



Geological Society Bicentenary Conference



QE II Centre, Westminster, London, 10-12 September 2007

www.geolsoc.org.uk/bicentenaryconference

Call for Abstracts

Poster themes convened by the Hydrogeological Group

Abstracts (< 350 words) should be submitted by **15 June 2007** via the above conference website for the topics below. Abstract acceptance will be within 2-4 weeks of receipt to facilitate early bird conference registration by 31 May; please consult poster session convenors for queries. See website for full programme and registration.

Invited Speakers (on groundwater resources and quality):

Douglas Mackay (Univ. California) *Groundwater impacts of new fuel formulations*; **Bernard Kueper** (Queen's Univ. Canada) *Subsurface behaviour and remediation of dense non-aqueous phase liquids*; **Paul Younger** (Univ. Newcastle) *Mine water management: hydrogeological analysis and geochemical remediation*; **Tony Appelo** (The Netherlands) *Transport phenomena in hydrogeochemistry*; **Neil Chapman** (ITC, Switzerland) *Geological disposal of radioactive wastes - what are the issues for the UK?*; **Ghislain de Marsily** (Univ. Paris VI, France) *Understanding aquifer heterogeneity: a challenge*; **David Lerner** (Univ. Sheffield) *Integrating groundwater into catchment management*; **Mike Edmunds** (Oxford Univ.) *Renewable and non-renewable groundwater - challenges for a water-thirsty world*; **Stephen Foster** (IAH President) *Groundwater – Trying to harmonise resource sustainability with economic development*; **Bob Harris**, (Environment Agency) *Closing remarks*

Hydrogeological Poster themes – Call deadline 15 June 2007

DNAPLs: a persistent groundwater challenge

The persistent presence of DNAPLs (dense non aqueous phase liquids) in groundwater remains of significant concern. Research and case study posters are invited on all DNAPL topics including fate and transport, property assessment, site investigation and risk/regulatory assessment, model simulation and source and plume remediation including natural attenuation.

Conv: Michael Rivett (U. Birmingham) M.O.Rivett@bham.ac.uk Gary Wealthall (BGS) gpwe@bgs.ac.uk

Groundwater quality

Groundwater quality: Groundwater quality may be compromised by a wide range of anthropogenic contaminants – inorganic, organic, and pathogenic - as well as by naturally-occurring variations in groundwater chemistry. Posters are invited on research and case studies of groundwater contaminants and groundwater quality variations, from laboratory-scale experiments to catchment-scale monitoring and management.

Conv: Willy Burgess (UCL) william.burgess@ucl.ac.uk Nick Walton (Portsmouth) Nick.Walton@port.ac.uk

Groundwater: Climate change implications

Climate change this century will affect the quantity, distribution and quality of fresh groundwater resources. Posters are invited that assess the scale of climate change and human-induced impacts on groundwater and also look ahead at adaptation and mitigation responses for groundwater-dependent water supply schemes and ecosystems.

Conv: Kevin Hiscock (UEA) k.hiscock@uea.ac.uk Ian Holman (Cranfield U.) i.holman@cranfield.ac.uk

Groundwater, international development and poverty reduction

The development of groundwater, both for safe drinking water supplies and productive uses, is fundamental to reducing poverty across the developing world. Posters are invited on all aspects of hydrogeological research that are concerned with the sustainable development and management of groundwater for international development and poverty reduction across the poorest countries of the world.

Conv: Alan MacDonald (BGS) amm@bgs.ac.uk

Groundwater Investigation Methods

The need for high resolution data and improvements in analytical capabilities continue to push the boundaries of hydrogeological investigations and expand the tool-box available to groundwater scientists. Posters on hydrogeochemical sampling and analysis and geophysical characterisation are particularly encouraged. Authors may choose to focus on a particular groundwater investigation technique or show the application of a method as part of a case study. Submissions from academia, industry and regulators are all welcomed.

Conv: Daren Goody (BGS) dcg@bgs.ac.uk

Advances in modelling of flow and transport in the subsurface

Advances in the understanding of fluid processes in heterogeneous porous media are inevitably coupled with model development and application. We therefore encourage posters describing both novel modelling techniques and new applications of existing models. Posters outlining any aspect of the wide spectrum that modelling encompasses will be welcomed, including advances in conceptual, analytical, numerical and stochastic methods.

Conv: Nick Woodman (Southampton University) N.D.Woodman@soton.ac.uk