



WEBINAR

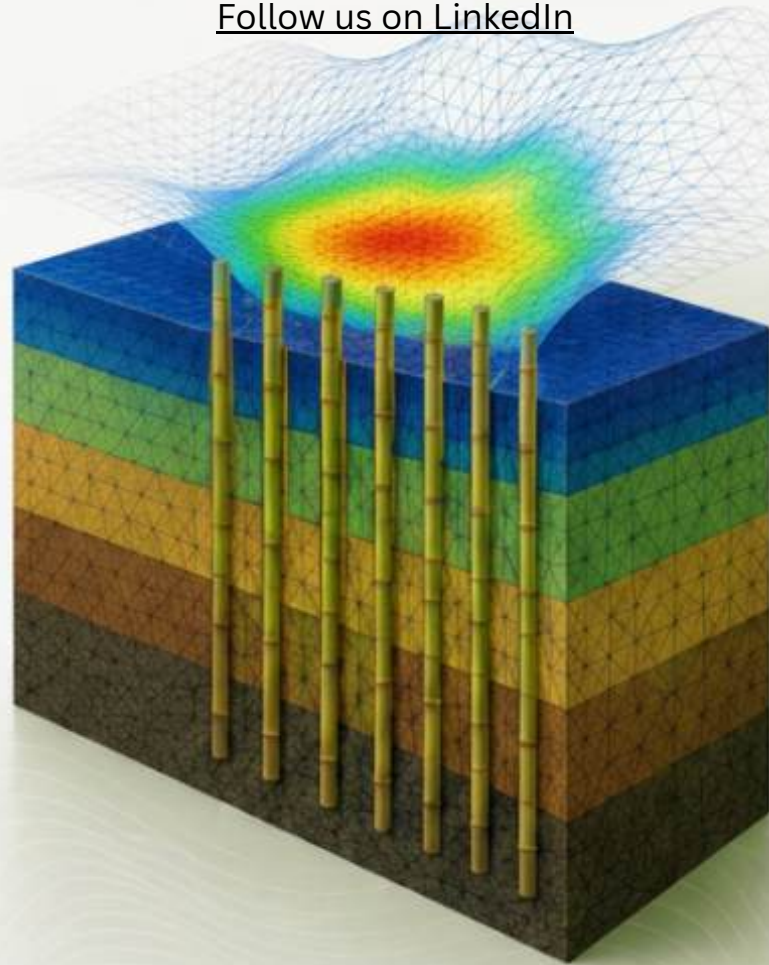


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# NUMERICAL MODELLING OF THE APPLICATION OF BAMBOO PILES FOR GROUND IMPROVEMENT



DATE

**10 SEPTEMBER 2026**  
(THURSDAY)



TIME

**4.30 PM**

## SPEAKERS



**Ir. Dr Vera Loo**

Associate, KTA (Sarawak)  
Adjunct Senior Lecturer  
Curtin University,  
Sarawak



**Mr Choi Han Sheng**

Maritime Structural  
Engineer  
Delta Marine Consultant  
Singapore

Join us for an insightful webinar exploring the use of numerical modelling in the design and analysis of bamboo piles for ground improvement applications.

Webinar series by MGS representatives who attended and presented papers at the ICSMGE 2026 in Austria in June 2026.

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# WEBINAR ON NUMERICAL MODELLING OF THE APPLICATION OF BAMBOO PILES FOR GROUND IMPROVEMENT



## SYNOPSIS

This webinar provides an experience-sharing session on participation in the 21st International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE 2026) held in Vienna, Austria. The speakers will share their experiences and key takeaways from the conference. The speakers will also present their conference paper, "Numerical Modelling of the Application of Bamboo Piles for Ground Improvement."

Bamboo piles offer a cost-effective and potentially sustainable solution for lightly loaded structures on soft ground. However, studies on the behaviour and performance of bamboo pile foundations remain limited. The study uses PLAXIS 3D to back-analyse an in-situ bamboo pile load test and investigate the performance of bamboo foundations in soft clay. Parametric analyses were carried out to examine the effects of bamboo stiffness, pile arrangement, spacing, length, and bamboo mattress on settlement and load capacity of the bamboo foundation.



## SPEAKERS BIODATA

**Ir. Dr Vera Loo** is an Associate at KTA (Sarawak) Sdn Bhd and an Adjunct Senior Lecturer at Curtin University. She graduated from National Taiwan University with a degree in Civil Engineering and holds a PhD in Geotechnical Engineering from The University of Hong Kong. She is a member of ICE, HKIE and IEM. She has about 21 years of experience in geotechnical engineering, including 11 years with consulting firms in Hong Kong and 7 years at Curtin University Malaysia.

**Mr Choi Han Sheng** graduated from Curtin University in Civil and Construction Engineering. Currently, he is working at Delta Marine Consultant in Singapore as a Maritime Structural Engineer, with experience in the design and assessment of marine infrastructure. His technical interests focus on pile-soil interaction, including the seismic response of piled structures, as well as hydrodynamic loading and the structural response of marine and offshore structures.



Starting April 2025, webinar presentation slides will **ONLY** be made available in the MGS Website Members Area upon speaker's consent.

**For more information, check out  
our website at**



**[www.mygeosociety.com](http://www.mygeosociety.com)**

**Or email us at**



**[mgs@mygeosociety.com](mailto:mgs@mygeosociety.com)**



### Registration Fee

MGS/IEM/GeoSS/CTGS/HKGES/MyIGS/HATTI

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)

### \*\*\*IMPORTANT\*\*\*



- ✓ 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.