

UNIVERSITY OF  
BIRMINGHAM

# Midland Geotechnical Society Meeting Notice

[www.midlandgeotechnicalsociety.org.uk](http://www.midlandgeotechnicalsociety.org.uk)

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## Contact Us

Honorary Secretary:  
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## Meeting Venue

Lectures start 7pm

Lecture Theatre G31, Dept of  
Mechanical and Civil  
Engineering, 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.

This lecture has been supported by sponsorship from:



## Monday 13<sup>th</sup> January 2020

**Anurag Kushwaha and Alex Deltenre, Atkins**

**East West Rail P2**

**From Ground Investigation to Detailed Design**

### Synopsis:

The presentation will give an overview of the geotechnical work undertaken on the East West Rail (EWR) Phase 2 scheme. The East West Rail scheme proposes the re-introduction of the passenger services between Oxford and Cambridge, before continuing to Norwich and Ipswich. The scope of EWR Phase 2 (Western Section), connects Bicester, Aylesbury Vale Parkway, Bletchley, Milton Keynes and Bedford. This will be undertaken through upgrading and improving existing single and mothballed railway lines to a twin track railway in order to run passenger services running at speeds of up to 100mph. The Phase 2 scheme is approximately 35km in length and construction to commence on site during summer 2020 with an aim to open the route by 2024.

The geotechnical scope involves undertaking the ground investigation, design to widen cuttings and embankments, design foundations for new bridges, footbridges, station buildings, and design of trackbed formation. At Bletchley, the scope includes assessment of existing foundations for the existing Bletchley Flyover viaduct and construction of a major bridge over the West Coast Main Line (WMCL) by demolishing the existing section of the viaduct over WMCL. The Ground Engineering design teams for EWRP2 have embraced a digitally driven design ethos throughout the project by delivering a fully integrated federated 3D i-Model for the entire earthworks along with route.

### About the Speakers:

Anurag is a Chartered Civil Engineer with over 20 years' experience in civil and geotechnical engineering on major infrastructure projects in the UK, Middle East, Denmark and India. Anurag's current role on the

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scheme is being the Alliance Responsible Engineer (ARE) for the Earthworks and overall geotechnical lead on the project having an overall oversight of other geotechnical elements across the entire route.

Alex is an Engineering Geologist with 7 years' experience, gained in the UK and overseas in both the geotechnical and mining industries. Alex started his career in geotechnical engineering at Atkins in Birmingham over 2 years ago and has been involved in the EWR P2 Ground Investigation since then. Alex' role developed from initially focusing on data management and on-site supervision to the management of the GI and producing ground models.

### Upcoming lectures..

Monday 3<sup>rd</sup> February 2020

#### **National Buried Infrastructure Facility**

Prof. David Chapman, *University of Birmingham*

Monday 2<sup>nd</sup> March 2020

#### **CIRIA Abandoned mine workings manual**

Scott O'Neill, *Aecom*

Monday 6<sup>th</sup> April 2020

#### **John Mitchell Award Lecture**

Speaker TBC

Monday 4<sup>th</sup> May 2020

#### **AGM & Environmental Lecture – Challenges of Redeveloping Historic Landfills**

Yolande Macklin & Kate Canning, *Arup*