



## ANNOUNCEMENT

### AGS (HK) & The Hong Kong Polytechnic University Joint Technical Seminar

### “Sub-sea Tunnel Construction of District Cooling System (DCS) in Kai Tak Approach Channel by TBM Pipejacking”

by

**Ir. Wilson Mok**

- Date** : Wednesday, 3 April 2019
- Time** : 6:30 pm – 8:00 pm
- Venue** : Lecture Theatre Y302, 3/F Lee Shau Kee Building, The Hong Kong Polytechnic University, Kowloon (see enclosed map)
- Enquiry** : For enquiries, please contact  
Haydn Chan (email: [haydn.chan@arup.com](mailto:haydn.chan@arup.com) or tel: 2908 4728)
- Seminar Fee** : Free of charge
- Registration** : No prior registration is required. Seating capacity is provided for approximately 120 people. CPD certificates will be provided after the seminar.
- Book Prize** : Book prize is open to all young attendants under 35 years old for the submission of a good quality report (max. 500 words) on this event. Book Prize reward comprises a book "Geology of Site Investigation Boreholes in Hong Kong" by Chris Fletcher and book coupon HK\$300 from 三聯書店.

#### **Synopsis:**

This seminar discusses the design and construction of 1.75km of 1200mm, 1500mm and 2800mm diameter concrete sleeve pipelines, using slurry operated tunnel boring machines, for installation of DCS pipelines, in highly variable ground conditions in the Kowloon Bay area. This was the first time that TBM pipejacking has been used in Hong Kong to construct pipelines below the seabed. The construction techniques for working pits to suit site constraints are also discussed. Hand-dug tunnels, constructed with hand-mining shield and horizontal pipe-piles, for DCS pipeline installation, due to constraints by utilities and interfacing contracts, are highlighted.



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ASSOCIATION OF GEOTECHNICAL &  
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### **About the Speaker**

Wilson MOK graduated from the University of Windsor in Canada and has over 40 years practical working experience in a wide variety of geotechnical and civil engineering projects in both design office and site. He has been involved in the design, supervision and administration of more than 22km long trunk drainage pipeline construction in the urban areas of Hong Kong, using different types of trenchless techniques. He is the author/co-author of several technical papers in this aspect, and his paper titled "Sewer Installation by Pipejacking in the Urban Areas of Hong Kong", in two parts, has been awarded the HKIE Transaction Prize 2007. He was Senior Resident Engineer on a EMSD contract, which involves construction of District Cooling System in Kai Tak, mainly using TBM pipejacking and hand-dug tunneling techniques.

