

IGM Professional Short Course Series

Engineering Geology of Rock Slopes

ORGANISING COMMITTEE

Patron:

YBhg. Dato' Yunus Abdul Razak

President of IGM &

Director General, Minerals & Geoscience Department of Malaysia

Organising Chairman:

Assoc. Prof. Dr. Tajul Anuar Jamaluddin (SEADPRI-UKM)

Secretary:

Mrs. Jumriah Nunurung

Committee Members:

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Mr. Lim Choun Sian

Mr. Hamzah Hussin

Mr. Mohd Fadzli Deraman

Mr. Rodeano Roslee

Mrs. Nor Shafirah Ramli

Mrs. Mastura Ahmad

20-21 December 2011

Puri Pujangga

Universiti Kebangsaan Malaysia

Bangi, Selangor

Organised by

Institute of Geology Malaysia

In Collaboration with

Geological Hazards Programme, SEADPRI-UKM

Geological Society of Malaysia

For further enquiries, please contact

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INTRODUCTION

The needs for a better understanding of the challenges to the sciences and engineering geology of rock slopes in tropical climate is crucial, considering to date there are numerous unaddressed issues related to environment safety and engineering sustainability exist. Issues on the influence of geological parameters to rock slope stability are often overlooked or simply ignored due to misinterpretation of ground conditions and inadequacy of geological input. The focus of this short course revolves around the engineering geology of rock slopes in Malaysia.

This Professional Short Course is an initial effort by the IGM to provide some of the fundamentals and an overview of the various techniques and applications of Geology, Engineering Geology and Geomechanics from the standpoint of experienced practising geologists for rock slope engineering. In this short course, the participants will be exposed to the geological features and parameters that need to be observed, measured, mapped or recorded from a given area/rock slope; methods and techniques for rock slope field data collection and analyses, and most importantly geological data presentation and reporting, so that the information provided is meaningful to the end users. Examples of case studies from various projects provide clearer pictures on the subject matter, issues and challenges facing the geologists. Slope Designers, Geotechnical Engineers, Policy Makers, Developers, Planners, Engineering Consultants, Contractors, Project Owners and other professionals shall find this short course very helpful in planning and decision making for engaging geologists and assessing the anticipated outcomes from the geological studies of rock slopes.

REGISTRATION

Registration fees: **RM300.00 (IGM & GSM Members)**
RM350.00 (Non Members)

Max Limit of Participants: 40 persons

Please confirm your attendance before: **10th Dec. 2011**

ACCOMODATION

No accommodations are provided by the organising committee. Participants are advised to make their own arrangement with the recommended hotels.



Puri Pujangga, UKM Bangi.

Tel: 03-8921 3361, Fax: 03-8922 2890



Hotel Equatorial, off Persiaran Bandar,

43650 Bandar Baru Bangi, Selangor

Tel: 03-82102222 : Fax: 03-82102888

DAY 1 (20 th Dec 2011)	PROGRAMS	Speaker
8.30 am – 9.30 am	Introduction – Geological Features and Their Significance in Rock Slope Engineering	TAJ
9.30 am – 10.30 am	Weathering & Rock Slope Stability	IBK
10.30 am – 10.45 am	<i>Tea Break</i>	
10.45 am. – 11.45 am	Geological Mapping for Cut/Rock Slopes	TAJ
11.45 am – 12.45 am	Discontinuity Survey and Slope Stability Assessments	TAJ
12.45 pm – 2.00 pm	<i>Lunch Break</i>	
2.00 pm – 3.00 pm	Engineering Geology of Rock Slopes – Some Case Studies	TBK
3.00 pm – 4.45 pm	Rock Slope Stabilisation & Protection – Some Selected Case Studies	TAJ
4.45 pm – 5.30 pm	<i>Tea Break & End of Session</i>	
DAY 2 (21 st Dec 2011)		Speaker/ Provider
8.30 am – 10.30 am	Guided Fieldtrip to Cheras	IGM
11.00 am – 12.30 am	Guided Fieldtrip to Kajang/Sg. Long	IGM
1.00 pm – 2.00 pm	<i>Lunch in Kajang & Adjourn</i>	

Fieldtrips

Participants are advised to share transportation to minimize number of vehicles to avoid parking problems at the visited site. Please wear suitable clothing and safety gears (hard hats, safety vests, boots). The organizer shall hold no liability for any accidents or mishaps to the participants during the fieldtrips. Under extreme weather conditions or unforeseen circumstances at the site, the fieldtrip might be cancelled or re-scheduled to a suitable time/date by the organiser.

Cheras: Issues on development in ex-quarry site. Residential areas and the community are facing with issues on rock slopes stability and risks of rock fall. Some examples of stabilization/protection measures are applied to the poorly engineered rock slope by the local government and their sufficiency might be disputed. Continuous developments in the surrounding hill slopes testify the needs for geological input for sound rock slope engineering.

