

CERAMAH TEKNIK TECHNICAL TALK

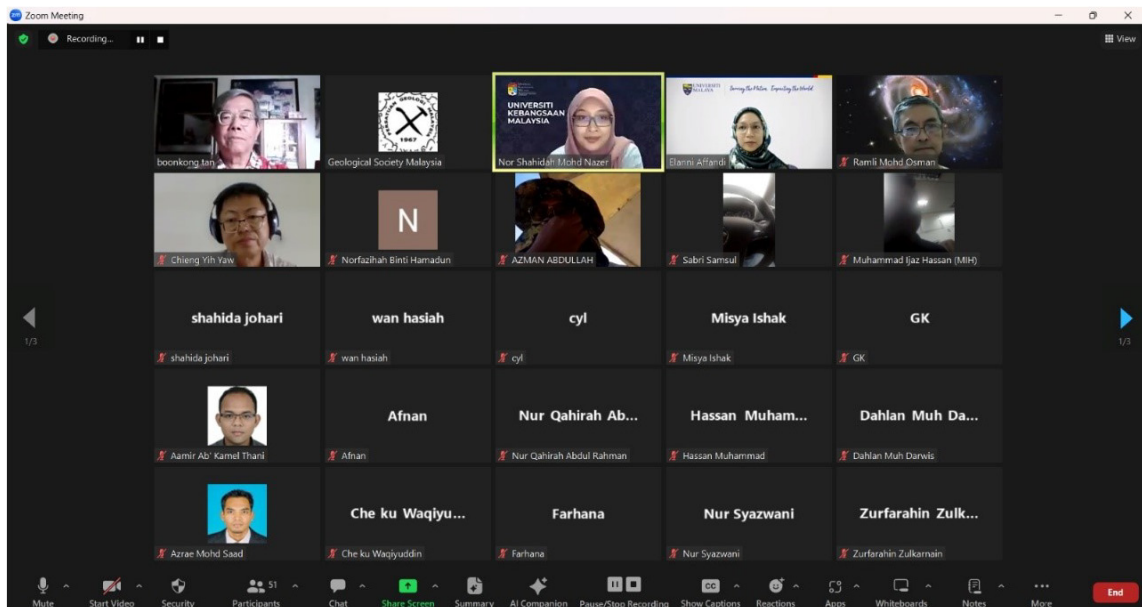
Mapping Kuala Lumpur's resilience: Urban geology for sustainable development

Elanni Md Affandi
Universiti Malaya
Date: 6 March 2024
Platform: Zoom

The above talk was delivered by Dr. Elanni Md Affandi (Universiti Malaya) on 6th March, 2024 via Zoom. Some 75 members participated. An abstract of the talk is given below:

Abstract: Urbanization and the effects of climate change are a challenge towards the building of Kuala Lumpur into a safe, sustainable and disaster – resilient city. The urban geology study gathers geoscientific information that is critical to address local issue that will assist future development and disaster risk reduction strategies from planning and engineering perspective. This research embarks on gathering available geological and geotechnical data across different organization, conducting evaluation on the geology, engineering geology and geohazard then reinterpreting them into practical outputs using geospatial data assessment. Geoscience information supports strategic development planning for building disaster resilience in Kuala Lumpur, Malaysia, which is a city challenged by issues such as landslides, floods and unfavourable ground conditions. Aspects such as the subsurface setting and susceptibility to hazards offer insights to resolve risks that are expected to worsen with climate change. The information on engineering ground conditions and susceptibility to geohazards was then combine to demarcate zones that are suitable for urban development. This approach can be applied to other cities so that relevant geoscience information is integrated for planning and decision making in a changing climate. Additional development should be limited in such areas, and where already developed, targeted hazard-specific measures can be taken to build resilience.

We thank Sdri Elanni for her support and contribution to the Society's activities.



Prepared by,
Tan Boon Kong
Chairman, Working Group on Engineering Geology
8th March 2024