

## Call for Paper and Poster Abstracts



### Water Futures

The Geological Society, Burlington House, London

6-7 March 2012

The interdependency between groundwater behaviour and a broad spectrum of earth system processes of significance to environmental scientists is throwing a spotlight on the interfaces between hydrogeology and its neighbouring Earth Science disciplines. Concurrently, pressures on groundwater are ever increasing in terms of resources and quality, particularly from population increases and demographics, new technologies, pollutants and climate change. This two day conference will follow four broad themes which aim to address interactions and influences between groundwater and the wider Earth Science environment:

- Groundwater and Energy
- Groundwater and Climate
- Groundwater and Basin Scale Processes
- Future Directions and Societal Challenges

#### Keynote speakers:

John Gluyas, *Durham University, UK* (Groundwater and Energy)

Reed Maxwell, *Colorado School of Mines, USA* (Groundwater and Climate)

Grant Garven, *Tufts University, USA* (Groundwater and Basin Scale Processes)

Johannes Grath, *Austrian Environment Agency, Austria* (Future Directions and Societal Challenges)

#### Invited speakers:

Richard Davis, *Durham University, UK* (Groundwater and Energy)

Peter Richter, *Schlumberger, UK* (Groundwater and Energy)

Jon Finch, *Centre of Ecology and Hydrology, UK* (Groundwater and Energy)

Kevin Hiscock, *UEA, 2011 Whitaker Medallist, UK* (Groundwater and Climate)

Holly Michael, *University of Delaware, US* (Groundwater and Basin Scale Processes)

Jacob Tompkins, *Waterwise, UK* (Future Directions and Societal Challenges)

Rob Ward, *British Geological Survey, UK* (Future Directions and Societal Challenges)

Ian Barker, *Environment Agency, UK* (Future Directions and Societal Challenges)

Paper and poster abstracts are invited for the following sessions which are, but not limited to:

#### **Groundwater and Energy:**

(Co-convened by Daren Goddy [dcg@bgs.ac.uk](mailto:dcg@bgs.ac.uk) and Jonathan Craig [jonathan.craig@eni.com](mailto:jonathan.craig@eni.com))

- the water industry carbon footprint and groundwater as a means of footprint reduction
- implications of carbon-based energy on groundwater systems, resources and quality
- geothermal energy
- carbon capture and storage – issues of hydrogeological regime, and/or rock-fluid interaction
- groundwater demand of energy crops
- low permeability ‘diffusive’ environments

### ***Groundwater and climate***

(Co-convened by Adrian Butler [a.butler@imperial.ac.uk](mailto:a.butler@imperial.ac.uk) and John Bloomfield [jpb@bgs.ac.uk](mailto:jpb@bgs.ac.uk))

- Outputs from the Changing Water Cycle programme.
- Implications of seasonality/extremes for groundwater resources
- Quaternary climate/environmental changes – links with ‘fossil’ groundwater and quality stratification
- Groundwater as a component of future climate etc model predictions
- Groundwater floods, groundwater droughts

### ***Groundwater and Basin-Scale Processes***

(Co-convened by William Burgess [william.burgess@ucl.ac.uk](mailto:william.burgess@ucl.ac.uk) and Steve Roberts [sr1@noc.soton.ac.uk](mailto:sr1@noc.soton.ac.uk))

- ‘Basin-scale’ groundwater contaminants – As, F
- Groundwater solute fluxes (basin scale / weathering fluxes)
- Mineralising fluids
- Basin-scale modelling representation
- Transboundary aquifers and (international) optimisation / conflicts
- Hypersaline and thermal environments

### ***Future Directions and Societal Challenges***

(Co-convened by Nicky Robinson [jnickyrobinson@aol.com](mailto:jnickyrobinson@aol.com) and Stuart Kirk [Stuart.Kirk@defra.gsi.gov.uk](mailto:Stuart.Kirk@defra.gsi.gov.uk))

- Presentation by invitation only but abstracts for posters are requested.

Please email your 250 word abstract to Steve Whalley by 6 January 2012. A call for registrations will go out in early 2012. For further information about the conference, or to submit a paper/ poster abstract, please contact:

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