



# The Institution of Engineers, Malaysia

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## Talk on The Need to Satisfy Mechanistic Fundamentals for Valid Forensic Engineering Findings

Organised by the Geotechnical Engineering Technical Division, IEM  
BEM Approved CPD/PDP Hours: 2 Ref No: IEM14/HQ/393/T

Date : **20 November 2014 (Thursday)**  
Time : **5.30 pm – 7.30 pm** (Refreshments will be served at 5.00 pm)  
Venue : **Tan Sri Prof. Chin Fung Kee Auditorium, 3rd Floor**  
**Wisma IEM, Petaling Jaya**  
Speaker : **Ir. Yee Thien Seng**

### SYNOPSIS

Engineering design philosophies are intended to culminate in constructions that do not fail. But occasionally constructed works do suffer failure. When a failure occurs, a forensic investigation is invariably instituted with the single objective of determining why the failure took place.

Findings from forensic investigations are of great importance to society, so they have to conclude correctly. They would be particularly imperative for the formulation of repairs to damaged facilities, identification of relevant deficiencies in the body of knowledge in engineering design or construction processes that had led to the failures and, finally, apportionment of responsibilities and liabilities in litigations resulting from failure events.

In the talk, 2 failure events are employed to illustrate the importance of satisfying mechanistic fundamentals to validate the concluded cause for the failures.

### PROFILE OF SPEAKER

**Ir. Yee** graduated in civil engineering from the University of Malaya in 1978 and has over the years worked on projects largely involving heavy plant and building foundations as well as large infrastructures. He had also carried out numerous work on distress evaluations and rehabilitation engineering. In 1994, Ir. Yee set up his own practice, Geo.Consult, to support the construction industry with both expert and specialist advice; in particular on geotechnical engineering aspects. His participation in recent projects of significance are the Kuching Deep Water Port, Shah Alam Expressway, North-South Expressway, Kuantan Port Inner Harbour Development, Kuantan-Kertih Railway and the Rawang-Ipoh Double Tracking Railway. He has authored/co-authored more than a dozen technical papers in local and international conferences and is an expert witness and accredited checker registered with the Board of Engineers Malaysia for the design of geotechnical engineering works. Ir. Yee is the Chairman of the Geotechnical Engineering Technical Division of the Institution of Engineers Malaysia for Session 2014/2015.

**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](http://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: .....