You are cordially invited to the seminars organised by PTRC.

Seminars on
1. Assimilation of Inspection Data and Numerical Model for Performance Assessment of RC Bridge Decks
2. Application of SCC to Massive Concrete Construction

Abstract 1:
The data assimilation method is presented for performance assessment of existing RC members and remaining life of bridges decks. The visual inspection data, the electro-magnetic radar detection and acoustic emission tomography are integrated with numerical modeling for cracked reinforced concrete, and the life assessment is applied for asset management of infrastructures.

Abstract 2:
Rock-Filled Concrete (RFC) is a new type of concrete technology for massive concrete construction, which is developed based on the technology of Self-Compacting Concrete (SCC). The RFC is produced by filling the void space between large blocks of rock with SCC due to its good fluidity and segregation resistance. Due to the great advantages which are shown in RFC construction, such as low heat of hydration, fast construction activities, high construction quality, low cost, low energy consumption and low emissions of the greenhouse gas, RFC has been selected as Stated Encouraged Recycling Economy Technology & Low-Carbon Technology by the government of PRC. In recent years, RFC grows rapidly and have been successfully applied in over 90 engineering projects, including marine structure construction. This lecture aiming at giving an introduction of the technology, advantages of RFC based on its applications situations.

Speaker 1:
Prof Koichi MAEKAWA is currently the Distinguished Professor of Department of Civil Engineering, Graduate School of Engineering, at The University of Tokyo, Japan. He has more than 30 years of experience in teaching and research, and he specialises in advisory and committee works in the areas of concrete materials and structural engineering.

Speaker 2:
Prof Xuehui AN is a Professor of Department of Hydro Science and Engineering, Tsinghua University, China. He received his Doctor of Engineering degree from The University of Tokyo in 1996. His major are structural concrete mechanics and concrete materials. His recent research interests include self-compacting concrete (SCC) and rock filled concrete (RFC), smart manufacture and testing technology of concrete and life-span performance evaluation of concrete structures. In the past few years, he has served as a Deputy Chair of Building Waterproofing Technical Committee, Associating of Engineering Construction Standardization in China (CECS) and a council member of Beijing Hydraulic Engineering Society. Since 2016, Prof An is serving as a Deputy Director of the Office of Scientific R&D, Tsinghua University. Prof An is a founder and Chief Scientist of Sinoconfix Co. Ltd., a leading concrete technology company in China.

Date: 21 Jun 2017 (Wednesday)
Time: 9.30am to 11.30am
Venue: CEE Seminar Room A, Block N1, Level B1, N1-B1b-06
School of Civil and Environmental Engineering (CEE), Nanyang Technological University