



Tuesday 16th February 2010

The Geological Society Burlington House, London

5.00pm for 5.30pm

FORTH REPLACEMENT CROSSING GROUND INVESTIGATION

Paul Mellon, Alistair Chisholm and Stewart Drennan

(Transport Scotland, Jacobs Arup Joint Venture)

The Forth Replacement Crossing represents the largest transport infrastructure project in Scotland for a generation. Transport Scotland has appointed a Joint Venture of Jacobs and Arup to prepare a specimen design and produce contract documentation. Part of this commission has been the design and supervision of a substantial programme of ground investigation to inform the preparation of the specimen design.

The background to the past surveys and ground investigation works will be described by Paul Mellon, whose presentation will lead on to the milestones that have led to the current bridge proposal and the letting of three ground investigation contracts.

Alistair Chisholm will look at the main crossing marine ground investigation. He will begin by summarising the geology in relation to the bridge structure before describing the investigation techniques employed from marine jack-up platforms in the estuary. Some insight into life working upon jack-up platforms in up to 23m of water will be described. He will then focus on some of the specialist geotechnical testing undertaken in delivering a competent ground model.

Stewart Drennan will discuss the network connection ground investigation works north and south of the main crossing. He will summarise the geology of the areas, the historical land use and discuss the findings of the ground investigation. He will concentrate on the particular areas of difficult ground conditions and the techniques undertaken to gather the geotechnical information. Some insight into the overall processes involved in large scale ground investigation projects will also be given.

Paul Mellon (Transport Scotland) is an Engineering Geologist who has worked in both Local Authority and private consultancy, specialising in ground investigations and geotechnical applications of GIS, before joining Transport Scotland. He is currently the Geotechnical Manager for the Forth Replacement Crossing project.

Alistair Chisholm (Jacobs Arup Joint Venture) is a Chartered Civil Engineer with nearly 20 years experience in the profession, with particular expertise in geotechnical engineering, ground investigation and contaminated land assessment. He is an Associate with Ove Arup and Partners and (recent) past Chair of the SGG.

Stewart Drennan (Jacobs Arup Joint Venture) is an incorporated engineer with 25 years experience in the profession. His main experience is with ground investigations for large scale infrastructure projects. He has been involved with the M74, M80, Clackmanshire and Skye Bridges and is also working on the Aberdeen Western Peripheral Route project. He is a Technical Director at Jacobs.

Refreshments will be served in the lower library from 5.00pm.

There is no charge for the meeting however please register your interest by emailing the convenor. Any queries may also be addressed to the convenor.

Convenor: Andrew Doe, Halcrow Group Ltd, 44 Brook Green, London W6 7BY. Tel: 0208 233 3537/email: doea@halcrow.com



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