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BIRMINGHAM

Newsletter October 2011

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October Meeting
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www.midlandgeotechnicalociety.org.uk

Honorary Secretary:

Alan Turner

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Meeting Venue

Lectures start: 7pm

Location:

HAWORTH BUILDING,

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

Registered Charity Number: 514610

Midland Geotechnical Society Newsletter

Volume 7, Number 2

October 3rd Meeting Ground Source Heating and Cooling:

The Good the Bad and the Ugly. A general overview of geothermal ground source heating and cooling in the UK

Chris Davidson, Michael Crane, & Tony Amis

Geothermal International Ltd

Chris Davidson is Chief Technical Officer of Geothermal International the UK market leader in large scale ground source heat pumps. Chris graduated in Theoretical Physics at Imperial College before working for 10 years in Marketing and Business Systems at Ford Motor Company. In 2001 he cofounded Geothermal International and is now regarded globally as a leading designer, speaker and trainer on ground source heat pump systems.

Chris will present a general overview of ground source heating and cooling through the use of heat pumps, how they work, what they deliver, their use in the market place and where we go from here.

Tony Amis is the Business Development Director for Geothermal International Ltd. The majority of Tony's experience has been involved in managing large foundation projects in the UK, Hong Kong, and Singapore working for Cementation. He became increasingly interested in the opportunities associated with geothermal heat pumps, particularly through their use with energy piles. In 2007 he initiated trials working with Lambeth College and Geothermal International Limited to investigate the effect of heating and cooling of structural piles. He moved to Geothermal International Limited in 2009 and is now involved in raising the profile of all ground source and cooling applications both in the UK, Europe and the US, at the same time continuing research of the effects of on foundations working with Cambridge University, Virginia State University and Texas A&M.

Tony will present geothermal and structural piles and diaphragm wall examples of works being undertaken at One New Change London and Cross Rail.

Michael Crane is the Director of Ground Engineering for Geothermal International Limited. He is a chartered geologist with 22 years experience in geotechnical and environmental site investigation contracting and consultancy. He joined Geothermal International Limited in 2008 to establish an in house drilling division; control contracted drilling operations and provides an in-house geological and hydro-geological expertise to the rapidly growing business. Since joining Geothermal International has worked widely throughout the UK and Ireland, Spain and Sweden.

Michael will present an example of open and closed loop systems, the challenges and associated risks. He will also discuss UKAS accreditation for drilling contractors to meet MCERTs for RHI funding.

This lecture has been supported by sponsorship from: **Hyder**