

Evening Talk on Engineering Case Study in Slope Stabilization Works

Jointly Organized by Women Engineers Sections and Geotechnical Engineering Technical Division, IEM

BEM Approved CPD/PDP Hours: 2 Ref No. : IEM16/HQ/481/T

Date : **14th December 2016 (Wednesday)**
Time : **5.30pm – 7.30pm (Refreshment will be served at 5.00pm)**
Venue : **Tan Sri Prof Chin Fung Kee Auditorium, 3rd Floor Wisma IEM, PJ**
Speaker : **Ir. Raftah binti Mahfar**

SYNOPSIS

Malaysia is well-known with mountainous terrain and tropical climate changes throughout the year. Under this situation, soil and rock slopes are prone to sudden failure shortly after intense rainstorms. These incidents have caused millions of dollars of damage to public and private properties every year.

Slope Stabilization of landslides, unstable soil and rock slopes is a significant challenge to Geotechnical Engineers. Generally, the stability of a slope will decrease with increasing slope angle. Present of underground water often plays a major role in slope failure, as it will increase the driving force by filling previously empty pore spaces and fractures by adding to the total weight of the subsoil. Increased of pore water pressure in slope can also decrease the shear strength of the slope material. Chemical weathering and unstable geological features will slowly weaken slope material, reducing its shear strength, thus reducing resisting forces.

Slope Stabilization design is unique as it required an evaluation in term of geology and geotechnical engineering study. In this talk, Ir. Raftah will share her technical experiences through geotechnical engineering related project.

BIODATA OF SPEAKER

Ir. RAFTAH MAHFAR holds Degree in Civil Engineering from Universiti Teknologi Malaysia (1985) and Master of Science in Civil & Structural Engineering from Universiti Kebangsaan Malaysia (1990). She has more than 29 years of technical experience in Geotechnical Engineering design and construction. Her project includes Upgrading of 50 km of Jalan Segamat-Tangkak, Construction of Access Road at Kompleks Istana Baru Terengganu, Slope Repair Works at Jalan Baru Naik Ke Bukit Fraser, Upgrading works of Jalan Persekutuan 3 Kuantan-Pekan, Electrified Double Track Project Ipoh to Padang Besar and etc.

Ir. Raftah is currently a Director of SCG Consultants Sdn. Bhd., a Structural, Civil, Infrastructure, Geotechnical and Railway Engineering Consultants. She is a Professional Engineer with Practicing Certificate with the Board of Engineers, Malaysia (BEM) and also the Interviewer and Reviewer for IEM's Professional Engineer Interview. She has been actively participating in Committee member of IEM Women Engineers since year 2008, Committee member of IEM Standing Committee on Activities, Professional Practice and Welfare (2012/13). Presently, Ir. Raftah is the Past Immediate Chairman of IEM Women Engineers Section for Session 2015/2016.

Ir. Assoc Prof Dr. Leong Wai Yie
Chairman
Women Engineers Section

Ir. Yee Thien Seng
Chairman
Geotechnical Engineering Technical Division

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 need to pay a registration fee of **RM50** and an administrative fee of **RM15**. GST is inclusive.
- 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 under International/MoU.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are required to produce 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 RM25.00. GST is 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.

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