

Organised by:

The 5th Workshop on Geology of Singapore



Society for Rock Mechanics
& Engineering Geology
(Singapore)

Singapore Management University
School of Accountancy, Seminar Room 3.3
60 Stamford Road, S178900



Geotechnical Society of
Singapore

13 July 2016 (Wednesday) // 9.00am to 5.00pm

SPEAKERS

Dr. Cai Jungang (Tritech)
Mr. Ong Hwei Luen (JTC)
Er. Kiefer Chiam (BCA)
Mr. Michael Goay (BCA)

REGISTRATION FEE

SRMEG/GeoSS Members:
\$250.00

Non-Members:
\$300.00

PDU/STU: TBA

COURSE SYNOPSIS

This workshop is organised for the 5th time in consideration of good response in 2010, 2011, 2012 & 2014. It aims to present and discuss systematically the geology of Singapore, as the Geological Map of Singapore has been updated from the old version published in 1976 and a new Stratigraphical Framework for the Jurong Group may be proposed soon. The Economic Strategies Committee (ESC) of Singapore 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.

PROGRAMME

Time	Topic	Speaker
8:30 AM	Registration	
9:00 AM	Welcome by Dr Cai Jungang, Vice President of SRMEG	
9:10 AM	Fundamentals of Geology Plate Tectonics, Geologic Time Scale, Minerals vs Rocks, Rock Cycle, Weathering vs Erosion, Geological Structure	Ong Hwei Luen
10:30 AM	Tea Break	
11:00 AM	Geology & Updates Geological Map of Singapore Geological Setting, Features of Geological Formations, Rock Weathering, Geological History	Cai Jungang
12:30 PM	Lunch	
1:30 PM	Sharing on the Proposed Stratigraphical Framework for the Jurong Group Providing an overview on the stratigraphical framework for the Jurong Group proposed by BCA's consultant following the recommendation of Internal Commission of Stratigraphy (ICS) and also based on fieldworks and findings of the deep rock cores carried out by BCA.	Kiefer Chiam Michael Goay
3:00 PM	Tea Break	
3:30 PM	Planning and Rock Investigation for Rock Cavern Development Layout of Boreholes & Geophysical Lines, Need for Various Means of Rock Investigations, Need for Field & Lab Test, Rock Investigation Practice in Singapore	Cai Jungang
4:45 PM	Q&A Session	

Register Online Today! – www.cma.sg/events/srmeg-geology-of-singapore.html

For more information, please contact:

SRMEG Secretariat, 1 Liang Seah Street, #02-11 Liang Seah Place, Singapore 189022
Phone: +65 6336 2328 | Fax: +65 6336 2583 | Email: srmeg@cma.sg | Website: www.srmeg.org.sg

Organised by:



Society for Rock Mechanics
& Engineering Geology
(Singapore)



Geotechnical Society of
Singapore

The 5th Workshop on Geology of Singapore

Singapore Management University
School of Accountancy, Seminar Room 3.3
60 Stamford Road, S178900

13 July 2016 (Wednesday) // 9.00am to 5.00pm

SPEAKERS' PROFILE



Dr. Cai Jun Gang is currently an Executive Director of Trittech 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 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. 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-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. He is the Vice-President of SRMEG.



Mr. Ong Huei Luen is currently a senior Project Manager with Jurong Town Corporation. He obtained his MSc Engineering Geology in Leeds, United Kingdom. In the last 14 years of his career, he has been involved in development and construction of the Underground Ammunition Facility by DSTA and the Jurong Hydrocarbon Storage by JTC. He is part of the team in production of the Geology of Singapore 2nd Edition, and has worked extensively in the Bukit Timah, Bukit Gombak and Jurong Formation.



Er. Kiefer Chiam is currently the Director of Geological & Underground Projects Department and Foundation Engineering Department of BCA. He is a registered Professional Engineer in both Civil and Geotechnical in Singapore. His interest and experience spans widely from site investigation works, foundation design, deep excavation to tunnelling and instrumentation works. He plays an active role in promoting the importance of good ground investigation practice when he was working in Land Transport Authority (LTA) prior to joining BCA. He is instrumental in the development and implementation of a web-based Borehole Information System (BIS) and 2nd generation of Geotechnical Database System (GDB) to monitor ground instrumentation data from LTA's construction sites. In his professional engineering career, he has authored and co-authored more 15 technical papers published in local and overseas geotechnical conferences.



Mr. Michael Goay is currently a Senior Engineering Geologist of Building and Construction Authority (BCA). He has obtained his BSc (Geology) after graduating from Winona State University at Minnesota, USA. He has over 20 years of experience in geotechnical related works particularly in slope stabilisation and tunnelling. He is a registered P.Geol (M'sia). Currently, his works at BCA focus mainly on planning and supervising the ground investigations for seismic survey and deep boreholes carried out in the selected study areas of Singapore to establish a 3D geological model. He is also currently involved in the study of stratigraphy and structural geology of Singapore, conducted by British Geological Survey (BGS) in creating a more refined 3D geological mode.

Organised by:

The 5th Workshop on Geology of Singapore



Society for Rock Mechanics & Engineering Geology (Singapore)

Singapore Management University
School of Accountancy, Seminar Room 3.3
60 Stamford Road, S178900



Geotechnical Society of Singapore

13 July 2016 (Wednesday) // 9.00am to 5.00pm

REGISTRATION FORM

Title: *Prof / Dr / Mr / Mrs / Mdm / Ms Full name: (<i>underline Surname / Family name</i>)		Membership No.:
Organisation:		
Mailing Address:		
Telephone:	Mobile:	Fax:
Email:		

SRMEG/GeoSS Members: \$250.00 per person
 Non-Members: \$300.00 per person

Registration is on a first-come-first serve basis. All registrations must be accompanied by cheque payment or credit card number before the course commences. No cancellation or refund is allowed upon registration, only a replacement of name.

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”

Please select one (1) option only, if required:

Invoice Receipt

Issuing Bank : _____ Bank Draft / Cheque Number : _____

By Credit Card. Please deduct the above amount from my: ***VISA / MASTER / AMEX** (select one)

Card number: _____ Expiry Date (MM/YY): _____

Signature

Date

Please send Registration Form and Payment to:

SRMEG Secretariat

1 Liang Seah Street, #02-11 Liang Seah Place, Singapore 189022

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