

## 2013 Geochemistry Group Research in Progress meeting Oral Program

**Thursday 14 March 2013 - Berrill Lecture Theatre, The Open University, Milton Keynes**

8.30am 9.25am	Registration, poster set-up – tea and coffee on arrival <b>Welcome address (Mahesh Anand, Chair, GG)</b>	
9.30am	<b>Keynote: The Signature of Mush Disaggregation in Icelandic Basalts</b>	<b>John Maclennan-University of Cambridge</b>
10.00am	Unmasking the magmatic signature of the mid Cambrian Kalkarindji CFBP, Australia: The effects of long-term weathering	Peter Marshall* - The Open University
10.15am	Geochemistry of Quaternary magmatism in the Greater Caucasus	Samuel Bewick* - The Open University
10.30am	Subduction fluids present within the Western Antarctica Rift System	Michael Ward Broadley* - The University of Manchester
10.45am	The role of monazite geochemistry in understanding rates of metamorphic processes	Catherine Mottram* - The Open University
11.00am	When is a Date not an Age? An $^{40}\text{Ar}/^{39}\text{Ar}$ Investigation of a UHP Metamorphic cycle	Christopher McDonald* - The Open University
11.15am	Coffee and cakes with Posters	
11.35am	<b>Keynote: Contrasted Fe isotope signatures in tropical and boreal rivers</b>	<b>Franck Poitrasson, LMTG, Toulouse</b>
12.05pm	Seasonal elemental variation in tropical rivers, Goa, India	Chris Hibbert* - Birkbeck University of London
12.20pm	Methane fluxes from the Arctic seafloor towards the atmosphere	Carolyn Graves* - University of Southampton
12.35pm	Tracing of isotopically labelled nanomaterials	Adam Laycock* - Imperial College
12.50pm	Chemical control of cosmogenic $^3\text{He}$ production rates in minerals	Ana Carracedo Plumed* - SUERC, University of Glasgow
1.05pm – 1.50pm	Lunch and Posters (Geochemistry Group AGM at 1.50 pm)	
2.00pm	<b>Keynote: From hard rock to heavy metal: Fe stable isotope constraints on partial melting processes and the source regions of oceanic basalts</b>	<b>Helen Williams - University of Durham</b>
2.30pm	Study of Rims Around CAIs and Oxygen Isotopic Homogeneity in the Early Solar System	Jean –David Bodénan* - The Open University
2.45 pm	High-Temperature Release of Carbon and Nitrogen in the Angrites	Feargus Abernethy* - The Open University
3.00 pm	The lunar volatile budget	Nicola Potts* - The Open University
3.15 pm	From clays to carbonates: low temperature alteration in ALH84001 and early Mars	Mohit Melwani Daswani* - The Open University
3.30 pm	Coffee and Posters	
3.55 pm	Neodymium isotopic composition and concentration in equatorial to North Atlantic seawater	Myriam Lambelet* - Imperial College London
4.10 pm	The Norwegian Sea during the last glacial cycle: insights from radiogenic isotopes	Torben Struve* - Imperial College London
4.25 pm	Insights into improved provenance tracing using Pb isotopic ratios of aerosols into the South Atlantic Ocean	Roulin Khondoker* - Imperial College London
4.40 pm	Constructing a Neoproterozoic Seawater Strontium Isotope Curve	Ying Zhou* - University College London
4.55 pm	<b>Keynote: New insights on carbonate dissolution during the PETM</b>	<b>Chris Pearce, University of Southampton</b>
5.25 pm 6.00 –7.00 pm	Posters Wine Reception	

## GGRiP 2013

## Posters

No.	Presenter	Title
1	Jessica Barnes* - The Open University	The Water Content of the Lunar Magma Ocean
2	Luke Bridgestock* - Imperial College London	Understanding the biogeochemical cycle of Pb in the Equatorial Atlantic
3	Catherine Cole* - University of Southampton	Are hydrothermal plumes a source of rare earth elements to the wider ocean bed?
4	Liz Cramer* - The Open University	Understanding the effects of fluid/basalt chemical interaction on the $^{40}\text{Ar}/^{39}\text{Ar}$ dating system: A geochemical and petrographic study of Faroe Islands basalts
5	Natalie Curran* - University of Manchester	Cosmic ray exposure record in lunar meteorites
6	Sophie Dixon* - The Open University	Ocean redox across the PETM: Stable Cr isotopes in planktic foraminifera
7	David Evans* - Royal Holloway University of London	The Cenozoic evolution of seawater alkaline earth chemistry from cultured and fossil foraminifera
8	Anne Forbes – The Open University	Compositionally distinct melt bands related to fracture formation in entablature-bearing basaltic lava flows
9	Thomas Hopkinson* – The Open University	The effects of crustal melting on the tectonic evolution of mountain belts
10	Hannah Johnson* – Royal Holloway University of London	Complex High Anorthite Plagioclase Phenocrysts from Lesser Antilles Lavas
11	Lisa Jepson* - University of Manchester	MORB-like halogen signature in basalts of the Azores
12	Luke Faggetter – University of Leeds	The Cambrian Kalkarindji Flood Basalt Province: Exploratory records of carbon cycle perturbation
13	James Mortimer* - The Open University	Using Stable Isotope Geochemistry to Investigate the Source(s) of Volatiles in the Lunar Regolith
14	Katy Murphy* - Imperial College London	Understanding Neogene to present Atlantic Meridional Overturning Circulation
15	Michael Norry – University of Leicester	Magmatic processes deduced from ICPMS analysis of well cuttings, Baffin Bay Tertiary: Mantle re-melting and assimilative fractional crystallization of picritic magma.
16	Qiong Li – Royal Holloway University of London	Rapid high-precision IsoProbe MC- ICPMS analysis of Ca isotope ratios
17	Rhian Rees-Owen* - University of Leeds	The last forests on Antarctica: Neogene (~12 Ma) fossil plants and wood from Antarctica
18	Kate Salmon* - The Open University	Environmental controls on seasonal changes in planktonic foraminiferal abundance, shell mass and geochemistry
19	Steph Walker* - Royal Holloway University of London	Rb-Sr mineral age constraints on the Caledonides of Shetland
20	Kathryn Street* - University of Manchester	The Timing of Volcano-Ice Interactions and Deglaciation in Iceland
21	Rosalie Tostevin* - University College London	A New Method for Rare Earth Elements and Yttrium in Carbonates
22	Beth Wilkes* - Royal Holloway University of London	Foraging to farming, a sub-seasonal isotopic study of human tooth enamel from Neolithic Mehrgarh
23	Camilla Maya Wilkinson* - The Open University	Magma chambers, crystal residence time and inherited Ar
24	David Wilson – Imperial College London	Reactivity of REE carriers in deep sea sediments and implications for palaeoclimate studies

\* indicate student presenters