

***The Geological Society of London:
East Anglian Regional Group***

Evening Lecture

Near-surface geophysics as used in Geotechnical Site Investigations

With

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Geophysics is a modern science routinely applied to ground exploration. A range of survey tools are available for mapping/profiling subsurface targets such as mineral bodies, engineering rockhead, shallow archaeology, environmental contamination through to unexploded ordnance. Geophysical surveys are becoming more common place as they become an accepted part of geotechnical site investigations.

Advantages include: low cost, rapid site coverage, no exposure to buried hazards and minimal surface disturbance, and results that are easy to comprehend.

Limitations: certain sites are not suitable i.e. reinforced concrete slabs, noisy sites; targets but does not replace intrusive work; small targets at depth.

Through the use of several case studies, the trials, pitfalls and successes of using geophysics are discussed. The case studies include:

- Bypass scheme over limestone
- Wind farm developments (Wales and Scotland)
- Mine workings (School Extension, Greater Manchester)
- Pipelines

In these case studies methods such as resistivity tomography, microgravity, seismic, electromagnetic and magnetics techniques will be introduced.



Date: Tuesday 25th July 2017 Refreshments from 7.00pm Lecture starts at 7.30pm

Venue: The Kent Room, Assembly House, Theatre Street, Norwich, Norfolk, NR2 1RQ

--All Welcome--

The Kent Room is restricted to a maximum 40 people

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