

UNIVERSITY OF
BIRMINGHAM

Midland Geotechnical Society Meeting Notice

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Contact Us

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Meeting Venue

Lectures start 7pm

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University of Birmingham B15 2TT

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Refreshments are available prior to
the meeting Engineering, from 6:15
onwards.

Talk kindly sponsored by:

APPLIED GEOLOGY
geotechnical and contaminated land specialists

Monday 8th January 2017

Geotechnical Aspects of HS2

Professor Nick Sartain

HS2

Synopsis

HS2 is the proposed second high speed railway for the UK. It presents an opportunity for a step-change in public transport, relieving congestion on the existing rail and road network, reducing journey times, bringing people closer together, and providing the impetus to rebalance the UK's economy. The design and construction represents a huge engineering challenge in terms of both scale and complexity, with Phase One (London to Birmingham) scheduled to open in 2026 and with routes to Manchester and Leeds to open in 2033. This presentation will describe some of the geotechnical challenges on the project, in particular those that are related to very high train speeds but also those which are necessary to deliver modern infrastructure which will outlive the 21st Century. Topics will include geodynamics, ground movements, earthworks, slopes, geohazards, and geotechnical data management.

About our speaker

Nick Sartain is the Head of Geotechnical Engineering at HS2 where he is responsible for the specification, integration and assurance of geotechnical workstreams on the project. He has 20 years of experience in geotechnical design including earthworks, foundations, slope engineering, seismic engineering and geotechnical risk assessment. Nick has published 11 technical papers, was a principal author of the ICE's Specification for Piling and Embedded Retaining Walls 3rd Edition and is on the editorial panel of the ICE's Geotechnical Engineering Journal. He contributes to the ISSMGE's Technical Committee TC304 "Risk and reliability" and BSI committee RAE/2/-/8 "Design of Ballastless Track Systems". He is a former chairman of the MGS.

This seasons remaining lectures are as follows:

Date	Location	Speaker Name & Company	Title	Sponsor
<i>5th February</i>	<i>University of Birmingham</i>	<i>TBC</i>	<u>IGS joint meeting</u> (provisional) Talk title TBC	<i>WSP</i>
<i>5th March</i>	<i>University of Birmingham</i>	<i>Mike Streetly, ESI</i>	<i>Hydrogeological Interpretation @ Stonehenge</i>	<i>Arcadis</i>
<i>9th April</i>	<i>University of Birmingham</i>	<i>Len Threadgold, Geotechnics</i>	<i>John Mitchell Lecture 2018</i> <i>Re-thinking Site Investigation Design, Practice and Procurement</i>	<i>Geotechnics</i>
<i>14th May</i>	<i>University of Birmingham</i>	<i>Ben De Waal, The Fiscal Incentives Group</i>	<i>Environmental lecture: Land remediation tax relief on brownfield/derelict sites</i>	<i>DTS-Raeburn</i>

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