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# Fermor Meeting 2017: Factory Earth

25-27 September 2017

## Programme

Monday 25 September 2017	
Evening Plenary	
17.30	Registration & tea & coffee (Main foyer and Lower Library)
18.00	<b>KEYNOTE: Porphyry-type ore deposits: origins, fertility indicators and exploration targeting</b> Jamie Wilkinson (Natural History Museum)
18.45 – 20.00	Drinks reception
Tuesday 26 September 2017	
08.30	Registration & tea & coffee (Main foyer and Lower Library)
09.00	Introduction
09.15	<b>KEYNOTE: Timescales of porphyry copper deposits: what they do tell us?</b> Massimo Chiaradia (University of Geneva, Switzerland)
10.00	<b>A detailed history of magmatism at Spence porphyry copper deposit, northern Chile: Integration of high-precision zircon geochronology and geochemistry</b> Ed Bunker (University of Bristol, UK)
10.20	<b>Linking fluid flux, fluid chemistry and degassing timescales of incrementally grown plutons: Implications for mineralization and volcanic degassing</b> Cyril Chelle-Michou (University of Bristol, UK)
10.40	Tea, coffee and refreshments and posters (Lower Library)
11.10	<b>KEYNOTE: Porphyry copper deposit formation in the context of transcrustal magma systems</b> John Blundy (University of Bristol, UK)
11.55	<b>The Fate of Cl During Differentiation of Arc Magmas: Implications for Ore Formation</b> Brian Tattich (University of Bristol, UK)
12.25	<b>Very Hydrous Magmas, Cryptic Water and Metal Transport Efficiency</b> Daniel Smith (University of Leicester, UK)
12.45	Lunch and posters (Lower Library)

14.15	<b>KEYNOTE: Metal volatility and environmental impacts: lessons from volcanic plume measurements</b> Tamsin Mather (University of Oxford, UK)
15.00	<b>Hydrothermal Alteration and Gold Mineralization in Talang Santo Deposit, Lampung Province, Indonesia</b> Yudai Hirano (Kyushu University, Japan & Institute Technology of Bandung, Indonesia )
15.20	<b>Mass wasting events and their impact on the formation and preservation of submarine magmatic–hydrothermal ore deposits</b> Jonathan Naden (British Geological Survey, UK)
15.40	<b>Tea, coffee and refreshments and posters (Lower Library)</b>
16.10	<b>Gold Mineralisation in the Southern Uplands – Longford Down Complex in Scotland and Ireland: Review and synthesis of the role of late-Caledonian magmatism</b> Samuel Rice (University of the West of Scotland, UK)
16.30	<b>Precambrian magmatic ore systems of the northern São Francisco Craton-Bahia-Brazil</b> Reinaldo Brito (Federal University of Bahia, Brazil)
16.50	<b>The Factors Influencing Sc Concentration in Nickel Laterite Deposit, Carrascal, Eastern Mindanao Island, Philippines</b> Yoki Kitayama (Kyushu University, Japan)
17.10- 20.00	<b>Drinks reception, hot fork buffet and posters (Lower Library)</b>
<b>Wednesday 27 September 2017</b>	
08.45	<b>Tea &amp; coffee (Main foyer and Lower Library)</b>
09.15	<b>KEYNOTE: The fate of sulfur in Arcs</b> John Mavrogenes (Australian National University, Australia)
10.00	<b>Sulfide saturation and breakdown during the 2014–2015 Holuhraun eruption, Iceland</b> Emma Liu (University of Cambridge, UK)
10.20	<b>Chalcogen Variations in Oceanic Plateau Basalts and the S Budget of their Associated Eruptions</b> Callum Reekie (University of Cambridge, UK)
10.40	<b>Tea, coffee and refreshments and posters (Lower Library)</b>
11.10	<b>The effect of titanite crystallisation on Eu and Ce anomalies in zircon and its implications for the assessment of porphyry Cu deposit fertility</b> Matthew Loader (Royal School of Mines, Imperial College London, UK & Natural History Museum)
11.40	<b>Applying the plagioclase discriminator to the GEOROC database of Japan</b> Matthew Hodgkinson (Natural History Museum)
12.00	<b>Fenite as an exploration indicator for rare earth and niobium mineralisation, and their importance within the magmatic story</b> Holly Elliott (University of Exeter, UK)
12.20	<b>Lunch and Posters (Lower Library)</b>
13.50	<b>KEYNOTE: Perspectives on the evolution of magma bodies from numerical modelling</b> Wim Degruyter (Cardiff University, UK)

14.35	<p><b>Insights into the Petrogenetic Evolution of Porphyry Systems using Integrated Zircon Trace Element and Melt Inclusion Analyses: A Case Study from the Maronia Magmatic Corridor, NE Greece</b></p> <p>Rebecca Perkins (University of Bristol, UK)</p>
14.55	<p><b>Tea, coffee and refreshments and posters (Lower Library)</b></p>
15.25	<p><b>The role of semi-metals (Se, Te, Bi) in precious metal transport within high temperature magmatic-hydrothermal systems.</b></p> <p>Katie McFall (Cardiff University, UK)</p>
15.55	<p><b>Cu-Au Mineralisation at the Grasberg Porphyry Deposit: Evidence of Mafic Signatures from Sulphides</b></p> <p>Katsuhito Terashima (Kyushu University, Japan)</p>
16.15	<p><b>Elvan (Rhyolite/ Quartz-Porphyry) Dykes of SW England: New Data On Their Relation to Sn-W Mineralisation and Interaction with Lamprophyres</b></p> <p>Charlie Moon (Moon Geology &amp; University of Exeter, UK)</p>
16.35	<p><b>End of conference</b></p>