



The Institution of Engineers, Malaysia (Penang Branch)

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BEM Approved
CPD/PDP Hours: 3
Ref No: IEM16/PG/202/S

Technical Seminar: Challenging Engineering Case Study: Slope Stabilization and Flood Mitigation (Co-organized with IEM WE)

Date : 21 July 2016 (Thursday)
Time : 9.00 am – 12.30 pm
Venue : IEM Penang Branch
Moderator : Ir. Heng Lee Sun

Introduction

Malaysia are well-known with mountainous terrain and tropical climate changes throughout the year. Under this situation, the slope failure and flood incidents are often triggered by prolonged wet-and-dry climatic cycles. Thus, slope 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. Therefore, Slope Stabilization and Flood Mitigation works is unique as it required an evaluation in term of geology and geotechnical engineering study.

In this section, Ir. Raftar and Ir. Suhana will share their technical experiences through geotechnical and civil engineering related project with their great leadership. This seminar will greatly energize and benefit participants with enrich their experience through the speakers sharing.

Slope Stabilization – A case study by Ir. Raftah Mahfar

Slope Stabilization of landslides and unstable slopes is a significant challenge to Geotechnical Engineers. The slope stability will decreases with increasing slope angle. Under ground water plays a major role in slope failure as it will increase the driving force by filling previously empty pore spaces and fractures, 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 slowly weakens slope material, reducing its shear strength, thus reducing resisting forces.

Flood Mitigation Work – A Case Study by Ir. Suhana

Flood mitigation involves the management and control of flood water movement, such as redirecting flood run-off and methods used to reduce or prevent the detrimental effects of flood waters. Common challenges from Flood Mitigation such as rapid urbanization, climate change, construction activities due to population growth will intensify the risk of the flood. This presentation will focus mainly on the flood mitigation study and challenges during construction of the On-Site Detention Pond for Sg Rasau Toll Plaza.

IEM Penang Branch is the administrator of the above activity

Speakers' Profiles

Ir. RAFTAR 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 projects include Upgrading of Jalan Segamat-Tangkak, Pembinaan Kompleks Istana Baru Terengganu, Slope Repair Works at Jalan Baru Naik Ke Bukit Fraser, 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 participate 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. SUHANA Abdul Majid holds Degree in Civil Engineering from University of Glasgow Scotland. Her professional career over the last 25 years covers various fields of Civil and Structural Engineering Services, such as feasibility study, infrastructure design, project management and asset management services in transportation sector as well as mixed development projects. She has involved in the implementation of comprehensive range of projects that include, the North South Expressway, Kuala Lumpur International Airport (KLIA), KTM Double Track between Ipoh Rawang, LRT Extension, Ministry of Health Projects, University Industry Selangor (Unisel), Penang Bridge Second Crossing, Total Asset Management System and etc.

Ir Suhana is currently the Managing Director of Prestasi Perintis Sdn Bhd, an Engineering Consulting Firm and holds the Vice Chairman of the IEM Women Engineer Section.

Programme

09.00 am	Registration
09.15 am	Presentation by Ir Raftar - <i>Slope Stabilization</i>
10.30 am	Tea Break
10.45 am	Presentation by Ir Suhana – <i>Flood Mitigation</i>
12.00 pm	Q&A
12.30 pm	End of programme

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REGISTRATION FORM

Technical Seminar:
Challenging Engineering Case Study:
Slope Stabilization and Flood Mitigation
(Co-organized with IEM WE)

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Moderator : Ir. Heng Lee Sun

REGISTRATION FEES				
Student	Graduate	IEM Member	Non-IEM Member	Senior IEM Member > 60 yrs
RM10	RM20	RM60	RM120	RM40

Registration: on a *'first-come first-served'* basis.
Closing Date: **14 July 2016 (Thursday)**

Payment Mode (please tick where applicable)

- 1 online bank-in to: AMBANK Acct#: 002-201-101022-6 (please e-mail/fax receipt to us with attendee (s) name on it
- 2 crossed cheque in favour of: The Institution of Engineers, Malaysia
- 3 cash to: The IEM Penang Secretariat

Closing Date: payment should reach us latest by **14 July 2016 (Thursday)**

We wish to register the following person(s) for this Technical Seminar. I/We understand that the fee is not refundable.
If I/we withdraw after my/our registration is accepted, substitution of participants will be allowed.
If I/we fail to attend the course, the fee paid will not be refunded.

#	FULL NAME (s) in CAPITALS	NEW IC#	MOBILE#	IEM #	PE #	FEES (RM)
1						
2						

Name of Organisation:

Tel: (o) Fax: Email:

Contact Person: Designation:

Signature: Date:

Note: IEM reserves the right to cancel the technical visit with full refund

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