The 4th Workshop on Geology of Singapore

NUSS Kent Ridge Guild House, 19 May 2014 (Monday), 8.30 am to 5.00 pm

Organised by:







Society for Rock Mechanics & Engineering Geology (Singapore)



Geotechnical Society of Singapore

Course Synopsis

Q&A

1630

This workshop is organised for the 4th time in response to the favourable feedback in 2010, 2011 & 2012. It aims to present and discuss systematically the geology of Singapore, as the Singapore Geological Map has been recently updated from the old version published in 1976. The Economic Strategies Committee (ESC) of Singapore recently recommended the development of underground space over the next decade as the Government continues to find ways around the problem of space limitations in land-scarce Singapore. With an increasing demand of deep excavation, tunnelling and development of underground rock cavern space in Singapore, it is important for regulators, planners, developers, engineers and contractors to have a more comprehensive understanding of Singapore geology, the use of updated Singapore Geological Map and the planning for geologic investigations. This workshop brings together experts and practitioners from Singapore to share their knowledge and experience.

Speakers:



Prof. Louis Wong

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Dr. Cai Jun Gang

Programme						
Time	Presentation	Speaker				
0830	Registration					
0900	Welcome by Dr. Cai Jun Gang					
0910	Fundamentals of Geology — Plate Tectonics, Geologic Time Scale, Minerals vs. Rocks, Rock Cycle, Weathering vs. Erosion, Geological Structures	Prof. Louis Wong				
1030	Tea break					
1100	Geology & Updated Singapore Geological Map — Geological Setting, Features of Geological Formations, Rock Weathering, Geological History	Dr. Cai Jun Gang				
1230	Lunch					
1345	Proper use of the geological map and some new findings on Singapore geology	Prof. Louis Wong				
1500	Tea break					
1530	Planning and Rock Investigations for Rock Cavern Development, Layout of Boreholes & Geophysical Lines, Need for Various Means of Rock Investigations, Need for Field & Lab Tests, Rock Investigation Practice in Singapore	Dr. Cai Jun Gang				

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Registration Form

Title: '	Membership No.:					
Orga	nisation:					
Mailir	ng Address:					
Telephone:		Mobile:	Mobile: Fo		ax:	
Email	l:					
Registration is on a first-come-first serve basis. All registrations must be an number before the course commences. No cancellation or refund is allowed. Method of Payment By Bank Draft / Cheque in Singapore dollars drawn on a bank in Singapore and made payable to:						
	suing Bank :	nanics & Engineering Geolo Bank		ue Number :		
		deduct the above amoun			R / AMEX (select one)	
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Please send Registration Form and Payment to:

SRMEG Secretariat

Phone: +65 6336 2328 | Fax: +65 6336 2583 | Email: srmeg@cma.sg | Website: www.srmeg.org.sg

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Speakers' Profiles



Prof. Louis Wong is an Assistant Professor at NTU. He holds a BSc degree in Earth Sciences (HKU) and a PhD degree in Geotechnical and Geoenvironmental Engineering (MIT). He had worked as a consulting tunnel engineer in the USA and had served the Geotechnical Engineering Office of the Hong Kong Government. The academic pursuits of Prof. Wong are fundamental and applied research of engineering geology and rock mechanics. He has authored and co-authored more than 80 journal and conference publications. He is an editorial member of the Journal Rock Mechanics and Rock Engineering (Springer), Journal Engineering Geology (Elsevier) and Bulletin of Engineering Geology and the Environment (Springer) and three other technical journals. He is the Hon. Secretary in the Society of Rock Mechanics and Engineering Geology (Singapore), and a Committee member of the ASCE Geo-Institute Rock Mechanics Committee. He is a Singapore Accreditation Council (SAC) Technical Assessor for the field of Site Investigation. Prof. Wong is a winner of the Nanyang Education Award (2013), which recognizes his quality in preparation and organization, specialist knowledge, enthusiasm for the course, delivery and effectiveness based on both student and peer reviews in the School of Civil and Environmental Engineering at NTU.



Dr Cai Jun Gang is currently an Executive Director of Tritech Group Ltd. He has been involved in most rock investigation and underground rock cavern projects in Singapore, such as rock cavern development in Jurong Formation, underground ammunition facilities, underground science city at Kent Ridge, and Jurong oil storage rock caverns (JRC) at Jurong Island. Dr Cai obtained MEng and PhD in Geotechnical Engineering from NTU of Singapore. He has over 25 years of practical experience in engineering geology, rock engineering & geotechnical engineering R&D, consultancy and project management, and has published more than 100 technical papers in scientific journals and conference proceedings. He is also the project director of Sintef-Tritech-Multiconsult Consortium for project management and technical review of the on going Jurong Rock Cavern (JRC), and Underground Rock Cavern (URC) Usage Feasibility Study. Dr Cai is the Vice-President of the Society for Rock Mechanics & Engineering Geology (Singapore). He is a National Research Foundation (NRF) technical reviewer, Singapore Accreditation Council (SAC) subcommittee member and technical assessor.