

## Woh Hup Distinguished Lectures

Join us at this upcoming webinar!

# Numerical Modeling in Geotechnical Practice (Virtual Dream becoming Reality)

Fri, 25 Sep 2020  
16:00 to 17:30 SGT



Speaker

Honorary Fellow Dr Harry Tan Siew Ann

[REGISTER NOW](#)

**Biography:** Dr Harry Tan is a Professional Geotechnical Engineer in Singapore with over 40 years of experience. He has been involved in several major consulting jobs in Singapore, Malaysia and the region. Dr Tan has been actively involved in many deep excavation and pile foundation projects in both the public and private and the region developments, including LTA projects such as Circle Line, Marina Coastal Express Way and Downtown Line. For his sustained contributions to the geotechnical engineering profession in Singapore, particularly in research, education, and improving the standard of geotechnical practice in Singapore and the region, Dr Tan was awarded the “GeoSS (Geotechnical Engineering Society Singapore) Outstanding Geotechnical Engineer of the year Award” in December 2018.

**Abstract:** Computational Geotechnics have advanced to a stage where we now have very advanced soil models that can practically simulate complex soil behaviors to incorporate realistic performance of Geotechnical designs before actual construction. However, the practical reality is that these are seldom exploited in practice for many varied reasons; mainly the lack of time and funds to do refined FEM analysis. The speaker had used some of these models in Plaxis for real projects in his past-varied consulting experiences. He will illustrate the potential of these tools in three cases with good monitoring data to validate numerical capabilities. The first is a deep shaft excavation in DTSS1, second is pore pressure behavior in the Nicoll Highway collapse incident, and third a recent case 12-story buildings on raft foundation on ground improved by short piles as rigid inclusions as settlement reducers.

Host by: Professor Quek Ser Tong

PDU points: (pending)

# Follow Us

## Department of Civil and Environmental Engineering, NUS



[www.eng.nus.edu.sg/cee/](http://www.eng.nus.edu.sg/cee/)



@NUSCEE



@NUS.CEE



@NUS CIVIL AND ENVIRONMENTAL ENGINEERING

---

© 2020 NATIONAL UNIVERSITY OF SINGAPORE  
[CIVIL AND ENVIRONMENTAL ENGINEERING](#)

---

General Enquiry/Registration: Ms Norela Tel: 6516 4314, Email: [nor@nus.edu.sg](mailto:nor@nus.edu.sg)