

Engineering Group of the Geological Society

The 3rd Engineering Group Forum and 10th Glossop Lecture

Wednesday 25th November 2009



The 10th Glossop Lecture by:

Professor C. Paul Nathanail

Professor of Engineering Geology at the University of Nottingham

'Engineering geology of sustainable risk based land quality management'

Preceded by the 2009 Glossop Award presentation by:

Stacy English (W. A. Fairhurst & Partners) on 'Rockfall Protection of Jamestown Wharf, St Helena.'

Wednesday 25th November 2009

Programme: 17:00 Tea; 17:30 Prompt start; 19:30 Glossop Dinner (optional – see overleaf)

Venue: The premises of the Royal Geographical Society, 1 Kensington Gore, London

(map on www.geolsoc.org.uk/engineering)

The Engineering Group Forum and Glossop Lecture are kindly sponsored by Arup, Atkins, Bachy Soletanche, Crossrail, Jacobs, Mott MacDonald, Scott Wilson and the University of Portsmouth.

Abstract: Optimal urban land reuse relies on visionary planning and a sound conceptual understanding of the nature of the land and how it will interact with engineering and thereby society. The current ecological footprint of Homo sapiens cannot be supported for long and that of developed societies is becoming increasingly unacceptable worldwide. If we accept that you cannot successfully manage what you cannot understand, then we need to understand the land beneath our feet if we are to be judged as wise stewards of the land by succeeding generations.

A risk based approach to land management was thought to be more cost effective than seeking to recover any historic spills or releases of hazardous substances. However, the required skills base is still being built and endemic inefficiency results. Engineering geology's principles of ground characterisation developed for construction and mining projects equally apply to formulating conceptual models of the spatial and temporal distribution of, and uncertainties in, contaminant sources, receptors and connecting pathways or isolating barriers. Such a model informs scientific risk estimation and underpins value-laden risk evaluation.

Risk reduction, whether by pathway interruption or source removal, benefits from detailed engineering geological understanding. Such remediation presents wider environmental and economic opportunities. Brownfield sites, whether contaminated or not, offer local non fossil fuel energy generation, storage and distribution opportunities which can only be exploited if they are integrated. Engineering geologists communicate complex ground conditions and associated uncertainties to other professionals: They are well placed to foster the integration of risk based land management into sustainable redevelopment.

About the Speaker: Paul is the Professor of Engineering Geology at the University of Nottingham and Managing Director of Land Quality Management Ltd. His approach combines research, teaching and consultancy across the spectrum of risk based contaminated land management and sustainable urban regeneration. His team have developed decision support tools for site investigation design, human health risk assessment and remediation strategy selection. Paul chairs IAEG Commission C20: Risk Based Land Management and is a director of the CABERNET brownfield regeneration network. He is a Specialist in Land Condition (www.silc.org.uk) and, as a Chartered Geologist, represents the Geological Society on the SILC Professional and Technical Panel.

Convenor: Chris Martin (email: chris.martin@arup.com)



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The 3rd Engineering Group Forum on: 'Engineering Geology and Planning'

One day discussion forum will include sessions on:

Engineering Geology and Planning Constraints providing an overview of planning and engineering geology, ground subsidence hazards, urban landslides, planning in pollution control and urban flooding.

Speakers include Brian Marker, Clive Edmonds, Robin McInnes, Alan Thompson, David Brook and Peter Bide.

Land Evaluation and Site Assessment providing an overview of techniques for site assessment including role of risk in engineering geology, environmental information systems, three dimensional urban engineering geology, contaminated land and GIS modelling for assessing risk in planning.

Speakers include Martin Culshaw, Mike Winter, Mark Lee, Jim Griffiths, James Apted and Andrew Cook.

The Engineering Group Forum will be followed by the Glossop Lecture and Award (details overleaf)

Wednesday 25th November 2009

Programme: 09:30 Registration; 10:00 Prompt start; 17:00 Close and Glossop Tea;
17:30 Glossop Lecture and Award; 19:30 Glossop Dinner (optional - see below)

Venue: The premises of the Royal Geographical Society, 1 Kensington Gore, London
(map on www.geolsoc.org.uk/engineering)

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Convenor: Dr Malcolm Whitworth (email: Malcolm.Whitworth@port.ac.uk)

ENGINEERING GROUP FORUM AND GLOSSOP DINNER REGISTRATION INFORMATION

Registration is required to attend the Engineering Group Forum; student discounts are available.

There is no registration or charge to attend the Glossop Lecture.

Registration is required for the Glossop Dinner, which includes a three course sit-down meal and wine (additional bottles will be available for purchase).

Costs: Forum registration £130; Forum registration (student discount) £65; Glossop Dinner £45; Combined Forum Registration and Glossop Dinner £170.

Download a registration form or complete the on-line registration via the Geological Society website www.geolsoc.org.uk/engineering. Alternatively contact David Waring, Engineering Group Secretary (David.Waring@atkinsglobal.com; full contact details below) to be sent a copy of the registration form.



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