



## Malaysian Geotechnical Society

### WEBINAR (via Zoom) ORGANISED BY THE MALAYSIAN GEOTECHNICAL SOCIETY

### “SUSTAINABILITY OF “GREEN SOLUTION” ON PROBLEMATIC GROUND CONDITIONS IN CIVIL ENGINEERING PROJECT”

By Ir. Dr. Low Tian Huat

#### SYNOPSIS

Environmental friendly solution has always been emphasized in many major projects in Malaysia. Low carbon count with green vegetation cover can help significantly to lower the pollution hazard to the environment. However, the implemented green solution with vegetation cover has been found to be non-sustainable or involved high maintenance cost especially with some problematic ground condition. Many slopes along some major highways were with difficult condition for vegetation growth, i.e., acidic soils, hard soils, infertile soil etc. Green solution sustainability for such conditions was found to be impossible and ended up with massive erosion and landslip.

The recent development of bio-engineering and botanical engineering has overcome the sustainability of the green solution in construction industry. With the help of symbiosis of microbes and vegetation type, green vegetation cover on difficult ground has become possible. The symbiosis of the microbes and vegetation will be discussed in the presentation and some interesting case studies will be highlighted.

#### ABOUT THE SPEAKER

After graduation from the University of Malaya in Civil Engineering in 1994, Ir. Dr. Low Tian Huat joined the research team in University Malaya to carry out research on Unsaturated Tropical Residual Soil under the PLUS-IPT research Grant. Subsequently, Ir. Dr. Low pursued his post graduate study and obtained his Master Degree in 2001 and PHD in 2011 from University Malaya. While his pursuing his Post Graduate studies, he worked as geotechnical engineer in consultant firm. Ir. Dr. Low was also providing part time lectures on Geotechnical subjects i.e., foundation engineering, ground improvement, soil mechanics in University Malaya from 2002 to 2008. Currently, Ir. Dr. Low has been working in Mohd Asbi Associates Sdn Bhd since 2002 and he was appointed as partner of the firm. He has published more than 50 papers in journals and proceedings for local and international conferences.



Ir. Dr. Low has been involved in numerous landslide studies for both government (i.e., JKR and JMG) and private organisations (i.e., Resort World Berhad and Petronas). The area based slope study projects involved i.e., Hulu Klang Landslide study, Penang Island Area Based Risk and Hazard Mapping and PBRC for Selangor area are mainly on the risk and hazard mapping and zoning. As for linear infra structures slope hazard and risk mapping and zoning, projects involved were Tamparuli- Sandakan road, Genting Highland Access Road, Sabah Sarawak Gas Pipelines (SSGP) and Kertih, (Terrenganu State) Gas Pipelines.

**30<sup>th</sup> September 2020 (Wed) | 5.00 pm – 6.00 pm**  
**CPD Hours Approved: 1 Ref:IEM20/PP/037/T (w)**  
**MGS / IEM / GEOSS Member: Free**  
**Non Member: RM20.00 per person**

**Limited to 500 participants only (first come basis).**  
**The Zoom link will be emailed to the successful registrants one day before the event.**

Non members may pay the registration fee of RM20.00 per person to:

Payee: **Pertubuhan Geoteknikal Malaysia or Malaysian Geotechnical Society**  
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**Ir. LIEW Shaw Shong**  
**President**  
**Malaysian Geotechnical Society**

To register, please email to the MGS Secretariat at [mgs@mygeosociety.com](mailto:mgs@mygeosociety.com)  
For MGS membership, please go to <https://mygeosociety.com/membership/>

