

## **Technical Talk on "Optimisation of Geotechnical Solutions with Ground Improvement"**

*(Organised by Geotechnical Engineering Technical Division, IEM)*

**Ref Number: IEM18/HQ/504/T BEM Approved CPD/PDP Hours: 2**

**Date** : 15<sup>th</sup> January 2019 (Tuesday)  
**Time** : 5.30 pm – 7.30pm (*Refreshments will be served at 4.45 pm*)  
**Venue** : Tan Sri Prof. Chin Fung Kee Auditorium,  
3<sup>rd</sup> Floor, Wisma IEM, PJ  
**Speaker** : Dr. LEONG KAM WENG

### **SYNOPSIS**

With the growing disruption in the construction industry, the geotechnical engineer is often tasked with solving geotechnical problems with solutions that are safer, more cost-effective and sustainable. Often, the criteria for optimizing these geotechnical solutions have been very narrow or constrained with the following factors; insufficient Soil Investigation information, unclear or poorly communicated project expectations or fixed mindset of project stakeholders. Deriving an optimized geotechnical solution is not about reducing the cost only but should also encompass saving the resources material and time. Sometimes, optimization of geotechnical solution may not be limited to a single geotechnical technique but may require a combination of various geotechnical techniques. This seminar will highlight the key recipe in optimization of a geotechnical solution. Three case studies have been selected to illustrate how effective geotechnical solutions and optimisations can be done with Ground Improvement. The selected projects include geotechnical solutions for earth retention support systems for a basement excavation, foundations on ex-mining and karst geology and ground improvement solution for oil and gas tanks on reclaimed land.

### **SPEAKER'S BIODATA**

Dr. Leong graduated with Bachelor of Engineering (First Class Honour) in Civil Engineering from University of Malaya, Malaysia. He obtained his PhD from the National University of Singapore. He has more than 20 years of experience in Geotechnical Engineering. He has been active in the design and execution of Ground Improvement projects in South East Asia (ASEAN) for Keller like Exxon Mobil SPT in Singapore and KVMRT project in Malaysia. He is currently the Director of Keller Foundations (S.E. Asia) Pte Ltd and is heading the Ground Improvement business in ASEAN. He is a member of the Geotechnical Society of Singapore (GeoSS) since 2008 and served as committee member since 2012 and Vice President for 2014-15. He is the Immediate Past President of GeoSS for 2016-17.

**Ir. LEE PEIR TIEN**

**Chairman,**

**Geotechnical Engineering Technical Division, IEM**

### **FEE ANNOUNCEMENT** (Effective: 1<sup>st</sup> October 2017)

#### **Members:**

- (i) Registration Fee: No Charge
- (ii) Administrative Fee:
  - (a) Online RM15
  - (b) Walk-In RM20

#### **Non-Members:**

- (i) Registration Fee: RM50
- (ii) Administrative Fee: RM20

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