



Malaysian Geotechnical Society

WEBINAR— GEOPHYSICAL APPLICATIONS IN GEOTECHNICAL INVESTIGATIONS FOR UNDERGROUND DEVELOPMENT PROJECTS



Speaker
Dr. Sanjay Rana

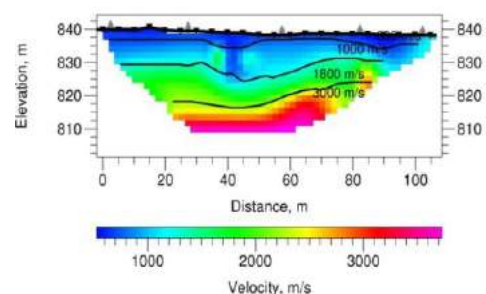
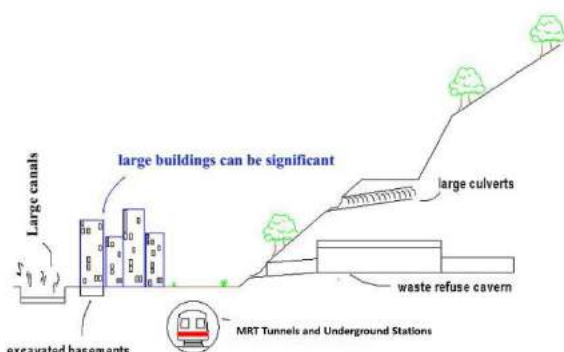
8 March 2024 (Friday)

3.00—5.00 pm, via Zoom

- BEM Approved CPD Hours: Applying
- PEB PDUs: Applying
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Synopsis

Modern major construction is inconceivable without high-level engineering explorations, which play a major role in increasing the economic efficiency of capital investments. For the design of structures, it is indispensable to procure comprehensive high-quality information about the subsurface, within very short periods. The study of diverse natural conditions predetermines a variety of methods and technical means which can be used for carrying out exploratory work. Engineering geophysics is an efficient means of subsurface investigation. The merit of application of this low-cost aid lies in its ease of deployment and rapidity in providing a reliable knowledge of the underground over a large area, substantiating the requisite geotechnical evaluation studies thereby. Technological advancements and development of portable digital data acquisition instrument systems have increased the versatility in evaluating underground conditions and site characterization. The state-of-the-art subsurface geophysical investigations are helpful towards minimizing involvement of the conventional direct exploration methods, aiding in accelerated and economic development of the construction projects.



Speaker's Profile

Dr. Sanjay Rana is a geophysicist by profession. He has been working in the field of engineering geophysics for last 33 years. Dr Rana graduated in 1990 from University of Roorkee, now IIT Roorkee, in M Tech (Applied Geophysics), as Gold Medalist. He also obtained his PhD from Intercultural Open University in Netherlands at the year 2008. Dr Rana started his career with UP State Government and worked briefly as Scientist 'C' with Department of Atomic Energy. He became an entrepreneur in 1995, starting first ever engineering geophysics company in private sector in India. He has been instrumental in starting full-fledged operations in private sector providing services like seismic refraction, ground penetrating radar, electrical tomography, seismic tomography, Microgravity, magnetic etc. He has carried out geophysical investigations for more than 2000 projects including projects in India, Afghanistan, Bahrain, Singapore, Qatar, Saudi Arabia, Nepal, Bhutan, Kuwait etc. Dr Rana has been instrumental in bringing various technologies in India including Ground Penetrating Radar, High Resolution Tomography, Dam Geophysics and Passive Seismic Tomography etc. He has worked extensively on geophysical investigations for tunnels, reducing uncertainties and risk. He is also the principal author of document titled "Geophysical investigation for tunnels" published by Tunneling Association of India & CBIP (Central Board of Irrigation and Power).

Registration Fee:

MGS / IEM / GeoSS / CTGS / HKGES Member: **Free**
Non-Member: **RM20.00 per person**

Payment Methods:

- 1) **Online Bank Transfer**
Bank name: **Hong Leong Bank Berhad**
Payee: **Pertubuhan Geoteknikal Malaysia**
Bank Account No: **281-000-12316**
- 2) **PayPal** (<https://paypal.me/mygeosociety>)
- 3) **Online Money Transfer Platforms** (such as Wise)



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- ✓ After the payment has been completed, please email the transaction receipt to mgs@mygeosociety.com.
- ✓ Each approved registrant will receive a unique Zoom link for the webinar.
- ✓ A minimum attendance of 75% is required in order to obtain a certificate of attendance.