



**T25.5 - Critical metals - a global perspective** *Date* **Tuesday, 30 August 2016** *Time* **14:00** *to* **15:30**  
*Chair* *Room* **Westin - Victoria & Alfred**

Times		Paper # Title	Speaker
14:00	14:15	5268 Critical Metals and Materials, an African perspective.	Prof. Paul Nex
14:15	14:30	736 COLTAN in Colombia: strategic or conflict material?	Mr. Amed Bonilla
14:30	15:00	5236 The critical role of the Bushveld magmatic event for a modern society	Prof. Judith Kinnaird <span style="float: right;">Keynote</span>
15:00	15:15	4040 A review of scandium in carbonatites and alkaline igneous rocks of Africa.	Mr. Pete Siegfried
15:15	15:30	1585 An investigation of rare earth element enrichment processes associated with oxidative alteration of mafic alkaline magmas	Mr. Manoka Marageni

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16:00	16:15	2991 Potential rare earth element metallogenetic belts in Africa	Dr. Kathryn Goodenough
16:15	16:30	2714 Direct and indirect evidence for the composition of REE-mineralising fluids	Dr. Sam Broom-Fendley
16:30	16:45	4227 An in-situ chemical and isotopic investigation of carbonatitic apatite and the significance of rare earth element systematics	Dr. Wei Chen
16:45	17:00	5208 Peralkaline Igneous Complexes: The Frontier of REE Deposits	Dr. Emma Hunt
17:00	17:15	1630 Metamorphic control on REE redistribution in alkaline complexes – the Norra Kärr example	Mrs. Petya Atanasova
17:15	17:30	5640 Rediscovering the Panda Hill niobium-rich carbonatite in Tanzania	Mr. Neil Inwood

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	3799 Rare-element pegmatites of the Keivy-Kolmozero zone, NE Baltic shield: classification, age distribution, sources	Dr. Nikolay Kudryashov
	1677 Solubility of monazite and cheralite in highly fluxed peralkaline to peraluminous pegmatitic melts	Dr. Aurelien Eglinger
	614 The M'Fema and SM Carbonatites, Mozambique	Mr. Fabio Masotti
	1525 Ge distribution in supergene willemite (Zn <sub>2</sub> SiO <sub>4</sub> ): new insights from the Bou Arhous deposit (Morocco)	Dr. Flavien Choulet
	3231 Regularity of formation and criteria of forecasting rare metal deposits in East Kazakhstan	Professor Boris Dyachkov
	1991 EU Critical Raw Materials in the Czech Republic - Competence Centre for Effective and Ecological Mining of Mineral Resources (CEEMIR)	Dr. Petr Rambousek
	5059 The tailings pond of Cinovec deposit (Czech Republic) as non-traditional source of lithium	Mr. Jiri Malis
	3953 Massive Pollucite ((Cs,Na) <sub>2</sub> Al <sub>2</sub> Si <sub>4</sub> O <sub>12</sub> x H <sub>2</sub> O) – Processes of extreme Caesium Enrichment within LCT Pegmatites	MSc. Thomas Dittrich
	616 The Monapo Alkaline-Carbonatite Complex, Mozambique	Mr. Fabio Masotti

Times		Paper # Title	Speaker
08:00	08:15	3709 The Sn, Nb, Ta, F (REE, U, Th) world class deposit and the massive cryolite deposit associated with the albite-enriched facies of the Madeira A-type granite, Pitinga, Amazonas State, Brazil.	Dr. Artur Bastos Neto
08:15	08:30	2751 Baddeleyite from AR to PZ time in basite and carbonatite deposits from the Arctic region on the Fennoscandian Shield: U-Pb (ID-TIMS) and LA-ICP-MS data	Dr. Tamara Bayanova
08:30	08:45	2373 REE mineralization associated with Fe-Cu-(REE) deposits in the southwestern Yangtze Block, southern China and northern Vietnam	Prof. Mei Fu Zhou
08:45	09:00	574 REE mineralization in the Eastern Dharwar Craton at Mincheri, Raichur District, Karnataka, India	Mr. Laxminandan Deori
09:00	09:15	460 Geology and genesis of pegmatite-hosted REE–Y–Nb mineralization in Sausar Mobile Belt, Central India	Dr. Rajkumar Meshram
09:15	09:30	2107 Developments and trends in the availability of high-tech metals with a special focus on the German situation	Dr. Volker Steinbach
09:30	09:45	4283 Local controls on mineral transformations: replacement of (Y-Nb-REE)-rich titanite by rutile	Dr. Barbara Etschmann
09:45	10:00	3187 TECHNIQUES USED TO DETERMINE RARE EARTH ELEMENTS (REE'S) IN COAL FLY ASH GENERATED FROM THREE DIFFERENT POWER STATIONS IN SOUTH AFRICA.	Mr. Arnold Riptumelo Matiane

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	2014 Magmatic-hydrothermal processes forming the REE mineralisation in the Loolekop carbonatite of the Phalaborwa Complex, South Africa	Mr. R. Johannes Giebel
	210 The Sc-Nb-TR Tomtor deposit and its genesis	Dr. Elena N. Levchenko
	4110 REE fractionation and element transfer within weathering profiles in a mild and humid climate: alteration zones of the Fen-Carbonatite Complex, Norway	Prof. Uwe Altenberger