

The 6th Workshop on Geology of Singapore

Singapore Management University
School of Accountancy, Seminar Room 1.1
60 Stamford Road, S178900

11 July 2018 (Wednesday) // 9.00am to 5.00pm

COURSE SYNOPSIS

This workshop is organised for the 6th time in consideration of good response in 2010, 2011, 2012 & 2014 and 2016. 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 geology of Singapore has been proposed. Recently, the Urban Redevelopment Authority (URA) organised the exhibition "The Underground: Singapore's Next Frontier". National Development Minister Lawrence Wong, who was at the opening of the exhibition, announced that a 3D underground masterplan by URA will unveil pilot areas and their potential uses next year. With an increasing demand of deep excavation, tunnelling and underground rock cavern development 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.

REGISTRATION FEE

SRMEG / GeoSS Members: \$250.00

Non-Members: \$300.00

PDU & STU: TBA

Register Online Today!

<https://www.cma.sg/e/srmeg11jul18>

PROGRAMME

Time	Topic	Speaker
8:30 AM	Registration	
9:00 AM	Welcome by Prof. Zhao Zhiye, 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 Huei 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	Introduce the New Stratigraphical Framework for Singapore Provide an overview on the new stratigraphical framework for geology of Singapore based on new findings gathered from deep boreholes and geophysical survey carried out by BCA and also geological mapping of rock exposures found in Singapore. The new stratigraphical framework is now consistent with International Commission of Stratigraphy (ICS) guidelines and included a number of significant changes to the way geological units in Singapore were classified and named.	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	

Organised by:



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



**Geotechnical Society of
Singapore**

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

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SPEAKERS' PROFILE



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 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.



Mr. Ong Hwei 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. 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 currently leading the review of stratigraphy and structural geology in Singapore, and work together with the British Geological Survey to create a 3D geological model for Singapore.



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.

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Bus Service Numbers

NTUC INCOME CENTRE (Bras Basah Road)

106, 111, 131, 14, 14e, 16, 162, 162M, 167, 171, 175, 36, 502, 502A, 518, 518A, 551, 575, 576, 577, 578, 579, 580, 581, 7, 700, 700A, 77, 857

HOTEL GRAND PACIFIC (Victoria Street)

12, 175, 2, 32, 33, 51, 61, 63, 7, 80

MRT Station

BRAS BASAH MRT (CC2)

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