



Malaysian Geotechnical Society

WEBINAR— CONSOLIDATION BEHAVIOUR OF ULTRA SOFT SOIL IN MAE MOH MINE, THAILAND



Speaker
Prof. Suksun Horpibulsuk, PhD

19 February 2024 (Monday)

4.00—6.00 pm, via Zoom

- BEM Approved CPD Hours: Applying
- PEB PDUs: Applying
- [Click here to register](#)

Synopsis

The reclamation of slurry pond with ultra-soft soil deposit using prefabricated vertical drains (PVDs) with preloading technique in the Mae Moh mine, Lampang, Thailand is a challenging work. Geotextile reinforcement was used to increase the bearing capacity of the soil foundation prior to the installation of sand platform. The delay of excess pore water pressure dissipation at the early loading stage occurred despite the occurrence of large settlements was a distinct behavior of the ultra-soft soil. Within the delayed time, the calculated average degree of consolidation based on measured settlements, U_s increased while the calculated average degree of consolidation based on measured excess pore water pressures, U_e and the undrained shear strength, S_u remained unchanged. Beyond the delayed time, both U_e and S_u increased significantly with time and when $U_s > 90\%$, the difference between U_e and U_s was observed to be small. It was suggested to use U_s for approximation of S_u when $U_s > 90\%$ based on the SHANSEP's method. The successful installation and application of PVD to improve ultra-soft soil in this research is applicable for the ground improvement of similar problematic ultra-soft soils in international land reclamation projects.

Speaker's Profile

Prof. Suksun Horpibulsuk holds a B.Eng. (Civil Engineering), Khon Kaen University, Thailand (1996), M.Eng. (Soil Engineering), Asian Institute of Technology, Thailand, (1998), Ph.D. (Geotechnical Engineering), Saga University, Japan, (2001), Certificate on Computer Aided Design (CAD) of City Planning, Architecture Design and Interior, MOST, China (2003).

He is a Senior Professional Engineer, accredited by Council of Engineers, Thailand Science and Technology Professional in Engineering Geology, accredited by Council of Science and Technology Professionals, Thailand.

Prof. Suksun is currently the Professor and Chair, School of Civil Engineering, Suranaree University of Technology and also holds various positions in various universities.

His academic works include:

- (1) 23 national journal papers
- (2) 350 international journal papers
- (3) 34 keynote/invited papers
- (4) 49 national conference papers
- (5) 115 international conference papers
- (6) 3 books and 4 book chapters
- (7) 1 patent
- (8) 62 h-index and 12,715 citations (SCOPUS)

Registration Fee:

MGS / IEM / GeoSS / CTGS / HKGES Member: **Free**
Non-Member: **RM20.00 per person**

Payment Methods:

- 1) **Online Bank Transfer**
Bank name: **Hong Leong Bank Berhad**
Payee: **Pertubuhan Geoteknikal Malaysia**
Bank Account No: **281-000-12316**
- 2) **PayPal** (<https://paypal.me/mygeosociety>)
- 3) **Online Money Transfer Platforms** (such as Wise)



Scan event into calendar

[Click here to save into your calendar](#)

IMPORTANT

- ✓ After the payment has been completed, please email the transaction receipt to mgs@mygeosociety.com.
- ✓ Each approved registrant will receive a unique Zoom link for the webinar.
- ✓ A minimum attendance of 75% is required in order to obtain a certificate of attendance.