of the new building.
- All contributions will be deeply appreciated by IEM
- Students are however exempted.
Your understanding is greatly appreciated.

CPD/PDP HOURS CONFIRMATION

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