

Final Programme, William Smith meeting, 21 – 23 September 2009

Monday 21 September		Speaker	Title
08:30	Registration & coffee		
Chair	Éva Valsami-Jones		
09:30	Welcome & Introduction	Éva Valsami-Jones Natural History Museum	
09:40	Keynote	Paul Nathanail University of Nottingham & Land Quality Management Ltd	The role of regulatory science human health risk assessment of potentially contaminated land
10:20		Anna Bogush Siberian Branch, Russian Academy of Sciences	Natural and modified materials for mine waste treatment
10:40		Brigid O'Dochartaigh British Geological Survey	Groundwater And Soil Pollutants (GRASP): a screening tool applying soil geochemical data to assess threats to shallow groundwater quality in Glasgow, UK.
11:00	Tea/Coffee & posters		
Chair	Karen Hudson-Edwards		
11:30		Kevin Leahy Environmental Resources Management Ltd	Environmental Risk to Groundwater from a Long-Lived Contaminant Source Area in the Context of Monitored Natural Attenuation
11:50		Steve Robertson Durham University	ROBUST - Regeneration Of Brownfield Using Sustainable Technologies
12:10		Joanna Wragg British Geological Survey	The fate of diffuse Pb pollution in urban soil; a case study from Sheffield, UK

12:30		Amy Barsby Queen's University, Belfast	Trace Element Abundance and Human Epidemiology in Northern Ireland - the Tellus Case Study
12:50	Lunch		
Chair	Karen Hudson-Edwards		
14:00	Keynote	Philippe Van Cappellen Georgia Institute of Technology	Representing geomicrobial processes in environmental reactive transport models
14:40		Doug Stewart University of Leeds	Microbially mediated chromate reduction in hyperalkaline conditions
Chair	Éva Valsami-Jones		
15:00		Karen Hudson-Edwards University College London	Interaction of Flat and Stepped Jarosite Surfaces with Cd, Cu and Zn: A Computer Simulation Study
15:20	Tea/Coffee & posters		
16:00	William Smith lecture	Michael Hochella Virginia Tech	New Hidden Earth: Nanoparticles, and their Global Role in the Environment, Pollution, and Human Health
17:00	Conclusions, general discussion		
17:30	End of discussion		
18:30	Conference dinner, ends 20:30		

Tuesday 22 September		Speaker	Title
Chair	William Burgess		
09:00	Keynote	David Polya University of Manchester	Probabilistic risk assessment of groundwater arsenic in southern Asia – key uncertainties

09:40		Dragos Zaharescu Vigo University	Natural enrichment with arsenic in a high mountain cirque in the Pyrenees
Chair	David Polya		
10:00		William Burgess University College London	Deep 'arsenic-safe' groundwater in southern Bangladesh: vulnerability to arsenic invasion
10:20		David Alderton Royal Holloway (University of London)	Arsenic and antimony pollution from metal mining activities in FYR Macedonia
10:40		Bethan Hallett University College London	The mineralogy of fluorine in Granitic gneissic aquifers of Andhra Pradesh, India
11:00	Tea/Coffee & posters		
11:30		Ciara Fitzpatrick University College London	Catchment Scale Bromate Contamination of the Hertfordshire Chalk Aquifer
11:50		Sally Homoncik Mountain Environments	Manganese concentrations in Scottish groundwater
12:10	Public lecture	Patricia Bobeck Geotechnical Translation, Austin Texas	The Public Fountains of the City of Dijon
12:50	Lunch		
Chair	David Polya		
14:00	Keynote	Mike Edmunds Oxford University	Groundwater -the sweet water of life
14:40		Cathy Scheib British Geological Survey	Natural and anthropogenic radioactivity of Northern Ireland; variation in gamma dose rate
15:00	tea & posters		

15:40	Keynote	Jane Plant Imperial College London	The Anthropocene and Chemicals in the Environment
16:40	Conclusions, general discussion		
17:00	End of discussion		
17:00	Wine reception, ends 18:30		

Wednesday 23 September		Speaker	Title
Chair	Vala Ragnarsdottir		
09:00	Keynote	Tim Jones Cardiff University	Assessing the bioreactivity of respirable volcanic ash by adsorption of biological macromolecules: a new geo-biology method
09:40		Lata Koshy Cardiff University	Geo-genomics of air and water pollution from landfills
10:00		Ann Power Edge Hill University	Historical trends of atmospheric particulate pollution deposition in northwest England: 200-year pollution archives reconstructed from urban ponds
10:20		Ana Valdés Université Paul Sabatier-Toulouse	Characterisation of the breathable particulate material present in the air of Santiago (Chile) by analyzing its mineralogical and geochemical components: impact on public health
10:40		Sylvaine Goix Université de Toulouse	Trace Metals Atmospheric Survey in the Mining Region of the Bolivian Altiplano
11:00	Tea/Coffee & posters		

11:30		Jennifer Le Blond University of Cambridge	Crystalline silica exposure during the burning of silica-rich biomass
11:50		Claire Horwell Durham University	Cristobalite in a rhyolitic lava dome: Evolution of ash hazard at Chaitén volcano
12:10		Mark Cave British Geological Survey	Assessment of the soil contribution to atmospheric particulates in the UK - Source apportionment monitoring over days years and decades
12:30		David Pyle University of Oxford	Mercury, metal and particulate emissions from volcanoes
12:50	Lunch		
Chair	Jane Plant		
14:00	Keynote	Jamie Lead University of Birmingham	Environmental behaviour and effects of manufactured nanoparticles
14:40		Deborah Berhanu Natural History Museum	Adapting characterisation and cell culture studies for nanotoxicity: The case of carbon nanotubes
15:00	Tea/Coffee & posters		
15:30		Pakatip Ruenraroengsak Imperial College London	Impact of surface chemistry and size on the reactivity and toxicity of latex nanoparticles on human lung alveolar epithelium in vitro
16:10		Andrew Thorley Imperial College London	The mechanisms of uptake of nanoparticles by human lung alveolar epithelium in vitro critically depends on surface chemistry and nano-size
16:30		Birgit Gaiser Napier University	Interspecies assessment reveals patterns of toxicity and uptake of Ag and CeO ₂ nanoparticles

16:50		Vala Ragnarsdottir University of Iceland	Earth Sciences Education for the 21st Century
17:10	Conclusions, general discussion		
17:30	Closing remarks, programme end		