MDSG 2013 POSTERS

All posters are uniquely numbered, and displayed grouped according to the themes of the meeting. Posters are listed here according to first author. Full lists of authors can be found in the individual abstracts in this volume. Posters will be available to view in TA2 and TA3 (Bennett Building) from lunchtime on Thursday 3rd through to afternoon coffee on Friday 4th. The poster session, where all presenters are required to be by their posters in from 1630 to 1800 on Thursday 3rd.

**Theme: Crustal to Micro-Scale Controls on Gold Deposits**

1. **P Bird (Kingston University) STUDENT**
   ‘Orogenic Gold’ in the Kibali Granite-Greenstone Terrane, NE Democratic Republic of Congo

2. **K Rubingh (Laurentian University) STUDENT**
   A redefined structural architecture for the McLeod Road – Birch Lake thrust panel and implications for gold mineralisation at the New Britannia Mine, Snow Lake, Manitoba, Canada

3. **A Wong (University of Leicester) STUDENT**
   Characterisation of metabasite occurrences in the Dalradian stratigraphy of NE Northern Ireland: an assessment of PGE potential

4. **A Yuhei (Kyushu University) STUDENT**
   Field occurrence and lithology of 2.8 Ga Mistuhe hydrothermal section, Utik Lake greenstone belt, Canada

5. **M Williams (University of Leicester) STUDENT**
   Mineralogical and Fluid Characteristics of ‘Monakoff-Style’ Iron-Oxide-Copper-Gold (IOCG) Mineralisation in the Cloncurry Area, Queensland

6. **L Bland (University of Leicester) STUDENT**
   Developing Vectors to Mineralisation at Guelb Moghrein, Mauritania

7. **W Bond (University of Leicester) STUDENT**
   Constraining a mineralisation model of the SG Mining Tsagaan Chuluut gold deposit, Mongolia: A petrological and geostatistical study

8. **N Zimanovskaya (East Kazakhstan State Technical University) STUDENT**
   Gold in massive sulfide (base metal) and carbonaceous gold sulfide deposits in Eastern Kazakhstan

**Theme: Ni-Cu-PGE Deposits**

9. **H Carson (Laurentian University) STUDENT**
   Komatiite-Associated Cr and Ni-Cu-(PGE) Mineralisation in the Black Thor – Black Label Ultramafic Intrusion, McFaulds Lake Greenstone Belt, Canada

10. **A Beswick (Laurentian University)**
    Some applications of element ratio analysis to understanding the compositional variations displayed by a selection of Fe-Ni-Cu-PGE deposits at Sudbury, Ontario, Canada
11 S Graham (University of Leicester) STUDENT
Characterisation of the newly discovered Cu-Ni-PGE mineralisation at Sron Garbh, Stirlingshire, Scotland

12 H Hughes (Cardiff University) STUDENT
Platinum group element geochemistry of the Scourie Dykes: Parental melt sources and insights into the Lewisian subcontinental lithospheric mantle

13 R Knight (Cardiff University) STUDENT
A follow up study of platinum-group minerals from the Jinchuan intrusion, Gansu province, NW China

14 A Sutherland (University of Leicester) STUDENT
The nature and genesis of PGE-rich sulphide horizons on the farm War Springs, northern Bushveld Complex, South Africa

15 A de Joux (University of Edinburgh) STUDENT
The Comsos greenstone succession; Insights into an Archean volcanic arc, associated with komatiite-hosted nickel sulphide mineralisation, from U-Pb dating, volcanic stratigraphy and geochemistry

**THEME: PORPHYRY/EPITHERMAL SYSTEMS**

16 K Sullivan (University of Southampton) STUDENT
Investigating the Controls on Critical Metal Distribution in Porphyry Deposits

17 L Marushchenko (Moscow State University) STUDENT
Mineralogy of the Peschanka porphyry copper deposit, Chukchi Peninsula, Russia

18 S Fenton (University of Leicester) STUDENT
Geochemical and mineralogical characteristics of the West Kasulu Cu-Au porphyry prospect, Mongolia: links to Oyu Tolgoi?

