



The
Geological
Society

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Western Regional Group

Applications of Geophysics in Industry

Professor George Tuckwell, RSK

17th September 2019

Refreshments at 6pm for 6:30pm Start

Venue: The Hub, Aztec West, Almondsbury

The Western Regional Group is pleased to welcome Professor George Tuckwell. George will discuss the advances in physics in early stages of development that could be game changing for ground investigation. The talk will explore the potential of new instruments based on quantum physics and cosmic rays to 'de-risk' the subsurface.

This potential is best understood in the context of existing ground investigation options. Geophysical techniques are amongst the tools that make up the full box available for ground investigation. Using them at the right time in the right way requires an understanding of the information they produce. In some ways this information is the same as it has been for many years – after all (exciting new developments notwithstanding) the physics hasn't changed. In other ways developments in conventional geophysical instruments and software has allowed improvements in the volume and quality of data that can be collected and interpreted.



The requirements of a ground investigation are best stated as a requirement to reduce risk of

unforeseen ground conditions to an acceptable level. What an acceptable level is depends on the site, the project, and the client's informed attitude to risk. As a result of some ground investigation effort (and cost) what do you know, and what do you still not know?

The talk will explore existing and future ground investigation technologies by exploring these concepts.

George Tuckwell is director responsible for the Geoscience and Engineering Division of companies within the RSK Group. He holds the position of Honorary Professor in Engineering Geophysics in the Civil Engineering department at University of Birmingham, is a former Vice President of the Geological Society of London and is a UK nominated expert to the United Nations Comprehensive Nuclear Test Ban Treaty Organisation.

George has also contributed to the drafting of PAS128:2014 'Specification for underground utility detection, verification and location', and drafted the geophysical section of BS5930:2015 'Code of practice for ground investigations'.

Forthcoming Talks: The WRG is constantly on the lookout for fascinating talks. If you would like to present, know someone who is willing please contact the WRG committee (details below) and we will try our very best to accommodate your requests.

Venue: Free Entry, non-members welcome. The Hub, 500 Park Avenue, Aztec West, Almondsbury, Bristol, BS32 4RZ

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