



BRITISH TUNNELLING SOCIETY



Thursday 8th February 2024 at 18:00 hrs [GMT]

In-Person at

Institution of Civil Engineers, 1 Great George Street, London SW1P 3AA

Unveiling the Hong Kong Tuen Mun Chap Lap Kok (TMCLK) Subsea Tunnels: Challenges, Innovations, and Lessons Learned for Future Projects

Speakers:

Antoine Schwob – *Project Director, Bouygues Travaux Publics*



The TMCLK project was the winner for the Major Project of the Year in the over- €500M category of the ITA in 2019. The completed project provides an alternative access route to the Hong Kong International Airport located on Chek Lap Kok Island, which was only been accessible via the Tsing Ma Bridge. The project encompasses the design and construction of remarkable 4.5km twin-tube subsea tunnels, 57 cross passages, and a 500m cut and cover section. The TMCLK project was opened for public use in December 2020.

The project's challenges included cutting tools replacement at hyperbaric pressure up to 5.8 bar, shafts and tunnelling in newly reclaimed land, 17.6m diameter TBM tunnelling, a bespoke mini TBM for 41 subsea cross passages and more. The valuable experiences gained during this project have significantly contributed to innovations in the tunnel tunnelling industry, paving the way for future projects. Bouygues Travaux Publics and Dragages HK Limited, both subsidiaries of Bouygues Construction, collaborated as a joint venture to design and execute the project over a span of 7 years.

Note 1: This is an in-person lecture but will also be streamed live at:

https://www.youtube.com/watch?v=ooF2bg_GHq

Note 2: Tea & coffee will be served from 17:30 hrs onwards

Note 3: Post-lecture drinks and food will be served at the newly reopened ICE bar. The drinks and food are sponsored by Bouygues-Murphy JV.

In case of any query please contact; The Secretary, BTS Tel: 020 7665 2238

or e-mail: bts@ice.org.uk

or visit: <http://www.britishtunnelling.com>