

## Conference Convenors:-

John Wheeler (Liverpool University); Jon Davidson (Durham University); Kathryn Goodenough (British Geological Survey) & Jane Plant (Imperial College London)

## Programme

Thursday 28 May 2009	
09:30	<b>Registration + coffee</b>
10.15	<b>Welcome</b>
<b>SESSION THEME: Crustal strength and structure</b>	
10.20	<b>R. Sibson (Otago University) - Keynote</b> Orogenic Lode Gold systems - Past and present
11.00	<b>K. McCaffrey (Durham University)</b> <b>R. Holdsworth (Durham University) &amp; R. Wilson (Durham University/BP)</b> Basement inheritance controls on continental margin architecture: steep basement fabrics and segmented margins
11.20	<b>M. Searle (University of Oxford)</b> Thermal & structural evolution of the Himalayan & Karakoram continental crust
11.40	<b>J. Jackson (Bullard Laboratories)</b> <b>D. McKenzie &amp; K. Priestley (Bullard Laboratories)</b> New views on the structure and rheology of the lithosphere
<b>SESSION THEME: Gain/loss of continental crust and mantle, and vertical movements</b>	
12.00	<b>A. Miskovic (Massachusetts Institute of Technology)</b> Crustal growth along the non-collisional Western Amazonian cratonic margin
12.20	<b>Lunch &amp; posters (Lunch is not provided)</b>
13.40	<b>R. Rudnick (Maryland University) - Keynote</b> Cratons and Continental Evolution: perspectives from Tanzania and North China
14.20	<b>S. Holford (University of Adelaide)</b> <b>R. Hillis (University of Adelaide); P. Green &amp; I. Duffy (Geotrack International Pty Ltd); J. Turner (University of Birmingham) &amp; M. Stoker (British Geological Survey)</b> Distribution, chronology and causes of Mesozoic-Cenozoic uplift of the British Isles
14.40	<b>P. Kokelaar (University of Liverpool)</b> <b>J. Neilson (University of Liverpool/Dana Petroleum) &amp; Q. Crowley (NERC/Trinity College Dublin)</b> Timing, relations and cause of plutonic and volcanic activity of the Siluro-Devonian post-collision magmatic episode in the Grampian Terrane, Scotland
15.00	<b>K. Goodenough (British Geological Survey)</b> <b>B. Thomas (British Geological Survey); B. De Waele (British Geological Survey /SRK Consulting) &amp; J. Jacobs (University of Bergen)</b> Lithospheric controls on emplacement of post-collisional granitoids: examples from the Pan-African and Caledonian orogens

15.20	<b>J. Solano (Imperial College London)</b> <b>M. Jackson (Imperial College London); R. Sparks &amp; J. Blundy (University of Bristol) &amp; C. Annen (University of Geneva)</b> Impact of Melt Segregation on the Genesis of Intermediate and Silicic Magmas in Deep Crustal Hot Zones
15.40	<b>Tea/coffee</b>
<b>SESSION THEME: Evolution of N. Atlantic continents 1: Precambrian</b>	
16.20	<b>J. Myers</b> The nature and evolution of the Earth's oldest continental crust - interpreting the field evidence at Isua in Greenland
16.40	<b>P. Lancaster (University of Bristol)</b> <b>C. Storey &amp; C. Hawkesworth (University of Bristol)</b> Crustal evolution in NW Scotland through U-Pb, $\delta^{18}\text{O}$ and $\epsilon\text{Hf}$ in detrital zircon
17.00	<b>B. Windley (University of Leicester)</b> <b>K. Sajeew (Indian Institute of Sciences)</b> Archaean eclogites in the mainland Scourian, and Palaeoproterozoic garnet lherzolites and retrogressed eclogites at Rodal, Outer Hebrides, Scotland; implications for widespread subduction tectonics
17.20	<b>M. Whitehouse (Swedish Museum of Natural History)</b> <b>A. Kemp (James Cook University); B. Windley (University of Leicester) &amp; C. Kirkland (Swedish Museum of Natural History)</b> Evolution of a Palaeoproterozoic suture in the Lewisian of South Harris, Outer Hebrides: Zircon U-Pb and Hf-isotope constraints
17.40	<b>Janet Watson Lecture Theatre naming ceremony &amp; reception</b>

<b>Friday 29 May 2009</b>	
08:40	<b>Registration + coffee</b>
<b>SESSION THEME: Evolution of N. Atlantic continents 2: Phanerozoic</b>	
09.20	<b>V. Troll (Uppsala University)</b> <b>G. Nicoll &amp; F. Meade (Trinity College Dublin); R. Ellam (S.U.E.R.C); L. Font (Durham University); J. Gamble (University College Cork) &amp; C. Donaldson (University of St. Andrews)</b> The influence of crustal composition on magmatic differentiation across five major crustal terranes: the British-Irish Palaeocene Igneous Province revisited
<b>SESSION THEME: Tectonic and igneous aspects of continental growth</b>	
09.40	<b>B. Bley de Brito Neves (Universidade de Sao Paulo)</b> Neoproterozoic crustal evolution of the South American continent
10.00	<b>M. de Wit (Cape Town University) – Keynote</b> Construction and stabilization of Azanian [cratonic] crust between 3.0-3.6 Ga, and the effects of subsequent modifications
10.40	<b>Tea/coffee</b>

