



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

Understanding Ground Movements around Excavations in Cities

Organised by the Geotechnical Engineering Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Ref No: IEM14/HQ/430/T

Date : **3 December 2014 (Wednesday)**
Time : **5.30 pm – 7.30 pm**
Venue : **Tan Sri Prof. Chin Fung Kee Auditorium, 3rd Floor
Wisma IEM, Petaling Jaya**
Speaker : **Professor Guy Houlsby**

SYNOPSIS

The lecture will address research carried out at Oxford University on the understanding of the interactions between ground movements and structures. Three-dimensional finite element analyses have been carried out of a number of different construction problems including tunnelling, shaft construction and deep excavations. Interactions between these operations and a variety of types of buildings have been studied, including masonry and concrete-framed buildings. The importance of interaction between the stiffness of the building and the ground is emphasised, and a number of recommendations are made on which features are important in analyses

PROFILE OF SPEAKER



Guy Houlsby has been Professor of Civil Engineering at the University of Oxford since 1991, and was Head of the Department of Engineering Science from 2009 to 2014. His main research is in geotechnical engineering, and he is an internationally recognised expert on offshore foundations, where he has a particular interest in the understanding of the behaviour of shallow foundations. Much of his recent work has been applied to foundations for offshore wind turbines. He has also carried out extensive work in theoretical soil mechanics and plasticity theory. He has published over 200 scientific papers and is a past Editor of the ICE's journal "Géotechnique". Recently he has developed a particular interest in renewable energy, and has a rapidly expanding research group working on tidal power. He is a Director of the spinout company Kepler Energy Ltd, developing tidal power systems using the novel "Transverse Horizontal Axis Water Turbine" (THAWT). He regularly lectures in the UK and abroad, and has acted as a specialist consultant in civil, geotechnical and offshore engineering on many projects. He is a Fellow of the Institution of Civil Engineers and of the Royal Academy of Engineering.

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 **RM10**.
- 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 RM20.00.

FUNDS FOR IEM BUILDING FUND **(WISMA IEM)**

- Kindly be informed that IEM will be charging participants **RM10** 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

Name:

Membership No:

Signature: