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

Department of Civil Engineering



Geotechnical Division
岩土分部

Public Lecture

Land Reclamation and Related Soil Improvement Methods in Singapore

by

Professor CHU Jian

School of Civil and Environmental Engineering
Nanyang Technological University, Singapore

Date: March 07, 2018 (Wednesday)

Time: 6:30 p.m. - 7:30 p.m.

Venue: Wang Gungwu Lecture Theatre, Graduate House, The University of Hong Kong

Abstract

Nearshore land reclamation is one of the major construction activities in Singapore in the past decades. Construction and design procedures for the use of sand fill for land reclamation have been well established. However, land reclamation in recent years has become more challenging because of shortage in fill materials and increasing in water depth. In this lecture, the land reclamation and soil improvement practice adopted in the past in Singapore will be introduced. Issues related to the use of vertical drains for consolidation of soft clay such as selection of design parameters and methods for quality control will be discussed. New methods that could be adopted for land reclamation using dredged slurry and the improvement of high water content soil as well as new methods for land reclamation without the use of fill materials will be introduced. Some lessons learned from case studies will also be presented.

About the Speaker

Professor Chu Jian is Director of the Centre of Usable Space and Interim Co-Director of the NTU-JTC Industrial Infrastructure Innovation Centre at Nanyang Technological University, Singapore. He was a professor and James M. Hoover Chair in Geotechnical Engineering at Iowa State University from 2011 to 2015. His research interests include soil properties, lab and in-situ testing, soil improvement and land reclamation. He is the Vice Chair for ISSMGE TC217: Land Reclamation and Committee Member for ISSMGE TC211: Ground Improvement and TC303: Coastal and River Disaster Mitigation and Rehabilitation. He also served as the Chair for ISSMGE TC39 from 2005 to 2009. Dr Chu is an editorial board member for 9 international journals. He has been a keynote or invited speaker at 50 over international conferences. He received the R. M. Quigley Award from the Canadian Geotechnical Society in 2004.

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