

Pre AGM Talk On “The Design Of Hong Kong - Zhuhai - Macao Bridge (HZMB) : The Hong Kong Link Road (HKLR) Viaduct”

Organised by the Civil and Structural Engineering Technical Division (CSETD)

BEM Approved CPD/PDP: 2 Hours

Ref No: IEM17/HQ/161/T

Date : **15 July 2017 (Saturday)**
Time : **09.00 – 11.00 a.m.**
Venue : **Auditorium Tan Sri Prof. Chin Fung Kee, 3rd Floor Wisma IEM, Petaling Jaya, Selangor**
Speaker : **Ir. TEH TZYU WOOL**

SYNOPSIS

The Hong Kong Link Road (HKLR) is a connection between the Main Bridge of the Hong Kong - Zhuhai - Macao Bridge (HZMB) and the proposed Hong Kong Boundary Crossing Facilities (HKBCF). The project involves the design and construction of a dual 3-lane viaduct, connecting the Hong Kong – Zhuhai – Macao Bridge (HZMB) Main Bridge from the HKSAR boundary to Scenic Hill on Airport Island.



The HKLR comprises a 9.4km long viaduct section going from the HKSAR boundary to Scenic Hill on the Airport Island. The design was using segmental box girders and erected in balanced cantilever method. The decks were formed by 3 single box girders or 2 single box girders with stitching together. The single bored pile was used as foundation without pile cap.

This was the **first project** in Hong Kong using Eurocode EC8 for the seismic design. The design included the new seismic loading requirements in Hong Kong under SLS, ULS and SILS. The talk will focus on the design criteria, analysis as well as design of the viaducts. Some of the construction methods for the project will be addressed too.

SPEAKER BIODATA

Teh Tzyu Wool, PEng, FIEM, FICE, FStructE, CEng. obtained his BEng in Civil & Structural Engineering from UKM and his MSc in Bridge Engineering from University of Surrey. He has presented few talks and courses related to bridges in IEM and other institutions. He has presented talks in South Korea and South East Asia countries over the years too. The landmarked project *Membina Jejambatan menyambungkan Jalan Dewan Bahasa – Jalan Hang Tuah* which he is being awarded “Young Engineer Award”. He has designed quite a number of highway and railway bridge projects locally, in ASEAN countries, Hong Kong and South Africa. Currently, he is one of the Directors of H&T ASSOCIATES Sdn Bhd.

Ir. Dr. NG SOON CHING
Chairman
Civil and Structural Engineering Technical Division

ANNOUNCEMENT TO NOTE

- Non-members may also attend the talk but will need to pay a registration fee of RM50 and an administrative fee of **RM15**. GST is inclusive.
- Limited seats are available on a "first come first served" basis (maximum 100 participants). **To secure your seat, kindly register online at www.myiem.org.my**

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