



## Engineering Group of the Geological Society



### Evening Meeting

Date/time: 5.30pm for 6pm Tuesday 20 October 2009

Venue: The Geological Society Burlington House, London

## **GLOBAL ENGINEERING GEOLOGY: GEOHAZARD, GEOTECHNICAL AND CULTURAL CHALLENGES**

Two presentations will feature case studies of major developments in order to highlight the geohazard, cultural and geotechnical challenges of working in non-UK regions.

**David Shilston, Atkins, will present: "A major pipeline in the Caucasus - resolving geohazard, geotechnical and cultural challenges"**

Starting at Baku on the coast of the Caspian Sea, the 1,700km long BTC Oil Pipeline runs almost the entire length of the Caucasus before turning south to cross Turkey and end at Ceyhan on Turkey's Mediterranean coast. This presentation will describe the design and construction of the pipeline in Georgia, where the geo-challenges of landsliding and active seismicity had to be overcome in a geologically, scenically and culturally fascinating country that is different in many ways from the UK

David is Technical Director for Engineering Geology in Atkins' Epsom, UK office. He is a Chartered Geologist with more than 30 years' experience of civil engineering and geological projects in the UK and many countries overseas. David is currently a member of the Geological Society's Working Party on the Engineering Geology and Geotechnical Engineering of Hot Deserts

**Andrew Hart, Scott Wilson, will present: "Landslide Activity in the Himalayas - Resolving Technical and Cultural Differences"**

Landslide activity is a major issue affecting the Himalayan countries of Nepal and Bhutan. In recent years, both of these countries have seen a rapid expansion of their rural road networks, and therefore an increasing exposure to the issue. This presentation will describe the work of the Landslide Risk Assessment Project that looked at the techniques being used by the local government geologists and engineers to map, assess and mitigate the landslide activity affecting these roads, as well as the socio-economic impact of landslide activity on the remote and rural areas of the region. The project involved working in a fascinating region of the world and balancing some very different technical and cultural approaches to dealing with the landslide problems being faced.

Dr Andrew Hart is a Chartered Geologist with over 12 years research and consultancy experience, most of which has involved working in areas of remote and hazardous terrain. Andrew has worked on projects ranging from oil and gas pipelines, heavy haul railways, stabilisation of Victorian stone mines, geohazard management and landslide hazard and risk mapping. Most recently Andrew has been contributing to a number of technical review reports looking at how satellite imagery and GIS technology can be used in the design, construction and maintenance of both low cost mountain roads and oil and gas pipelines.



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## **ENGINEERING GEOLOGY AND EXPERIENCE IN THE EAST LONDON AND THE THAMES GATEWAY AREA**

Tea/Coffee will be served in the lower library from 5.30pm.

### **REGISTRATION INFORMATION OR QUERIES**

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

#### **Convenor:**

Anna Pearson – Arup, 13 Fitzroy Street, London, W1T 4BQ. Tel: 020 7755 3981. Email: [anna.pearson@arup.com](mailto:anna.pearson@arup.com)