



Malaysian Geotechnical Society

## WEBINAR TALK ON A STRUT-FREE RETAINING WALL SYSTEM FOR DEEP EXCAVATION IN SOFT CLAY

Organised by Youth Wing of MGS (YMGS)

22<sup>nd</sup> June 2022 (Wednesday), 5.00 pm – 7.00 pm

BEM Approved CPD Hours: 2 Ref. No.: Ruj. Kami: BEM/REG/12 Jld. 9(355)  
Qualified for 2 PDU's by PEB

**REGISTER**

### SPEAKER'S PROFILE



**Assoc. Prof. Dr. Aswin Lim** is currently the Associate Professor, Department of Civil Engineering (2022 – now) Parahyangan Catholic University, Bandung, Indonesia and the Head of Civil Engineering Graduate Program, Department of Civil Engineering (2020 – now) Parahyangan Catholic University, Bandung, Indonesia. He is also a Certified Geotechnical Engineer (G-1) in Indonesia, since 2011, Member of ATC 6-International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), Affiliate Member of ASCE, Young Member Presidential Group of ISSMGE: HATTI Liaison and Vice President of Indonesian Society of Geotechnical Engineers (2020 – now).

He has a Doctor of Philosophy, January 2018 National Taiwan University of Science and Technology, Master of Science in Engineering, June 2010 National Taiwan University of Science and Technology and Bachelor of Science in Civil Engineering, February 2008 Parahyangan Catholic. Assoc. Prof. Dr. Aswin Lim has won numerous honours and awards and has close to 30 journal publications. His research areas include deep excavation and retaining wall system, numerical modelling for geotechnical engineering problem and bio-mediated soil improvement.

### SYNOPSIS

The rigid and fixed diaphragm wall strut-free retaining system (RFD system) is a definite advancement of using cross walls, buttress walls, and diaphragm walls as an integrated retaining wall system. It is also a strut-free retaining wall system because no struts should be installed as lateral supports. It is applicable for a large and deep excavation geometry in soft clay. The main characteristics of this system were: (1) forming a rigid and fixed retaining system by a series of rib-walls and cross walls, hence wall deflections below the final excavation level induced by deep excavation were very small; and (2) forming a rigid retaining wall by buttress walls and the cap-slab. The installation of the buttress wall increased the system stiffness of the RFD system and caused the rigid wall deflection. The system stiffness of the RFD system was a major factor in controlling deformations induced by excavation. A case history, namely TPKE excavation (127 m × 105 m) and 13.2 m deep, will be discussed as this excavation adopted the RFD system as the retaining wall system.

#### Registration Fee:

MGS / IEM / GeoSS / CTGS Members: **FREE**  
Non Members: **RM20.00 per person**

#### Payment Methods:

##### 1) Online Bank Transfer

Bank Name: **Hong Leong Bank Berhad**  
Account Name: **Pertubuhan Geoteknikal Malaysia**  
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2) **PayPal** (account: [mgs@mygeosociety.com](mailto:mgs@mygeosociety.com))



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

