



The  
Geological  
Society

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**Speaker:**

**Peter Hewitt**  
Laing O'Rourke

**Date:**

**Wednesday 11<sup>th</sup>  
October 2017**

**Meeting timings:**

**Tea/coffee 17:30  
Start 18:00**

**Location:**

**Burlington House**

**Free to attend.**

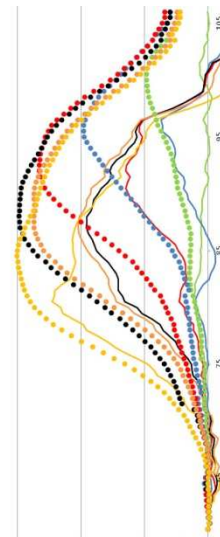
For further information please  
contact the event convener:

Jon Race,  
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## Construction Monitoring - quantifying the risk

**An evening meeting organised by the Engineering Group of the  
Geological Society (EGGS)**

The presentation will outline the dramatic changes that have occurred in the way construction work is monitored over the last six years, seen through the development of Laing O'Rourke's internal Instrumentation and Monitoring department. This will primarily look at ground movement and asset protection monitoring, but will also touch on environmental monitoring such as noise, dust vibration and water quality. The talk will draw on experience and lessons learnt on major projects such as Crossrail and Thames Tideway, to provide practical guidance on how monitoring should be undertaken and how to deal with fundamental issues of error, accuracy, repeatability and the "focussing illusion". Changes in measurement technology will be discussed, as well as looking forward to future development in areas such as fibre optics, laser scanning, photogrammetry and satellite imagery.



Peter is the Geo-environmental Engineering Leader at Laing O'Rourke. He is responsible for the Land Surveying, Monitoring, Geotechnical and Contaminated Land team for Laing O'Rourke. An engineering geologist by training, he has over 25 years of experience in the construction industry and has worked for Laing O'Rourke for the last 8 years.

