Professional Seminar: Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL) – An Introduction

Speaker:
Ir Alvin Luk
General Manager (XRL E&M)
MTR Corporation Ltd

Date: Thursday, 30 April 2015
Time: 18:30 – 20:00
Venue: Centennial Campus, Podium Theatre CPD L.G. 07
The University of Hong Kong

Abstract:
The Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL) is part of the strategic national express rail network that connects Hong Kong to major cities in the Mainland. The total distance will be 142 kilometres, and the expected travel time from West Kowloon Terminus to Guangzhou South Railway Station will be 48 minutes.

The project scheme in Hong Kong comprises the underground West Kowloon Terminus (WKT) and a 26km-dedicated tunnel running from WKT to the Hong Kong / Shenzhen Boundary with no intermediate station. The XRL tunnel configuration varies depending upon the geological conditions and method of construction. The tunnels between WKT and Futian Station will be designed to cater for train operating speeds up to 200 kph.

WKT is an underground railway terminus located immediately north of the proposed West Kowloon Culture District, and between Kowloon and Austin Station. With a footprint of approximately 12Ha, it will be one of the largest underground station in the world with 15 platform tracks. The building services design within the station is phenomenally challenging. Another special aspect of this project is the interface with Mainland counterparts on express railway systems such as signaling, ticketing system, overhead line system, main control system etc. The presentation will give a brief introduction to this mega railway project, engineering issues and their solutions.

Biography of the Speaker:
Ir Alvin Luk is responsible for the design and construction management of E&M works of XRL Project. He has over 20 years railway project experience and was involved in the delivery of various lines including Modified Initial System, Airport Express Line, Tung Chung Line, Quarry Bay Congestion Relief & Tseung Kwan O Line. He also has over 7 years overseas railway work experience - as the General Manager of Shanghai Hong Kong Metro Construction Management Co. Ltd, a subsidiary of MTR responsible for the delivery of Shanghai Metro Line No 9 Phase I project, and the Project Manager of the Holland Smartcard project. Prior to rejoining MTR in 1994, he worked in CLP on the 400kV transmission projects.

Ir Luk holds a Master’s Degree in Systems Engineering from the Royal Melbourne Institute of Technology, Australia and also a Bachelor’s Degree in Electrical Engineering from the University of Hong Kong. He is a Chartered Engineer, Fellow of HKIE and IET.
**Organizer:** Jointly organized by Department of Electrical & Electronic Engineering Department/HKU and Electrical Division of The Hong Kong Institution of Engineers

**Prior registration is not required.** The presentation will be delivered in English. For enquiries, please contact Ir Geoffrey Chan via chan.loong@gmail.com or 9492-9982