



Malaysian Geotechnical Society

Webinar – Talk On  
**“Excavation in Limestone Formation of  
KVMRT Conlay Underground Station, Malaysia”**

Organised by Youth Wing of MGS (YMGS)

by **Ir. Chee Fong Wah**

**16<sup>th</sup> November 2022 (Wednesday) 4.00 p.m. to 6.00 p.m.**

BEM Approved CPD Hours: 2 Ref. No.: IEM22/PP/119/T (w)  
Qualified for 2 PDUs by PEB

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### Synopsis

This presentation will share the deep excavation design experience for the Klang Valley Mass Rapid Transit (KVMRT) Second line (Putrajaya Line) underground station, namely Conlay Station, located within the vicinity of Kuala Lumpur City Centre underlain by Kuala Lumpur limestone formation with natural karstic features and irregular bedrock profiles. Karstic Kuala Lumpur Limestone condition poses challenges especially for the design and construction of excavation works to a maximum depth of 31.5m below existing ground level. To fulfil the construction requirements such as ground movement, preventing surrounding groundwater drawdown and economical design, selection of suitable temporary Earth Retaining Structure System to accommodate the aforesaid purposes are vital. Secant bored pile (SBP) wall supported with temporary ground anchor and strutting system had been selected for overburden subsoil excavation and groundwater control scheme. The experience (planning, design and construction) obtained from this project will be a helpful reference for similar excavation works, especially in karstic limestone formation.



### About The Speaker

Ir. Chee Fong Wah obtained his Bachelor of Engineering (Civil) from Universiti Putra Malaysia (UPM) in 2012. He has been involved in the design and construction of various geotechnical specialist works over the past 9 years, including the foundation for high-rise buildings of more than 40 storey, deep excavation design for KVMRT Line 1 & Line 2 and etc. He has published technical papers on geotechnical engineering in international and local conferences. His research interests include foundation, deep excavation, soft ground engineering and slope stabilisation. He is the present Treasurer for the Youth Wing of Malaysia Geotechnical Society (YMGS).



### Registration Fee:

MGS / IEM / GeoSS / CTGS Members: **FREE**

Non Members: **RM20.00 per person**

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### Payment Methods:

- 1) **Online Bank Transfer**  
Bank: **Hong Leong Bank Berhad**  
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Registration Number: **PPM-028-10-14032013**  
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- 2) **PayPal** (<https://paypal.me/mygeosociety>)
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### \*\*\*IMPORTANT\*\*\*

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

**Ir. Dr. Choo Chung Siung**  
**Chairman**  
**Youth Wing of Malaysian Geotechnical Society**

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