



## 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>

# Evening Talk on Discrete Passive Piles for Infrastructure Slope Stabilization

(Organised by the Geotechnical Engineering Technical Division, IEM)

**BEM Approved CPD/PDP Hours: 2 Ref No: IEM15/HQ/421/T**

**Date/Day: Monday, 7<sup>th</sup> December 2015**

**Time: 5.30pm – 7.30pm**

**Venue: Tan Sri Ir. Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM, PJ**

**Speaker: Professor William Powrie**

### SYNOPSIS

Discrete piles are increasingly being used to stabilise infrastructure earthworks slopes such as road and railway embankments and cuttings. Historically, there have been a number of uncertainties relating to how such piles behave. These include the maximum spacing at which such piles can be installed and still be effective, appropriate methods of analysis especially when there is no obvious pre-existing failure surface, and the limiting lateral pile-soil pressure especially in an effective stress analysis. This talk discusses these issues, with reference to geotechnical centrifuge model tests, three dimensional finite element analyses, and field measurements over a period of years at a number of sites that reveal a variety of different soil-pile interaction behavioural modes.

### PROFILE OF SPEAKER



**William Powrie** is Professor of Geotechnical Engineering and Dean of the Faculty of Engineering and the Environment at the University of Southampton. His main technical areas of expertise are in geotechnical aspects of transport infrastructure, and sustainable waste and resource management. He was elected Fellow of the Royal Academy of Engineering in recognition of his work in these areas in 2009.

He was Principal Investigator for *Rail Research UK* (2003-2010), and now leads *TRACK21*, an EPSRC Programme Grant focused on railway track design, construction and maintenance. In between 2004-2010, he chaired the Technologies Advisory Committee for Defra's £30m programme of research and demonstrator projects for new technologies for the treatment of biodegradable waste. He is the author of the widely respected and best-selling textbook, *Soil mechanics – concepts and applications*.

Ir. Yee Thien Seng

Chairman, Geotechnical Engineering Technical Division, IEM

### ANNOUNCEMENTS TO NOTE

1. 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.**
2. **Non members** may also attend the talk but will need to pay a registration fee of **RM 50** and an administrative fee of **RM 15**. GST is inclusive.
3. For members of affiliated organisations, there will be no registration fee payable. However, they are requested to produce their membership card as proof of membership. For the list of affiliated organisations, please refer to IEM website at [www.myiem.org.my](http://www.myiem.org.my) under International / MoU.
4. Limited seats are available on a "first come first served" basis (maximum 100 participants).
5. IEM members are required to produce membership cards for confirmation of attendance (CPD purpose).
6. Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD.
7. **IEM members who fail to produce their membership cards will be charged a fee of RM 25. GST is inclusive.**

### ADMINISTRATIVE FEE

1. Kindly be informed that an administrative fee of RM 15 is payable for talks organized by IEM.
2. The fee would be used to cover overhead costs, building maintenance expenses as well as to contribute to Wisma IEM Building Fund.
3. All contributions will be deeply appreciated by IEM.
4. Student Members are however exempted.

### CPD/PDP HOURS CONFIRMATION

Name: .....

Membership No/Grade: .....

Signature: .....