



香港岩土及岩土環境工程專業協會
ASSOCIATION OF GEOTECHNICAL &
GEOENVIRONMENTAL SPECIALISTS (HONG KONG)

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ANNOUNCEMENT

AGS (HK) Technical Seminar

Engineering Challenges in the Design and Construction of Deep Excavation and Viaduct Foundation in Kuala Lumpur Limestone Using Case Studies

by

Sharmeelee Subramaniam
(Aurecon Malaysia)

Date: 23 February 2023

Time: 18:30 – 19:30 (Hong Kong Time)

Venue: The webinar will be conducted through Zoom.

Successful applicants will be informed by emails with a Zoom's link to the webinar. Participants should arrange for their own device with a stable network environment to join the webinar.

Enquiry: Haydn Chan (email: haydn.chan@arup.com)

Fee: Free of charge

Registration: <https://forms.gle/di1bSgDYHvV4GjXU8>

Please register not later than 20 February 2023. Successful applicants will receive webinar details on 21 February 2023. CPD certificate will be sent to the attendees after the webinar.

Book Prize: The youth professionals under 35 years old are encouraged to submit their reports (max. 500 words) in quality on this event. Please refer to the AGS HK's website "The AGS Book Prize Reports–Assessment Framework" for details before the submission. The successful candidate will be awarded with the Book Prize that comprises of a book "Geology of Site Investigation Boreholes in Hong Kong" that written by Chris Fletcher, and a coupon of HK\$500 from Eslite Spectrum (誠品生活) or equivalent. The awarded report will further be uploaded to the website of AGSHK. Please send your report to Mr. Haydn Chan by email: haydn.chan@arup.com.



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Synopsis:

Two case studies on deep excavation and viaduct foundation constructed in Kuala Lumpur Limestone shall be presented including the various challenges encountered and the solutions adopted. The first case study on deep excavation will present the use of single large diameter bored piles in Limestone Formation with the appropriate cavity treatment for the building foundation, basement retention system using secant bored pile (SBP) and contiguous bored pile (CBP) with internal strutting and partial top-down / bottom-up excavation method and also the instrumentation monitoring carried out on site. The second case study on viaduct foundation will present the short single pile foundation requirement, construction constraints and the use of light weight backfill material in the form of expanded polystyrene (EPS) blocks to construct the road embankment underlain by the existing SMART and MRT tunnels.

About the Speaker:

Ir. Sharmeelee S. is presently a Technical Director with Aurecon Malaysia. She received her M. Eng. in Geotechnical Engineering from NUS Singapore in 2003 and she is presently pursuing her PhD in Malaysia. She has been with GCU Consultants, a member of the Aurecon Group in Malaysia for the last 19 years. During this time, she has been involved in most of the large infrastructure projects in Malaysia providing geotechnical consultancy services for MRT1, MRT2, Electrified Double Track projects, Pos Betau Hill road, DASH, Jimah Power Plant, BBCC, Belfield Tunnel, etc. Her scope covers the full range of geotechnical engineering including foundation, ground treatment, slopes, deep excavation, walls and retention systems for highways, railways, high rise buildings and large civil infrastructure projects.