

UNIVERSITY OF
BIRMINGHAM

Midland Geotechnical Society

Meeting Notice

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Meeting Venue

Lectures start 7pm

Haworth Lecture Theatre 101,
Chemistry, University of
Birmingham B15 2TT

Refreshments are available prior to the meeting in the Shell lounge, Department of Mechanical and Civil Engineering, from 6:15 onwards.

Monday 3rd October 2016

John Mitchell Award Lecture 2016

Dr Martin Pedley, Skanska

Developments in Geotechnical Engineering & Construction During the Last 25 Years – A Personal Perspective

During the last quarter of a century the geotechnical community has witnessed many changes in design and construction practices. This lecture will give a personal perspective on these changes by reference to direct experience from a number of roles in the geotechnical engineering industry.

Specific areas of focus will be the development of soil nailing, deep foundation construction & design and risk management. These areas will be discussed from the facets of design analysis, specification, technology and human interface and how they have impacted on the competences and capabilities of the geotechnical community.

The lecture will cover:

- How soil nailing research was advanced in the UK - better understanding of bending stiffness, pull-out resistance and effective stress design of bond - why there is a problem relating test data to actual conditions in a slope
- Discuss how design understanding has improved and how (and why) design and construction standards were developed
- Describe how foundation technology (piles and deep retaining wall) projects have become more demanding to meet new infrastructure demands
- What have been the challenges and advances for the geotechnical contractor in relation to design, specification, codes, materials and monitoring
- Expand on how foundation piling sites have become much safer
- How risk management is really about learning and sharing information

About The Speaker: Dr Martin Pedley, a civil engineer by training, Fellow of ICE and Registered Geotechnical Advisor, has worked principally in the design and construction of deep foundations since completing his doctorate research in soil-reinforcement interaction in 1990. His career has been spent in both engineering and technical leadership roles, principally at Cementation Skanska, most recently as managing director. During this time he was involved in many major building and infrastructure schemes, including Crossrail, in the UK and overseas. He has been actively engaged in the development of new standards and specifications, drafting and sharing of best practice and research in support of new ground technologies. His current role is Vice President within Skanska's global risk management team.

This lecture has been supported by sponsorship from:

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