

CERAMAH TEKNIK TECHNICAL TALK

Geological assessment of rock slope and limestone hill

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The above talk was delivered by P.Geol. Philip Tiong Chong Ngu (G&P) on 16th November, 2022, via Zoom/ Facebook Live. Some 50 members participated. An abstract of the talk is given below:

Abstract: Construction of highway and hill-site development always involve blasting or cutting rock slopes. Rock slope stability is governed by many factors such as lithology, weathering grade, structural discontinuities orientation, properties of discontinuities, rock mass quality, shear strength of discontinuities as well as the groundwater condition. Rock slope failures always happen in planar, wedge, and toppling modes of failure in geological structural planes and rock fall is also a common rock slope failure mode. When dealing with limestone hill stability, where limestone hills generally exist as vertical hilly terrain (karst landscape), the morphological features of the limestone cliff also play an important role in controlling the limestone hill's overall stability. Hence, there is a different methodology for carrying out geological assessment on a rock slope to study the rock slope stability and the hazard zone for limestone hill for development near limestone hill. This presentation presents the methodology for geological assessment of rock slope stability and limestone hills.

We thank Sdr. Philip for his support and contribution to the Society's activities.

Tan Boon Kong

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