

1st General Assembly SPP2238 – Dynamics of Ore Metal Enrichments

March 22 – 23, 2021

Zoom Meeting Program

5 min talks, 2 min discussion, 1 min screen share change

Monday, 22nd March 2021

CET	TITLE	PRESENTER
14:00	Introduction & Organizational remarks	Max Wilke & Maximilian Korges
14:20	Controls on the porphyry Cu-Au mineralizing potential of magmas in continental collision settings	Jia Chang
14:28	Rare-metal enrichment in carbonatite-bearing magmatic systems: Part A. Understanding magmatic evolution and enrichment processes in time by high-precision dating and inclusion studies	Marion Tichomirowa
14:36	Rare-metal enrichment in carbonatite-bearing magmatic systems: Part B. Understanding the role of fractional crystallization and liquid immiscibility by experimental simulations of silicate-carbonatite systems	Roman Botcharnikov
14:44	The fate of light and mobile elements in magmatic-hydrothermal greisen systems – a combined study of minerals, fluids and gases	Dino Leopardi
14:52	Thermodynamics and new equation of state for major and metal components in low-density aqueous fluids (THEOS)	Robert Peckmann
15:00	Transport and enrichment of W and Sn in melts and fluids at magmatic-hydrothermal stages: experimental approach and application to the Argemela district	Julie Michaud
15:08	Magmatic and hydrothermal prerequisites for porphyry-epithermal mineralisation in continental volcanic arcs, Thrace, NE Greece	Jan Falkenberg
15:16	Experimental studies on Mo mobility in high-pressure high-temperature fluids of complex compositions	Maria Kokh
15:24	The role of early cumulate formation for HFSE enrichment in foidolitic systems	Benjamin Walter

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15:32	Niobium, zirconium, titanium, and rare earth elements in alkaline silica-undersaturated magmas: experimental determination of solubility, complexation and phase relations and implications for the formation of magmatic Nb-Zr-REE deposits	Anna Nikolenko
15:40	Crossing the magmatic-hydrothermal interface within ore-forming systems with numerical models (CROWN)	Yulia Gruzdeva
15:48	Chlorine-bromine-iodine systematics as tracer of fluid and metal sources in Sn-W mineralized magmatic-hydrothermal systems	Mauro Bongiovanni
15:56	Dynamics of HFSE transfer in high level alkaline intrusions: the role of multiple melt - fluid – solid interaction	Sven Sindern
16:04	Break	
16:30	Plenary Talk	Jamie Wilkinson
17:15	Breakout Rooms & individual beverages	

Tuesday, 23rd March 2021

CET	TITLE	PRESENTER
09:30	Dynamics of Ore MEtal TRansport in Alkaline Porphyry systems (DOMETRAP)	Louis-Maxime Gautreau
09:38	Enrichment and transport of Cr in magmatic systems in the mantle and crust	Myriam Ruttmann
09:46	Transport and reactions of light elements (Li, B) in pegmatitic systems under thermal disequilibrium - implications for magmatic/hydrothermal ore deposits	Harald Behrens
09:54	Potential role of alkaline aqueous fluids in the formation of supergene and low-temperature hydrothermal mineralizations: experiments and natural analogues	Timmu Kreitsmann
10:02	Melts-Fluids-Models: keys to understanding ore-forming processes at the world-class Neves Corvo massive sulphide deposit, Iberian Pyrite Belt	Marta Codeco
10:10	Experimental determination of boron isotope fractionation between silicate melts and aqueous fluids, with application to understanding magmatic-hydrothermal ore genesis	Jakob Rauscher
10:18	Speciation of rare earth elements in hydrothermal systems	Sandro Jahn
10:26	Cassiterite solubility, tin partitioning, and the origin of porphyry tin deposits	Hans Keppler
10:34	Hydrothermal transport of Sn and W: in-situ constraints on fluid composition and metal complexes at the magmatic-hydrothermal transition	Marion Louvel
10:42	The inherent link between precipitation mechanism and mineralogy (invisible gold, cinnabar, stibnite and fluorite) in the Southern Kyrgyzstan Hg-Sb belt	Nicolas Meyer

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10:50	The Actively forming Sulfide mineralization in the Kolumbo volcano (ASK): source of metals in shallow marine magmatic-hydrothermal systems	Simon Hector
10:58	Identifying mantle sources and crust-mantle transport mechanisms for metal enrichment in subduction settings: Combined Se isotope and Se-Te systematics in Patagonian mantle xenoliths	Maria Varas-Reus
11:06	End/Break	
11:30	Panel meetings	