



The
Geological
Society

serving science & profession

**YORKSHIRE REGIONAL GROUP OF
THE GEOLOGICAL SOCIETY**

**Evening Meeting, Wednesday 13th March 2019
Meet from 6.00pm, talk at 6.30pm**

**PRIMING THE INDUSTRY: AN INNOVATION IN
EARTHWORKS MONITORING**

Professor Jonathon Chambers, BGS

The Adelphi Hotel, 3-5 Hunslet Road, Leeds LS10 1JQ

The increasing number and severity of failures in flood defences, transportation and utilities earthworks – predominantly due to extreme weather and ageing assets – has driven the development of a new geophysical ground monitoring system called PRIME (Proactive Infrastructure Monitoring and Evaluation). This innovative technology which enables asset owners to ‘see inside’ vulnerable earthworks, providing early warnings of asset deterioration, will be showcased.



Professor Jonathon Chambers leads the BGS Geophysical Tomography Team, which specialises in the development of new geophysical technologies and applications. His research has a strongly applied and industrial focus, and is concerned with geophysical, geotechnical and environmental survey and monitoring methodologies, and their application to engineering geology, groundwater, mining and slope stability problems.

He has a long track record of leading geophysical R&D projects with a range of partners, including UK government and research councils, universities, and private sector organisations from the minerals, engineering and environmental sectors.

He is a Natural Environmental Research Council (NERC) Knowledge Exchange Fellow for Infrastructure and an honorary professor at the University of Bristol. He is also a Chartered Geologist with a PhD in Applied Geophysics, an MSc in Industrial Mineral, and a BSc (Hons) in Geology. He has 20 years research experience in the area of engineering geophysics, with 60 peer-reviewed journal papers and more than 100 papers at international scientific and industry conferences.

Details of the venue can be found at: <https://www.theadelphileeds.co.uk/>

Contact details: Mark Lee Email: Yorkshireregionalgroup@gmail.com

Next meetings:

- April – TBC
- 8th May – ‘Pontefract Hermitage’ – Chris Short



Yorkshire Regional Group of The Geological Society



@YRGSS



www.geolsoc.org.uk/yrq