

Technical Webinar 2020/2021

Cross Bay Link Project (Innovations & Challenges)

Abstract

Cross Bay Link, Tseung Kwan O is located at Southeast side of Hong Kong. Once completed, traffic from the south-eastern part of Tseung Kwan O can commute to and from the western part of Tseung Kwan O via Cross Bay Link without travelling through Wan Po Road and Tseung Kwan O Town Centre, and subsequent to Kowloon East via the proposed Tseung Kwan O-Lam Tin Tunnel. It will be the first marine viaduct in Hong Kong combining the functions of carriageway, cycle track and footpath on one bridge.

The construction of Cross Bay Link is a big challenge as the site is subjected to strong wind and sea waves, in particular during typhoon and monsoon seasons. Apart from the 200m long "Eternity" Arch Bridge with steelworks construction, precast bridge deck and precast elements for sub-structures with weight ranging from about 400t to 3,300t are also adopted in consideration of programme and cost benefits as well as climate factors. This presentation will go through a brief introduction of the Project and how the project team deal with the challenges for the use of precast/prefabricated elements in this type of marine viaduct across Junk Bay.

Date: 5 November 2020 (Thursday)

Time: 6:30pm – 7:30pm

The webinar will be conducted in English via online platform and online registration is required.

~ All attendees will receive an attendance e-certificate ~



QR code
online registration

About the Speaker

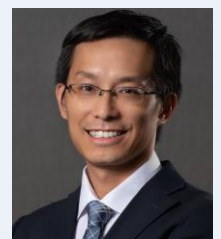
Dr. Barry Lee, Senior Resident Engineer of AECOM Asia Company Limited and Adjunct Associate Professor at The Hong Kong University of Science and Technology, is a chartered engineer and Fellow of ICE. He has 24 years of local and international experience in the area of bridge engineering.

He is specialized in design, planning and construction engineering of long span bridges, concrete viaduct, composite bridges, high speed railway bridges and strait/sea/marine crossing. Besides, he has considerable local and international mega scale infrastructure project management experiences, from design to construction delivery stage. These projects are in Hong Kong, Singapore, Australia, India, Korea, Qatar, Bahrain, Venezuela, Turkey, Denmark, Germany & England. Representative projects are Cross Bay Link in Hong Kong, Tuen Mun - Chek Lap Kok link in Hong Kong, Izmit Bay Crossing in Turkey, Forth Replacement Crossing in UK, Fehmarnbelt fixed link between Denmark and Germany, Maracaibo Second Crossing in Venezuela, Qatar Bahrain Crossing and Busan-Geoje Fixed Link in Korea. Apart from design experience, he has hands-on experience in construction of segmental bridge and cable stayed bridge. Since 2005, he has been lecturing at various Universities in Hong Kong. Dr. Lee regularly offers courses of Bridge Engineering and Design of Prestressed Concrete Structures at the university, he is currently Adjunct Associate Professor, specialized in Bridge Engineering, in the Department of Civil Engineering at HKUST.

Raymond Pau, Technical Director of AECOM Asia Company Limited, is a chartered engineer and Member of HKIE. He has 20 years' experience in the design and construction of major infrastructure projects. He has extensive experience in project management and the design of bridges of various forms, including precast segmental, in-situ span-by-span and U-beam. Representative projects are Improvement of Island Eastern Corridor between North Point and Sai Wai Ho, Central-Wan Chai Bypass project, Tseung Kwan O – Lam Tin Tunnel, Cross Bay Link, and recently, Development of Kwu Tung North New Development Area Remaining Phase Project.



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