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| WSP Logo**Monday 6th November 2023****Fibre optic sensing – A distributed monitoring technology for earthworks?****David Wright, Jacobs****Abstract:**For several years, the Centre for Smart Infrastructure and Construction (CSIC) at Cambridge University has been researching the potential for use of fibre optics within the civil engineering industry. More recently, Huesker have developed a manufacturing process to incorporate fibre optic cables into geogrid, forming a Sensorgrid, which has shown promising performance when tested under laboratory conditions. This talk summarises the approach and findings of recent trials to investigate the performance of this technology at a larger scale, under site conditions, together with concepts for future applications. The trials were designed by Jacobs and constructed at the HS2 Phase 1, C1 site by ALIGN. Funding for the trial was provided by the HS2 Learning Legacy.**Speaker:***David graduated from Portsmouth University in Engineering Geology and Geotechnics and spent 25 years at Atkins, rising to Chief Engineer and Regional Manager for Atkins Midlands and South West Team. He is currently Head of Geo-digital Technology for Jacob’s Tunnelling and Ground Engineering business.* **This meeting is in person at the University of Birmingham. Details to the left.** |  |

**This season’s remaining lectures...**

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| **Date** | **Speaker/Presentation** |
| 4th Dec 23 | MGS Early Career Award**Speakers & Titles TBC** |
| 8th Jan 24 | **Scott O’Neill, AECOM & TBC from Network Rail***Minimum viable product* |
| 5th Feb 24 | **Speaker from University of Birmingham - TBC***Title TBC* |
| 4th Mar 24 | **Ian Gardner, Hydrock***All things E’* |
| 8th Apr 24 | John Mitchell Award Lecture 2022**Professor Michael Winter, Winter Associates** *Road Asset, Socioeconomic and Fatality Risk from Debris Flow* |
| 13th May 24 | **Alan Phear, Arup***Sustainable Design in Earthworks* |

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