

FLEMING AWARD 2016

Wednesday 7th December at 6.30pm

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

Finalists:

Project	Teams
Crag End Landslip	Volker Stevin, Atkins, Northumberland County Council, Keller
Crossrail C300 & C410 Compensation Grouting	Crossrail, BAM Ferrovial Kier JV, Keller BAM Ritchies JV
Farnley Haugh Emergency Works	Renewals Collaborative Delivery Partnership (RCDP) - Network Rail, CML, Aecom

After the presentations, while the judges consider their verdict, a short keynote lecture will be given by:

TONY O'BRIEN, MOTT MACDONALD

ON

**Geotechnical Characterisation:
Recent Developments and Applications**

(synopsis and biography overleaf)

Cementation Skanska will host drinks and nibbles after the winner has been announced

All are welcome

Please book online via the ICE website to attend in person or watch online.

Forthcoming meetings:

Wednesday 11th January 2017

John Mitchell Award Lecture (6.30 pm at ICE)

Wednesday 15th February 2017

Joint BGA Evening Meeting with EGGS (6.00 pm at ICE)

Wednesday 15th March 2017

Rankine Lecture and Dinner (at Imperial College)

PTO for keynote lecture information

Advance registration required for personal and online attendance at

www.ice.org.uk/fleming2016.

Not a BGA member? Join today at <http://www.britishgeotech.org.uk>

In case of any query please contact BGA Co-ordinator
020 7665 2007 or email: bga@britishgeotech.org.uk

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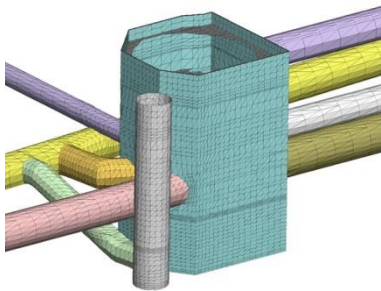
on

Geotechnical Characterisation: Recent Developments and Applications

while the judges deliberate

Summary:

A good understanding of ground behaviour is a fundamental requirement for geotechnical design and construction. Conventional ground investigation practice tends to focus on the measurement of basic index and strength properties. Numerical modelling (e.g. finite element and finite difference) techniques have developed rapidly in the last decade or so, and are now increasingly used for design and for assessing interaction effects between new and existing structures.



For the potential benefits of numerical modelling to be realised, it is necessary to obtain reliable data on the ground's stress-strain properties, not just strength. Hence, when planning ground investigations it is important to focus on how best to determine the ground's deformation characteristics. The benefits of an integrated approach which utilises both laboratory and in-situ testing will be outlined; however, despite advances in ground characterisation, some knowledge gaps will be inevitable. Fragmented procurement processes can lead to inadequate investigations and this may be an increasing trend. For geotechnical practice in the future what are the options to counteract this adverse trend and optimise the quality of ground investigation?

Biography:

Tony is the Global Practice Leader for Geotechnics in Mott MacDonal, and is the Professional Excellence Director for the Transportation Unit. He has a broad range of experience gained on major projects in the UK, North America, Middle East and SE Asia. Tony has contributed to the development of several design guides including the ICE Manual of Geotechnical Engineering. He has a keen interest in applied research and is a Visiting Professor at Southampton University and a Visiting Lecturer at Imperial College. Tony is a Fellow of the ICE.



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