

WEBINAR



A 20-Year Numerical Modeller's Perspective on Current Geotechnical Engineering: New Developments and an Important Case History



28 November 2025



3.00PM - 5.00PM

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MGS Webinar by Ir. Dr Ong Yin Hoe

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Ir. Dr ONG YIN HOE

SPEAKER

SYNOPSIS

Over the past decade, numerical methods have gained widespread acceptance among civil engineers, developers, and authorities in Malaysia. The demand for expertise in this area continues to grow each year. As new modelling techniques emerge to address various geotechnical engineering challenges, industry professionals are increasingly recognizing the value of numerical methods in supporting informed decision-making. In this presentation, the speaker will discuss recent advancements in modelling eg. large deformation problems to meet industry needs.

A case history will be presented, highlighting common mistakes in numerical modelling through the investigation of a two-level excavation failure in soft clay. This example will demonstrate how numerical modelling can effectively identify the causes of failure in real-world scenarios and therefore reduce risk in construction.

BIODATA OF SPEAKER

Ir. Dr. Ong Yin Hoe (geotechnical engineer) has a bachelor's degree in civil engineering from UTM, a master's degree in soil engineering from the Asian Institute of Technology (AIT), and a Ph.D. in civil engineering from Universiti Teknologi Petronas (UTP). He has worked as a geotechnical engineer for about 20 years, including as a resident engineer for foundation works, anchored contiguous bored pile walls, diaphragm walls, bored piles, and jack-in piles.

He has also been involved in the design of highways on soft ground. As well, he has vast experience in three-dimensional finite element analysis of tunnels, basement excavations, rock slopes, and bored piles and has been involved in impact assessment of basement excavations on existing tunnels, underground rail stations, and existing viaduct structures. He has been invited on several occasions to lecture at MIDAS conferences. He is the author of more than 10 papers on numerical methods and on bored piles. He was appointed as an adjunct lecturer at Universiti Teknologi Petronas and has been invited to advise on the curriculum of the Faculty of Civil Engineering at UTP.

He is currently one of the directors in Dr. Toh Associates Sdn Bhd, a geotechnical consultant in Kuala Lumpur.

CONTACT US

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Registration Fee

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

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- 1) Online Bank Transfer
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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.