



**Society for Rock Mechanics
& Engineering Geology
(Singapore)**

**Geotechnical Society of
Singapore**



Workshop on Geology of Singapore

Workshop Details

**Venue: Cluny Room
NUSS, Kent Ridge Guild
House, 9 Kent Ridge Drive
Singapore 119241**

Date: 05 April 2010 (Mon)

Time: 0830 am - 1700 pm

**PDU Points:
To be confirmed later**

Speakers:

- ★ Wong Ngai Yuen, Louis
- ★ Lee Kim Woon, Michael
- ★ Cai Jun Gang

Organised by:



**Society for Rock Mechanics
&
Engineering Geology**



**Geotechnical Society of
Singapore**

This workshop aims to present and discuss systematically the geology of Singapore, as the Geological Map of Singapore 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 several experts and practitioners from Singapore to share their knowledge and experience.

**For more details and online registration, please visit :
www.srmeg.org.sg**

Registration Fee

SRMEG/GeoSS/TUCSS Members: \$180.00 **Non-Members:** \$200.00
(Registration fee covers workshop handouts, tea breaks and lunches)

Prof / Dr / Mr / Mrs / Ms: Title and Full Name (underline Surname / Family Name):		Member of SRMEG or GeoSS: YES NO
Organisation:		
Address:		
Office Phone:	Mobile:	Fax:
Email:		

Method of Payment

- By bank Draft / Cheque in Singapore Dollars drawn on a bank in Singapore and made payable to: "**Society for Rock Mechanics & Engineering Geology**"

Bank Draft/Cheque Numbers: _____

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Please send the Registration Form and Payment to: SRMEG
1 Liang Seah Street, #02-12 Liang Seah Place, Singapore 189022
Tel: +65 6336 2328 , Fax: +65 6336 2583
Email: srmeg@cma.sg

Programme

Workshop on Geology of Singapore 05 April 2010, Cluny Room, NUSS

Time	Content	Speaker
0830-9000	Registration	
0900-0910	Opening	Prof Phoon Kok Kwang (President of GeoSS)
0910-1030	Fundamentals of Geology — Plate Tectonics, Geologic Time Scale, Minerals vs Rocks, Rock Cycle, Weathering vs Erosion, Geological Structure	Assistant Prof Wong Ngai Yuen, Louis
1030-1100	Tea Break	
1100-12.15	Geology & Updated Geological Map of Singapore — Geological Setting, Features of Geological Formations, Rock Weathering, Geological History	Mr Lee Kim Woon, Michael
1215-1330	Lunch	
1330-1500	Geology & Updated Geological Map of Singapore (continued) — Updated Geological Map, Use of the Geological Map	Mr Lee Kim Woon, Michael
1500-1530	Tea Break	
1530-1630	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
1630-1700	Questions & Answers	

About the Speakers



Prof. Louis Wong is currently an Assistant Professor in geotechnical engineering at the Nanyang Technological University (NTU). Prior to joining NTU, he worked as a consulting tunnel engineer in the USA. He also served the Geotechnical Engineering Office (GEO) of the Hong Kong Government as an engineering geologist for three years. Prof. Wong obtained his Bachelor's degree in Earth Sciences from the University of Hong Kong, and Doctoral degree in Geotechnical and Geoenvironmental Engineering from the Massachusetts Institute of Technology, USA. His research interests are in engineering geology, rock mechanics and underground engineering. He is currently one of the Principal Investigators for the on-going Jurong rock cavern project at Banyan Basin, Jurong Island.



Mr Lee Kim Woon is currently a Principle Geologist of Trittech Consultants Pte Ltd. He graduated from University of Malaya in 1972 with Bachelor Degree in Applied Geology. He has more than 30 years of local experiences as a Geologist in PWD Chief Civil Engineer's Office from 1972 to 1999. Mr Lee was the key person participating in producing the first Geological Map of Singapore in 1976, and also for recent updating Singapore Geologic Map together with DSTA in 2009.



Dr Cai Jun Gang is currently an Executive Director of Trittech Consultants Pte Ltd. He was 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 oil storage rock caverns at Jurong Island. Dr Cai obtained MEng and PhD in Geotechnical Engineering from NTU. He has over 20 years of 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-Trittech-Multiconsult Consortium for project management and technical review of the on-going Jurong Rock Cavern (JRC), and Underground Rock Cavern (URC) Usage Feasibility Study.