



**Talk on Design and Construction Challenges of the Crossrail Canary Wharf Station**  
 Jointly Organised by the Geotechnical Engineering Technical Division, IEM & Malaysian Geotechnical Society (MGS)  
 BEM Approved CPD/PDP Hours: 2 Ref No: IEM15/HQ/246/T

**Date/Day : 7 August 2015 (Friday)**  
**Time : 5.30 pm – 7.30 pm**  
**Venue : Tan Sri Ir. Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM, PJ**  
**Speaker : Dr Yeow Hoe Chian**



**SYNOPSIS**

An early involvement of the contractor and his consultant in the development of the Canary Wharf Crossrail station has allowed significant optimisation of the station box design from the original Crossrail Reference Design scheme. Innovative thinking, local knowledge and willingness to break with the norm have allowed the station to be delivered at 58% of the cost of the Reference Design developed and costed by Crossrail.

Construction of this station has progressed ahead of schedule and budget since the formal commencement of works in May 2009. The platform level was handed over to CRL in March 2012, five months ahead of schedule. The tunnel boring machines arrived in May 2013 and, Crossrail Place, the retail and mixed used space above the station which includes a roof garden is now opened to public in May 2015.

This talk will describe the design and construction challenges faced by the geotechnical designer of this station box where new construction technique was used for the first time in the vicinity of the Canary Wharf area and possibly in the UK. Reuse of excavated material for various structure also allows the design team minimizing the cost and environmental impact of removing large volume of material off site.

**PROFILE OF SPEAKER**

**Dr Yeow** finished his PhD in University of Aberdeen in late 1990 and joined Arup Geotechnics in London. Over 23 years with Arup he had worked on many building and infrastructure projects in the UK and the Far East. In October 2013 he joined Flint & Neill (F&N) in London, a major player in the world of bridge design. F&N is a COWI Group company and the two organisations are renowned for their design and build ways of working with major contractors worldwide.

As a technical director in F&N and COWI, Dr Yeow is required to provide geotechnical support to their global projects, to maintain/develop COWI's leadership in technical matters and to provide mentoring and guidance for their geotechnical staff. His recent projects since joining this new company include a cable stay Mersey Gateway bridge in the UK, 20km long up to 40m deep Fehmarn Belt Immersed Tube tunnel project, Race Bank offshore wind farm project in the North Sea, 4km long urban section of Copenhagen to Ringsted railway, stabilisation of a major hillside at Constantine in Algeria and most recently the Garden Bridge project in London.

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

**ANNOUNCEMENTS TO NOTE**

1. Preferential admission to talk shall be accorded to IEM/MGS 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: .....