

# CERAMAH TEKNIK TECHNICAL TALK

## Engineering geological challenges in urban development : From conventional to unconventional approach

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Platform: Zoom

The above talk was delivered by P.Geol. Tuan Haji Ahmad Nizam Hasan (President, GSM; Geosolution Resources) on 15<sup>th</sup> February, 2023 via Zoom. Some 100 members participated. An abstract of the talk is given below:

**Abstract:** Engineering geology is the application of geology to engineering studies pertaining to the geological factors related to the location, design, construction, operation and maintenance of engineering works are recognized and taken into account. The engineering geologist's realm is essentially about earth-structure interactions or investigating how earth or earth processes impact human-made structures and human activities. Conventionally, one of the most important roles as an engineering geologist is the study of geomorphological and geological processes to identify potential geological and associated human-made hazards that may have a significant impact on civil structures and human development. Hence, most of the geological hazard forensic studies required significant of technical skills, strong fundamental and creative minds to solve such more problematic and complicated geological and geomorphological issue ahead. Therefore, transition from conventional to unconventional method or approach is essential to assist the engineering geologist to solve more complex geological riddle.

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

Tan Boon Kong

Chairman, Working Group on Engineering Geology

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