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

THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學

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ANNOUNCEMENT

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

"The Step Free Access Project at Finsbury Park, London Underground, UK"

by

John Elliott

Date : Thursday, 1st March 2018

Time : 6:30 pm – 8:00 pm

Venue : Lecture Theatre Y305, 3/F Lee Shau Kee Building, The Hong Kong Polytechnic University, Kowloon (see enclosed map)

Enquiry : For enquiries, please contact
Raymond Sin (email: raymond.sin@aecom.com or tel: 3922 8804)

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 BookaZine.

Synopsis:

Finsbury Park is a busy intermodal interchange station in north London. The interchange consists of a National Rail station, a London Underground station and two bus stations, all interconnected. It has been a strategy of successive Mayors to improve and increase accessibility on the underground network, Finsbury Park station being a major transport interchange station outside of Zone 1, was earmarked as one of the key stations to be made step free. In 2015, a Contract was awarded for the Civil and structural elements of the works. The location of the site within the heavily congested existing underground rail network of central London made for challenging design, temporary support and propping, excavation and permanent works installations. Whilst not regarded as a typical mega –project, the site constraints provided all of the same technical demands, and more, which are experienced on larger projects.

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The works are constructed adjacent to and under the high speed electrified East Coast Main line railway with trains running at all times. In addition, the new works tunnelled adjacent to and connected to existing cast iron station tunnels which themselves were directly beneath the high speed railway. All of this infrastructure was at risk if movements were excessive. The temporary works were quite complex. The presentation will provide an outline of the feasibility and concept through to detail design and execution. In particular the unique techniques utilizing sequential excavation and support system to minimise ground movement, keep the trains running and the station open at all times.

About the Speaker

John Elliott is Director of Underground Infrastructure, Golder Associates in the UK (formerly Managing Director of Alan Auld Engineering prior to merger). He specialises in the design and construction aspects of technically demanding tunnelling operations in restricted urban environments under sensitive structures and buildings. He has practised in the infrastructure and mining fields for over 30 years where he has encountered most types of soft ground tunnelling and shaft sinking as well as hard rock mining throughout Canada and the UK.

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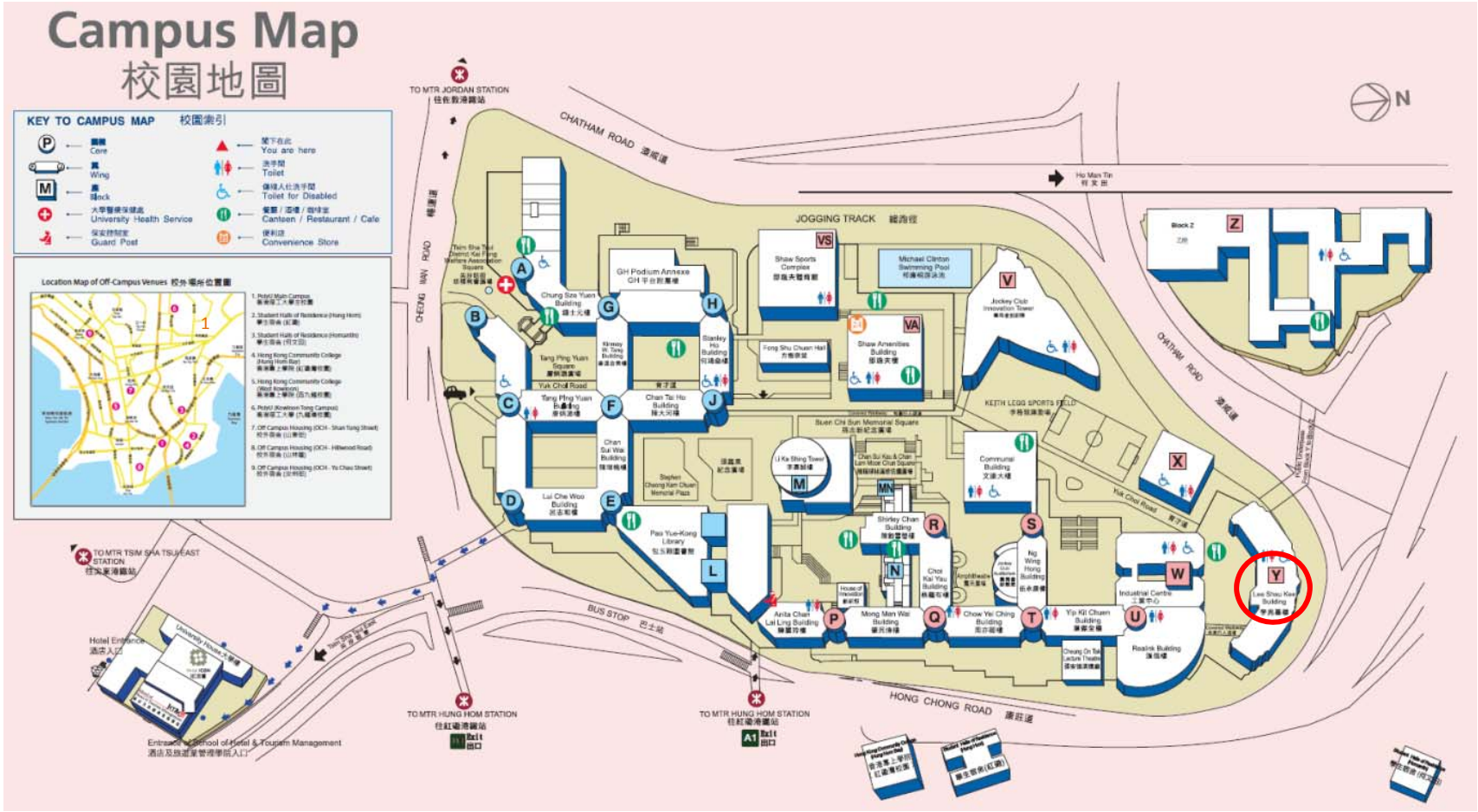

Campus Map, The Hong Kong Polytechnic University