



Malaysian Geotechnical Society

Webinar – Talk On “Hill Site Developments in Penang Island, Malaysia”

By **Ir. Yau Ann Nian** *DJN,PKT*

28th September 2022 (Wednesday) 4.00 p.m. to 6.00 p.m.

BEM Approved CPD Hours: 2 Ref. No.: IEM22/PP/116/T (w)
Qualified for 2 PDUs by PEB

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Synopsis

There has been a significant increase in hill site activities in the densely populated Penang Island. These activities include hill site developments for residential and commercial buildings as well as for agricultural activities. Hill site developments often resulted from man-made alterations to the natural landscapes and terrains and these will affect the safety of slopes and the properties on them. The irony is that, hill sites can be developed safely with environmental and sustainable development considerations. Developments must be done with proper design and construction control as well as with proper maintenance. The talk will highlight on the practical concerns of hill site developments in Penang. This includes the planning and geotechnical engineering requirements of hill site developments, such as soil investigations, laboratory test assignments, the design considerations, slope stability checks, methods of strengthening hill slopes, construction and slope maintenance.

About The Speaker



Ir. Yau graduated with a B.Sc. in Civil Engineering from *Cheng Kung University*, Taiwan in 1980. He obtained his Part II Certificate in Civil Engineering from the *Engineering Council* (United Kingdom) in 1992. Ir. Yau is a registered Professional Engineer with Practising Certificate with BEM, Fellow Member of IEM, Member of MGS, and an Associate Member of the *Institution of Civil Engineers* (United Kingdom). He was the Chairman of IEM Penang Branch (2018/2021). Ir. Yau started his engineering career as an Assistant Engineer with *BES Engineering Corporation* in Taiwan in 1980. He joined *Moh & Associates, Inc.* in Taiwan in 1982 as a Geotechnical and Structural Engineer and was transferred to its Malaysian office in 1983 until 1990. Presently, he is an Executive Director of *WEA Engineers & Associates Sdn Bhd* based in Penang.

Ir. Yau's engineering experience includes design and construction supervision in geotechnical, civil and structural engineering disciplines. He is conversant with British and American Design Codes. While in Taiwan, he was partly involved in the construction supervision of a nuclear power station. In Seychelles, Mauritius and Thailand, he was involved in structural and foundation engineering designs for several medium-rise buildings.

In Malaysia, Ir Yau was a team member for the slope remedial investigations and design works undertaken by the *Malaysian-Thai Development Corporation* for the East-West Highway and the Kuala Lumpur-Karak Highway. He was the team leader for *WEA Engineers & Associates Sdn. Bhd.* on the geotechnical and geological investigations, and the design of the support structures for the Gunung Machinchang Cable Car Project in Pulau Langkawi, Malaysia. The design work includes one 38m and one 72m high lattice pylons, three reinforced concrete stations, all the gondolas that were receiving & delivery pylons and cable track supports at the stations, the associated foundations and slope stabilization works.

Ir. Yau is a Qualified Geotechnical Engineer and Geotechnical Checker accepted by the committee of Penang High risk projects (Hill Land Projects, Projects with Reclamations) and also Geotechnical Engineer and Geotechnical Checker of Basement Projects to Majlis Bandaraya Pulau Pinang. He also has extensive experience in structural and geotechnical engineering.

Registration Fee:

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

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



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- ✓ After the payment has been completed, please email the transaction receipt to mgs@mygeosociety.com.
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Ir. Lee Peir Tien
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