



The
Geological
Society

-serving science & profession

Western Regional Group

evening lecture

Near Surface Geophysics as used in Geotechnical Site Investigations

Dr. Simon Hughes (TerraDat Uk Ltd)

19 May 2015, 6:30pm @ S H Reynolds Lecture Theatre – Bristol University

Refreshments from 6pm

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 rock-head, 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.

Through the use of several case studies, the significant advantages as well as the trials and pitfalls 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.



Forthcoming Talks

The WRG is constantly on the lookout for fascinating talks. If you would like to present, know someone who is willing or know of a topic that would be of interest please contact the WRG committee (details below) and we will try our very best to accommodate your requests.

Venue

S.H. Reynolds Lecture Theatre (Room G25), Department of Earth Sciences, University of Bristol, Wills Memorial Building, Queen's Road, Bristol BS8 1RJ. For directions see <http://www.gly.bris.ac.uk/about/directions.html>.

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