19 A Dolgopolova (Natural History Museum)
Isotope systematics of the Hugo Dummett Cu-Au porphyry deposit

20 N Shatova (Russian Geological Research Institute) STUDENT
Petrography, Geochemistry, and Isotopic Dating of Eruptive Breccias of the Ryabinovoe Au-Cu Porphyry Deposit (South Yakutiya)

21 J Sidorina (Moscow State University) STUDENT
Epithermal Au-Ag mineralization of the Baimka Cu-Au trend

22 R Knott (University of Leicester) STUDENT
Petrological Controls on Intrusive Hosted Polymetallic Mineralisation, Tirua Hill, South New Georgia, Solomon Islands

**THEME: NEW DEVELOPMENTS AND DISCOVERIES IN EXPLORATION**

23 T Barrett (Ore Systems Consulting)
Volcanism and polymetallic mineralization at Parys Mountain, Wales
R Bartlett (University of Leicester)
Re-examination of the Broken Hill gossan: applications in exploration for Broken Hill-type mineralisation

R Bartlett (Barrick)
Geology and Mineralisation of the Chimiwungu Cu-Co-U Deposit

M Hutchinson (Trigon Geoservices) STUDENT
Diamond Exploration in West Greenland – The Qaamasoq Prospect

J Hughes (University of St Andrews) STUDENT
Aillikite – an unconventional diamond host rock and its importance in the ‘Greenland-Labrador-(Scotland?) Diamond province’

P Rourke (Midland Valley)
Digital Technology for Geological Mapping?

A Azelkhanov (East Kazakhstan State Technical University) STUDENT
Manrak bentonite used as mineral additive in breeding in East Kazakhstan

J Chapman (Geological Survey of Canada)
Anomalous zircon Ce\(^{4+}\)/Ce\(^{3+}\) ratios from the Jurassic of Yukon, Canada: implications for exploration applications of a zircon magma redox proxy

S Hönig (Masaryk University) STUDENT
Y and HREE residence in A-type granite - Garnet as a major Y and HREE carrier of the rock; An example from the layered anorogenic granite dykes, Cadomian Brno Batholith, Czech Republic

N Mondillo (Università Federico II, Napoli)
XRD and QEMSCAN® quantitative mineralogical evaluation of the karst bauxite deposits in Campania (Southern Italy)

R Norman (Natural History Museum) STUDENT
Nickel substitution in iron oxyhydroxides: Combining studies of natural and synthetic materials with implications for nickel extraction from goethite-rich laterites

C Pinto Ward (Imperial College) STUDENT
Mineralogy, geochemistry and small-scale atmospheric acid leach experiments of the Araguaia Nickel laterite deposit

A Connelly (University of Liverpool) STUDENT
Particles at Interfaces: the effects of shape and contact angle

C Spence-Jones (University of Leicester) STUDENT
Metallurgical investigation of the ore from Cononish gold deposit, Scotland

K Torremans (University Leuven)
Discrete element modelling experiments on the formation of layer-parallel veins in multilayer sequences

**THEME: APPLIED MINERALOGY**

**THEME: CRITICAL METALS**
A Abdurrahman (Camborne School of Mines) STUDENT
Geochemistry and Mineral Potential of Rare Metal Pegmatites in the Ijio Area, SW Nigeria

H Warman (University of Leicester) STUDENT
Distribution and mineralogy of REE-Zr-Nb-Ta mineralisation within pegmatite sheets at Citadellet, Kangerdlugssuaq Alkaline Intrusion, East Greenland.

B Thompson (Camborne School of Mines)
By-product potential of critical metals (Nb/Ta/REE/W) and Sn within IMERYS kaolin operational areas, St Austell Granite, Cornwall

N Hulsbosch (University Leuven)
Chemical fractionation of the Nb-Ta-Sn mineralised pegmatites of the Gatumba Area (Rwanda)

B Simons (Camborne School of Mines) STUDENT
Distribution of critical metals in biotite and Li mica granite from Cornwall, UK.

**THEME: ORE DEPOSIT RESEARCH IN PROGRESS**

F Marks (University College Dublin) STUDENT
Characterising a geochemical and isotopic halo of the Navan Zn-Pb Irish-type deposit

A Gorman (University of Leicester) STUDENT
Developing exploration models for copper-silver mineralisation in the Kalahari Copperbelt, Botswana – A. Mineralogy, geochemistry and structure.

R Williams (University of Brighton) STUDENT
Ore genetic –evolutionary features of karst-associated bauxites in the Parnassos-Ghiona Zone, Central Greece

A Dobrzanski (University of Liverpool) STUDENT
Initial results of a geochemical reconnaissance study of the Kirk Maughold Haematite Ore Deposit, Isle of Man, foundations of a modern ore deposit model

B Rakhibayeva (East Kazakhstan State Technical University) STUDENT
Ni-Co weathering crust of the Charsk zone in East Kazakhstan