11.20	<b>A. Garde (Geological Survey of Denmark and Greenland)</b> <b>B. Windley (University of Leicester)</b> Arc-generated Blocks with Crustal Sections in the North Atlantic Craton of West Greenland: Crustal Growth in the Archean with Modern Analogues
11.40	<b>N. Roberts (University of Leicester)</b> Proterozoic crustal growth in Fennoscandia
12.00	<b>J. Davidson (Durham University)</b> <b>C. Macpherson (Durham University)</b> The role of amphibole in manufacturing continental crust
12.20	<b>T. Johnson (University of Mainz)</b> <b>R. White (University of Mainz) &amp; R. Powell (University of Melbourne)</b> Modelling the partial melting of metagreywacke and its potential importance to crustal differentiation
12.40	<b>Lunch &amp; posters (Lunch is not provided)</b>
<b>SESSION THEME: Secular change</b>	
14.00	<b>M. Sandiford (University of Melbourne) - Keynote</b> On the geochemical and geophysical structuring of the continents
14.30	<b>C. Hawkesworth (University of Bristol)</b> <b>C. Storey, H. Marschall &amp; B. Dhuime (University of Bristol) &amp; T. Kemp (James Cook University)</b> Granulites and Crustal Growth
14.50	<b>A. Scherstén (Lund University/Geological Survey of Denmark and Greenland)</b> <b>D.Frei (Geological Survey of Denmark and Greenland)</b> Zircon trace element evidence for Hadean infracrustal differentiation
15.10	<b>C. Storey (University of Bristol)</b> <b>C. Hawkesworth (University of Bristol) &amp; D. Condon (NERC)</b> New approaches to the development and growth of Hadean and Archaean crust
15.30	<b>Tea/coffee</b>
16.00	<b>M. Brown (University of Maryland)</b> Precambrian metamorphic conditions and patterns record secular change in mantle temperature, subduction style and the supercontinent cycle
16.20	<b>R. Fuck (Universidade de Brasília)</b> <b>M. Pimentel, E. Dantas, C. Oliveira, &amp; S. Junges (Universidade de Brasília) &amp; J. Laux (Serviço Geológico do Brasil)</b> Episodic crust forming events recorded in the Goiás magmatic arc, Central Brazil: Tectonic implications to neoproterozoic crustal growth
16.40	<b>H. Rollinson (University of Derby)</b> A new model for the coupled evolution of Archaean continental crust and sub-continental lithospheric mantle
17:00	<b>Discussion / End of conference</b>

**POSTER PROGRAMME**

**B. Belyatsky (VNIIOceangeologia, Russia)**

**N. Rodionov, A. Antonov & S. Sergeev (Centre of Isotopic Research, Russia)**

Early Archaean (3.6 Ga) Tectonothermal Event at the Enderby Land (East Antarctica): Zircon Study

**B. Dhuime (University of Bristol)**

**C. Hawkesworth & C. Storey (University of Bristol) & P. Cawood (University of Western Australia)**

Erosion processes as a key of the Continental Growth record: The case study of the Frankland River (SW Australia)

**H. Downes (Birbeck University of London)**

**A. Marwick (Birbeck University of London)**

The cratonic lower crust of Europe: A xenoliths-based review

**S. Mahajan (Guru Nanak Dev University)**

**B. Singh Bajwa, A. Kumar & S. Singh (Guru Nanak Dev University); V Walia (National Centre for Research on Earthquake Engineering) & T. Yung (National Centre for Research on Earthquake Engineering/ National Taiwan University)**

Soil gas method as a tool to delineate some active faults/lineaments in NW Himalayas, India

**J. Martin (Durham University)**

**R. Holdsworth & K. McCaffrey (Durham University); A. Conway (ConoccoPhillips UK Ltd) & M. Krabendam (British Geological Survey)**

Fracture Characterisation within the Lewisian Gneiss Complex, NW Scotland: Implications for petroleum potential in the Clair Field

**G. Nicoll (University of Edinburgh/Trinity College Dublin)**

**V. Troll (Uppsala University) & R. Ellam (S.U.E.R.C)**

Probing the depths; insights from the evolution of a large Palaeocene igneous complex on Ardnamurchan, NW Scotland

**M. Osmaston**

Exposure of 'hard rock': some new insights on epeirogenic mechanisms responsible for the often-differential uplift and exhumation of metamorphic crust

**H. Rollinson (University of Derby)**

**M. Whitehouse (Swedish Museum of Natural History)**

New constraints on the relative contributions of plume and arc magmas during late Archaean crustal growth

**M. Gutiérrez-Medina (University of Oviedo)**

Variscan transpressional superimposed folding during granodiorite emplacement in the central Pyrenees (Posets granodiorite), its role as a kinematic indicator

**P. Pavanetto (Università di Cagliari)**

**A. Funedda (Università di Cagliari) & C. Northrup, J. Crowley & M. Schmitz (Boise State University)**

New U/Pb zircon age from the Ordovician magmatism and new structural insights on the Variscan foreland of SW Sardinia