



# The Institution of Engineers, Malaysia

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## TALK ON "MANAGING RISKS IN THE CONSTRUCTION OF MENGGUANG DAM EXPANSION PROJECT"

Organised by Water Resources Technical Division, IEM  
BEM Approved CPD/PDP Hours: **Applying**

Date : **28 September 2016 (Wednesday)**  
Time : **5:30 pm – 7:30 pm** (*Refreshments will be served at 2<sup>nd</sup> Flr at 5.00pm*)  
Venue : **Auditorium Tan Sri Prof. Chin Fung Kee, Third Floor**  
Speaker 1: **Ir. Lai Kim Fui and Speaker**  
2: **Ir. Khor Chai Huat**

### SYNOPSIS

The Expansion of Mengkuang Dam Project involves construction of a new dam and raising of the existing dam. It is a large scale civil engineering project with multi-stakeholders involving technical, environmental and social issues and risks of construction.

The challenges facing the construction of the project is significant. Engineering solutions have to overcome the physical constrain, cost and time overrun. Risk of construction is high. Any mishap during construction especially foundation excavation for new dam adjacent the existing dam will impact on the safety of existing dam. Any interruption of raw water supply from the existing dam will have serious adverse impact on the water Supply system in Penang.

Existing quarry operation near the left abutment of new dam has serious effect on the integrity of the new dam. Risk of reservoir leakage in future through the quarry face due to fractured rocks is high.

Completing such a major civil engineering project in a populated areas requires the cooperation and collective effort of the project developer, land owner, consultants and contractors. Many challenges involving technical problems and contractual issues have to be managed and resolved.

### BIODATA OF SPEAKERS

**Ir. Lai Kim Fui** obtained his B.E (Civil) Hons from Universiti Putra Malaysia in 2001 and presently an associate of Angkasa Consulting Services Sdn Bhd (ACS). He has over 15 years of experience in engineering consultancy works and involved in dam and hydropower projects ranging from feasibility study, detailed design and construction management. Currently he is the project manager for the construction supervision of Expansion of Mengkuang Dam Project, Pulau Pinang.



**Ir. Khor Chai Huat** obtained his B.E.(Civil) Hons and Masters from University of Auckland, New Zealand. Currently he is Managing Director of Angkasa Consulting Services and has over 35 years of experience in multi-disciplinary engineering works in his career as an engineering consultant. His main areas of interest and expertise are water resources, dam and hydro engineering. Ir. Khor have published more than 10 journals both local and overseas and addressed many conferences.

### ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required).
- **Non-members may also attend the talk but will need to pay a registration fee of RM50 and an administrative fee of RM15. GST is inclusive.**
- **Members of affiliated organisations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.**
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which fee of RM25 will be imposed. GST inclusive.

### ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of **RM15** is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

### PERSONAL DATA PROTECTION ACT

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### CPD HOURS CONFIRMATION

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Membership No: .....

Signature: .....

**Ir. Dr. Wong Wai Sam**  
Chairman  
Water Resources Technical Division, IEM