



## The Transport and Fate of Groundwater Contaminants Burlington House, 9<sup>th</sup> February 2011

### PROVISIONAL PROGRAMME

09:30 Registration and Coffee

#### **Morning session – From Experiments to the Field** (*Chair Daren Goody*)

10:15 Welcome

10:20 Multiple-tracer experiments in saturated municipal solid waste – Nick Woodman (*University of Southampton*)

10:40 Assessing the natural attenuation capacity of the hyporheic zone of a metal mining impacted catchment in northern England – Barbara Palumbo-Roe (*BGS*)

11:00 Manufactured nanoparticles as groundwater pollutants – Martin Smith (*University of Birmingham*)

11:20-11:50 Coffee Break

11:50 Natural attenuation of anthropogenic groundwater pollution in a peri-urban floodplain setting – Kate Griffiths (*BGS*)

12:10 The geochemical controls on anaerobic microbial ecology in a phenol-contaminated sandstone aquifer – Kieran Baker (*University of Leeds*)

12:30 The influence of seasonal groundwater table fluctuations on LNAPL distribution in a fractured aquifer - implications for mass flux estimation and remediation – Jonathan Parry (*SLR Consulting Ltd.*)

12:50-14:00 Lunch and AGM of Hydrogeology Group of Geol Soc

#### **Afternoon session – From Models to Management** (*Chair Simon Bottrell*)

14:00 Impact of climate change on the aquifer recharge and the groundwater quality of the Patcham Basin – Salima Baraka-Lokmane (*University of Brighton*)

14:20 Successful remediation of a leachate plume from a former aluminium waste disposal site supported by contaminant fate and transport modeling – Mike Carey (*Entec UK Ltd.*)

14:40 Catchment-scale transport and attenuation of nitrogen and phosphorus along heterogeneous groundwater flow pathways in Ireland – Ciara Fitzpatrick (*Queens University Belfast*)

15:00-15:30 Tea Break

15:30 Nitrate modelling across the Wessex Basin to identify measures to achieve Water Framework Directive Drivers. Case study of modelling water quality at Cholderton water supply candidate water protection zone – Giles Bryan (*Environment Agency*)

15:50 Operating Windows for Monitored Natural Attenuation – Duncan Scott (*Land Quality Management Ltd.*)

16:10 The role of catchment management in managing agrochemical pollution in the chalk – Maria Andersson (*Mott MacDonald*)

16:30 Assessing the value of collating contaminant transport parameters – Steve Buss (*ESI*)

16:50 Meeting Close and Wine reception