Kajang/Sg. Long: Another example of development in ex-quarry area, however in this example the development project is located on a flat ground of an ex-quarry floor but is bordered by steep ex-quarry walls. Issues pertaining to un-engineered rock slopes, and the rock slope failures mitigation measures are being implemented after geological input have been taken into consideration by the developer.

Instructors/Speakers

Associate Prof. Dr. Tajul Anuar Jamaluddin (BSc., MSc., PhD)

- ❖ BSc (Hons) Geology & MSc (Engineering Geology) from UKM Bangi; PhD Structural Geology from University of Wales, Aberystwyth UK, 1997. Formerly a Geologist at MINCO (1990), a lecturer and then Associate Professor at Geology Department, University of Malaya (1991- 2006); Geoscience & Petroleum Engineering Department Universiti Teknologi PETRONAS (2006-2007); and currently at Geology Programme, Faculty of Science & Technology cum Coordinator for Geological Hazards Programme of SEADPRI, UKM Bangi (since March 2007). Council Member of IGM, Life time Member of GSM; Chairman of NaTROCK (National Tropical Rock Engineering Research Group) and Associate Fellow of Centre for Natural Disasters UMS. Field of specialization & Research Interests: Engineering Geology, Geohazards, Rock Slope Stability, Structural Geology & Tectonics. Has published more than 50 journal papers, over 100 proceeding/seminar papers and produced over 100 consultation/technical reports mainly on engineering geological aspects and geoforensic investigation of slopes, highways, roads, dam and building foundations, rock quarries, railway tracks and rock excavation.

Prof. Dato' Dr. Ibrahim Komoo (PhD, FIGM, FASc, DSNS)

- ❖ Ibrahim Komoo is a Professor of Engineering Geology at Universiti Kebangsaan Malaysia (UKM), Bangi. He graduated from UKM in 1976 and obtained his PhD from Strathclyde University, Glasgow in 1979. His research interest includes assessment of geodiversity, geoheritage conservation, geological landscape, and governance for geosites and geoparks. He was a founder Chairman of the Geological Heritage Group Malaysia, and member of the International Experts and Bureau Global Geoparks Network. He has published more than 250 articles in journals and proceedings, particularly in the areas of general geology, engineering geology, geohazards, conservation geology and sustainability science. He also published numerous articles for public reading in national magazines and newspapers. He has served as Vice President, International Association for Engineering Geology (IAEG), President, Geological Society of Malaysia, and Vice President, Institute of Geology Malaysia. He has also held various positions in UKM, such as, Head, Department of Geology; Director, Institute for Environment and Development (LESTARI); and Deputy Vice Chancellor (Research & Innovation). He is currently the Director, Southeast Asia Disaster Prevention Research Institute (SEADPRI-UKM).

Mr. Tan Boon Kong (BSc., MSc.)

- ❖ Obtained his BSc (Hons.) degree in Applied Geology from the University of Malaya (K.L.) in 1973, M.S. in Geological Engineering from Univ. of Missouri (Rolla) in 1975, and M.S. in Geo-Engineering from the Univ. of Minnesota (Minneapolis) in 1977. He was formerly Associate Professor in Engineering Geology at Universiti Kebangsaan Malaysia (UKM), Bangi and retired from UKM in October 2006. He has published widely in engineering geology and rock mechanics. Mr. Tan was also engaged on an ad-hoc or project basis in consulting practices in Engineering Geology in the private sectors, mostly with the Geotechnical and Civil Engineering consulting companies. He continued his practice as an Independent Consultant Engineering Geologist after his retirement from UKM. Mr. Tan has been actively involved in professional bodies such as the Geological Society of Malaysia (GSM), the Institute of Geology Malaysia (IGM) and The Institution of Engineers, Malaysia (IEM) as a member of the Council in GSM and IGM. He is the Chairman of the Working Group on Engineering Geology, Hydrogeology and Environmental Geology under GSM.

REGISTRATION FORM

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IGM PROFESSIONAL SHORT COURSE SERIES ENGINEERING GEOLOGY OF ROCK SLOPES 20th-21st December 2011

No.	Name(s) in CAPITALS	IGM/GSM No.	Fee
1			
2			
3			
Total Amount (RM)			

- Enclosed herewith a crossed cheque no:..... for the sum of RM..... issued in favour of "INSTITUT GEOLOGI MALAYSIA".
- Payment can also be made directly to account No. 1440-0006703-05-8, CIMB Bank Berhad, Cawangan Universiti Malaya, Lembah Pantai, Kuala Lumpur. Please Email or Fax bank-in slip as proof of payment.

I/We understand that the fee is not refundable if I/we withdraw after my/our registration is/are accepted but substitution of participant(s) will be allowed.

Name of Organisation: _____

Address: _____

Telephone no. (off) : _____ Fax no.: _____

Mobile no.: _____ Contact person: _____

Email: _____

(Please print clearly as confirmation of registration will be by email)

Signature: _____ Date: _____