



Professor 馮祥  
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## SPEAKER'S BIOGRAPHY

Prof. Chai is a professor of Department of Civil Engineering and Architecture at Saga University, Saga, Japan. He obtained his bachelor degree from Tongji University, master degree from China Academy of Railway Sciences and doctoral degree from Asian Institute of Technology. Prof. Chai has authored more than 120 publications in SCI journals, 2 books and more than 110 conference books, which cover wide areas including numerical methods, laboratory and field testing, ground improvement, etc. He is a member of the Engineering Academy of Japan. Prof. Chai is the associate editor of the journal Canadian Geotechnical Journal and Geotextiles and Geomembranes.

**Date:** 11 September 2019 (Friday)

**Time:** 10:00 a.m. – 12:00 noon

**Venue:** Room Z409, 4/F, Block Z,

The Hong Kong Polytechnic University  
181 Chatham Road South  
Hung Hom, Kowloon, Hong Kong

## ABSTRACT

Two issues about consolidation theory are addressed in this lecture. One is the effect of “non-uniform” consolidation on average degree of consolidation (DOC), and another is a new theory for prefabricated horizontal drain (PHD) induced consolidation. Firstly, by comparing the results of the tests and the FEAs with the analytical results, the effect of the non-uniform consolidation on the average DOC has been confirmed. Secondly, an approximate consolidation theory has also been proposed for a surface soil layer subjected to vacuum pressure applied through the PHDs at a shallow depth from the surface.

\*\*\* All Interested Are Welcome \*\*\*

For further information, please contact Dr Zhen-Yu Yin at Tel. 3400 8470

Free Admission. Please reserve your seat with Dr Sam Feng by email:

sam.feng@polyu.edu.hk.

Certificates of attendance will be provided to participants if they attend the whole lecture.