



The
Geological
Society

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Frontiers Meeting 2012: Nanogeoscience: A New Frontier in Science and Technology for Earth and Environmental Systems

10 December 2012

Programme

09.45	Registration & coffee
10.15	Introduction
10.20	'Why Nanogeoscience?' David Vaughan, <i>University of Manchester</i>
10.45	The Biogeochemistry of Coal Mine Drainage: Microbes, Green Rust and the Factors Controlling Iron Mineralogy in Coal Mine Drainage Nia Blackwell, <i>Institute of Geography and Earth Sciences, Aberystwyth</i>
11.05	Tea & coffee
11.25	Characterisation of Nanoparticles and Associated Metals in Landfill Leachates Yasmin Labibi, <i>University of Southampton</i>
11.45	Maturation and Ageing in Biominerals with Application to Enamel Maturation Anastasios Papadimitriou, <i>University of Birmingham</i>
12.05	Reactivity and Toxicity of Engineered Nanoparticles Éva Valsami-Jones, <i>University of Birmingham</i>
12.35	Lunch (provided for all delegates)
13.35	Bioavailability and Persistence of Three Isotopically Labelled Forms of ⁶⁸Zn in the Estuarine Snail, <i>Peringia Ulvae</i> Adam Laycock, <i>Imperial College London</i>
13.55	Modelling the Structure, Transport and Reactivity of Metallic Nanoparticles – Towards Modelling Nanotoxicity of Silver Nanoparticles Paul Martin, <i>University of Birmingham</i>
14.15	Tracing Bioavailability of ZnO Nanoparticles Using Stable Isotope Labeling Fiona Larner, <i>Imperial College, London</i>
14.35	Characterisation and Applications of Bio-geo-nanoparticles Victoria Coker, <i>University of Manchester</i>

15.05	Nanoparticle Bioremediation Rebecca Skuce, <i>University of Glasgow</i>
15.25	Tea & coffee
15.45	Biogenic Reactive Nanominerals for the Remediation of Contaminated Soils and Waters Mathew Watts, <i>Williamson Research Centre, University of Manchester</i>
16.05	Soil Particle Wettability: Fundamentals and Applications in Engineering Geoscience Sérgio Lourenço, <i>Cardiff University</i>
16.25	Iron-Rich Nanoparticle Formation and Importance for Trace Metal Transport in Ground Water and Arctic Rivers Björn Stolpe, <i>University of Birmingham</i>
16.45	Discussion
17.15	Close of day and drinks reception