



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

Challenges, Successes and Latest Developments for TBM Tunnelling

by

**Ir Guy Bridges
(AECOM)**

Date : Wednesday, 17 December 2025

Time : 19:00 – 20:00 (Hong Kong Time)

Venue : The seminar will be conducted through **face to face** and **Zoom**.

For face to face (G/F, Fincher Meeting Room, KCC (Kowloon Cricket Club), 10 Cox Road, Jordan MTR Exit B, Kowloon)

For 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 : agshk.org@gmail.com

Fee : Free of charge

Registration <https://www.ags-hk.org/event-details/challenges-successes-and-latest-developments-for-tbm-tunnelling>

(for Zoom

only) : Please register by 19:00 on 17 Dec 2025 (HKT). Successful applicants will receive webinar details after registration. CPD certificate will be sent to the attendees, who attended more than 80% of the webinar time, within 2 weeks after the webinar.

Book Prize : Professionals under 35 years of age are encouraged to submit a Book Prize Report (max. 500 words) on webinars and site visits arranged by AGS (HK).

Contributors to successful Book Prize Reports will be awarded a Book Prize that comprises of a book "Geology of Site Investigation Boreholes in Hong Kong" written by Chris Fletcher, and a coupon of HK\$500 for Eslite Spectrum (誠品生活) or equivalent. The successful Book Prize Report will also be published on the AGS (HK) website to showcase your accomplishment.

Prior to report submission, please refer to the "The AGS Book Prize Reports – Assessment Framework"* on the AGS (HK) website. You may submit your Book Prize Report to our assessors by uploading the report file through the AGS (HK) website at <https://www.ags-hk.org/book-prize>. Should you have any questions, please contact us at agshk@meinhardt.com.hk.

*Link to the AGS Book Prize Reports – Assessment Framework:

https://www.ags-hk.org/files/ugd/521a4c_b94496034732484687441cf4ed4d0bf9.pdf



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Synopsis:

TBM technology is constantly being developed, with machines now capable of much more than they could just a few years ago. However, there are still instances where TBM's have struggled or even failed to complete the planned tunnel construction. This talk will review some notable successes and also failures, and describe some of the key factors that have contributed to the project outcome.

The talk will also include a review of the latest developments in TBM technology, ranging from the traditional elements such as cutter performance, maintenance, ground conditioning etc., novel TBM developments, and also on digital developments such as automation, intelligent data management and application of machine learning, that can assist with the optimum operation of the TBM.

About the Speaker:

Guy graduated with a degree in Exploration and Mining Geology from Cardiff University, UK, and with the lack of employment opportunities in Mining in the UK, started his career on a road tunnel project in the UK. After several years working both on site and in the design office, he came to Hong Kong in 1999 to work on Westrail Tai Lam Tunnel and Nam Wan tunnel at Tsing Yi. Although his first projects largely comprised drill and blast tunnels, he has since played a key role in the design and construction of a number of TBM tunnels in Hong Kong, Singapore, India and the Middle East.

He has 30 years of experience in design and construction of tunnels and is currently an Executive Director with AECOM.

He is currently responsible for leading a tunnel team undertaking the feasibility study of a new metro line in Dubai, advising on tunnelling aspects for new metro tunnels and stations in Singapore, and providing supervision services for two TBM tunnelling projects in Hong Kong. He is a Fellow of the Institute of Materials, Minerals and Mining, and Registered Professional Engineer with HKIE.