

BGA Evening Meeting

Wednesday 13th April 2016 at 18:00

GODFREY MITCHELL THEATRE, INSTITUTION OF CIVIL ENGINEERS,
ONE GREAT GEORGE STREET, WESTMINSTER, LONDON SW1P 3AA

Geotechnical challenges of HS2

Nick Sartain, Lead Geotechnical Engineer, HS2
Sarah Trinder, Geotechnical LDE for Phase One, HS2



Summary:

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 and 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 cover a high-level review of the Phase One route and will look at some of the geotechnical challenges on the project including the ground investigation, geodynamics, ground movements, earthworks, slopes, geohazards, foundations and geotechnical data management.

Biographies:

Nick Sartain has nearly 20 years of experience in geotechnical design including earthworks, foundations, slope engineering, seismic engineering and geotechnical risk assessment. Much of his recent work was on linear infrastructure projects in the UK and overseas where he variously acted as designer, checker and design manager. He is now the Lead Geotechnical Engineer at HS2 where he is responsible for the specification, integration and assurance of geotechnical work-streams on the project.



Sarah Trinder has 26 years' experience of geotechnical and civil engineering in the UK and overseas, including design, construction and management experience of ground investigations, highways, slopes and landslides, earthworks, retaining walls, soil nailing, reinforced earth, canals, and contaminated land assessment and remediation. Sarah is currently assigned to HS2 from CH2M (Development Partner to HS2) and is the Geotechnical Lead Discipline Engineer for Phase One.



The event will be broadcast online, details for which will be issued to BGA members by email prior to the meeting. After the Lecture the ICE Café Bar in One Great George Street will be open for networking opportunities.

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