

# CERAMAH TEKNIK TECHNICAL TALK

## Geophysical investigation: the good, the bad and the ugly

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Venue : Department of Geology, University of Malaya

This talk was presented by Sdr. Devendran Arumugam and Dr. Boon Chia Weng (Gamuda) on 17<sup>th</sup> Feb. 2017 at the Dept. of Geology, UM. Numerous case studies were presented, and they were associated mainly with recent tunnelling works in the KL area. One major conclusion of the talk was that the combination of two different geophysical methods would reduce uncertainties in the interpretation of the ground conditions, hence produce better results. An abstract of the talk is attached below.

As usual, there was a lively discussion session following the presentations.

*Tan Boon Kong,  
Chairman,*

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**Abstract:** The use of geophysical methods is irregular in Geotechnical Site Investigation works. There are however limitations to each technique, and the prescriptions of these techniques ought to be related to the geology and setting of the site. Some case examples are presented, highlighting the cases where the geophysical surveys are used successfully and less successfully. The goal of this presentation is to show that the quality of the results is subject to the mercy of the geology, data acquisition, data processing and interpretation.

