

## TECHNICAL TALK ON REDEVELOPMENT OF MONUMENTS: CHALLENGES AND SOLUTIONS WITH INNOVATION IDEA

(Organised by Geotechnical Engineering Technical Division, IEM)

**BEM Approved CPD/PDP Hours: 2.0 Ref No: IEM18/HQ/151/T**

**Day/Date** : 27 June 2018 (Wednesday)  
**Time** : 5:30 pm – 7:30 pm  
**Venue** : Tan Sri Ir. Prof. Chin Fung Kee Auditorium, Wisma IEM, PJ  
**Presenter** : Ir. Alan Lai Wai Lun

### Abstract:

A monument redevelopment project in urban districts in Hong Kong will be discussed in this evening talk. This redevelopment included the preservation and modification of existing monuments, preservation of existing trees and construction of new basement and podium structure. The redevelopment will provide a leisure high end retail environment and merging the new building into the historical building complex. Over depth of 17 m deep excavation and lateral support (ELS) with clearance from the monuments less than 3 m was required to facilitate the construction works of the proposed redevelopment. Several interesting matter such as innovative approach and the pioneering of the application of the Directional Drilling method for ELS provided unyielding support to the historical main building without causing any adverse effect, resolved the constraints of very tight clearance from the site boundary and limited penetration depth of pile wall into the ground due to the site was located above the MTR's tunnel will be discussed in the evening talk. Different underpinnings and lateral support systems also contributed to the preservation of the valuable trees and existing signal tower, one of the monument.

### Profile of Speaker:



Graduated from Hong Kong Polytechnic University in BEng (Civil Engineering) in 1994, Ir. Alan Lai has over 23 years of experiences in geotechnical field in Hong Kong and oversea. His has been working for projects for the Government, Airport Authority, private developers and MTR. He has been acting as the team leader, designer and supervisor for the MTR projects, site formation works, deep excavation works (30m), foundation works including foundation in the site with Marble (Yuen Long, Ma On Shan and Tung Chung), settlement assessment for over 23 years. He also has oversea experiences which include design for the site formation, reclamation, deep excavation and foundation works. He was the geotechnical design team leader for the West Kowloon Terminus development, West Kowloon Cultural District Development and the Third Runway Concourse Development of Airport Authority. He is now working for KVMRT Line 2 as the Geotechnical Leader of Lead Design Consultant

**Ir. Lee Peir Tien**  
**Chairman, Geotechnical Engineering Technical Division, IEM**

### ANNOUNCEMENTS TO NOTE

#### ADMINISTRATIVE FEE (Effective 1<sup>st</sup> October 2017)

#### Members

##### Administrative Fee:

- a) Online : RM15
- b) Walk In : RM20

#### Non-Members

- (a) Registration Fee : RM50
- (b) Administrative Fee : RM20

- **Non-IEM members** may also attend the talk but will need to pay a registration fee of **RM50** and an administrative fee of **RM20**. GST is inclusive.
- Limited seats are available on a "first come first served" basis (maximum 100 participants). **To secure your seat, kindly register online at [www.myiem.org.my](http://www.myiem.org.my).**
- Kindly be informed that an administrative fee of **RM20** is payable for talks organized by IEM. GST is inclusive.
- IEM Student Members are however exempted.

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