



T17.1 - Mineral Exploration	<i>Date</i> Monday, 29 August 2016	<i>Time</i> 14:00 to 15:30
	<i>Chair</i>	<i>Room</i> Auditorium 2

Times		Paper # Title	Speaker
14:00	14:15	5179 Brownfield Exploration as a Strategic Initiative to Reviving Non-Operational Mines in the Central Rand	Mr. Manie Swart
14:15	14:30	230 Implications of New Geophysical and Lead Isotopic Data on Localization of Giant Zinc Sulphide Body at Agucha in Western India	Dr. PRAKASH RAMCHAND GOLANI
14:30	14:45	433 Fluid inclusion microthermometry and sulphur isotopic studies of the base metal mineralization in Minjhari area, Western Bastar Craton, India	Dr. Velayutham Kumaravel
14:45	15:00	1507 Carbonate alteration as identified by staining as a vector to orogenic gold mineralization	Dr. Johannes Henckel
15:00	15:15	3478 The importance of Dwyka Group glaciation with regards to alluvial diamond transportation, concentration and entrapment in South Africa.	Mr. Pieter Bosch

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16:00	16:15	5211 The Orange and Riet River alluvial diamond deposits in the vicinity of Douglas, Northern Cape Province: geology, evaluation, and exploitation of unique South African large diamond producing deposits	Mr Lyndon De Meillon
16:15	16:30	5342 Bisie - World's Largest and Richest Undeveloped Tin Deposit	Ms. Helen Pein
16:30	16:45	4455 Chemostratigraphy and geochemical vectoring at the Rapla prospect, Rathdowney Trend, Ireland	Mr. Oakley Turner
16:45	17:00	4959 The Groenfontein and Zaaipplaats Tin Deposits – a model for the future of Tin Exploration?	Dr. Luke Longridge
17:00	17:15	5053 The "Montaña de Manganeso" Mn deposit, San Luis Potosí, Mexico: mineralizing fluids and deposit typology	Mr. Joseph Madondo
17:15	17:30	5366 Vanadium, Iron, Titanium and Phosphate mineralisation in the Upper Zone of the Northern Limb of the Bushveld Complex	Mr. Troth Saindi
17:30	17:45	5400 Prospectivity mapping of the Bushveld granite-related mineralisation in selected areas, South Africa.	Mr. Litshedzani Mutele

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	5627 Tips and tricks to know about porphyry copper deposits in Kerman copper-bearing belt	Dr. Mansour Ghorbani
	5629 Metallogeny of Toroud_Chahshirin Mountains and various mineralization types	Dr. Mansour Ghorbani
	440 STREAM SEDIMENT GEOCHEMISTRY OF NALLAMALAI SUB-BASIN, DORNALA – CUMBUM AREAS, SOUTH INDIA - A TOOL FOR MINERAL EXPLORATION	Mr. NATARAJAN NANDHAGOPAL
	4511 Follow-up soil survey to evaluate regional Pb and Zn soil anomalies in Nylstroom, Limpopo Province, South Africa.	Mr. Thato Ntikang
	3986 Gold mineralization along the Gurharpahar ridge in the Mahakoshal fold belt, Central India: Mode of occurrence, distribution, structural controls and exploration.	Dr. M.K Mukherjee
	51 The Alteration Index as a guide to base metal sulphide mineralization in the Xixano Complex, Northern Mozambique	Mrs. Judy Schlegel
	5628 Metallogeny of Tarom – Hashtjin Mountains and various mineralization types	Dr. Mansour Ghorbani

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08:00	08:15	1317 Mineral exploration in regolith-dominated terrains: considerations, challenges and new approaches	Dr. Ignacio Gonzalez-Alvarez
08:15	08:30	473 Titaniferous lateritic-bauxite (TLB) capping over Sung Valley Pyroxenite: A host for REE mineralisation (?) in Meghalaya, India	Mr. Mohd. Sadiq
08:30	08:45	3466 Geochemical exploration through cover in deeply weathered terrains	Dr. Ravi Anand
08:45	09:00	960 Identification of concealed geological structures in a Grassland Area in Inner Mongolia, China: A Perspective from Temperature Vegetation Dryness Index	Dr. Chengbin Wang
09:00	09:15	4671 New C- and O-isotopic compositions of smithsonite from Skorpion and Rosh Pinah Zn-(Pb) deposits (Namibia): preliminary results and implications	Mr. Giuseppe Arfè
09:15	09:30	1369 Past and present climate controlling the formation of Zn-(Pb) supergene Nonsulfide ores	Prof. Maria Boni
09:30	09:45	1190 The Zn-Nonsulphides district of Bongará (Northern Peru)	Prof. Maria Boni
09:45	10:00	1826 Nanogeochemistry: metal migration mechanism and greenfield exploration in regolith-covered terrains	Dr. Xueqiu Wang

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10:30	11:00	5072 Mineral exploration models from simple fiction to complex reality	Prof. Reimar Seltmann	Keynote
11:00	11:15	1144 Mineralogy and Osmium Isotope Composition of Placer Platinum Group Element and Gold Grains Recovered from Offshore Southern Namibia: Possible Source Rocks in the Gariep Belt?	Dr. Evelyn Mervine	
11:15	11:30	777 The contribution of bismuth melts to gold mineralization: a case study from the Baolun gold ore deposit in Hainan Province of South China	Mr. Deru Xu	
11:30	11:45	1723 Effect of the gypsum-salt layer oxidation barrier for ore-formation of Iron-Oxide-Apatite and skarn type iron deposits in the Middle-Lower Yangtze River polymetallic ore Belt, China	Dr. Yan He Li	
11:45	12:00	2715 Characterizing behavior of trace elements in source rocks using mathematical modeling	Professor Yongzhang Zhou	

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14:00	14:15	2341 Geological and geochemical prospecting models of porphyry Mo deposits in China	Dr. Wei Wan
14:30	14:45	1314 Types and genesis of the BIF-hosted high-grade iron ores in China	Dr. Houmin Li
14:30	14:45	2747 Hydrogeochemistry of uranium leaching, transportation and precipitation in surficial environments in western India	Ms. Bijal Chudasama
14:45	15:00	2257 Crustal Evolution and Gold Metallogeny in Peninsular India - Studies for Exploration Target Selection	Dr. Dhawan Gopal
15:00	15:15	3007 Regolith mapping and geochemical exploration in the Chapada-Mara Rosa Cu-Au district, Central Brazil	Dr. Claudio Porto
15:15	15:30	1722 Can drilling fluids be a useful sample media for mineral exploration?	Dr. Nathan Reid

Times		Paper # Title	Speaker
16:00	16:15	5262 Rio Tinto Exploration - Our African Evolution	Mr. Nevan Pillay
16:15	16:30	3900 Petrogenesis of Cu-Ag Skarn Mineralization at the McKenzie Gulch Area Northern New Brunswick: Relating Dike Swarms Emplacement and Skarn Evolution Using LA-ICP-MS U-Pb Zircon and Titanite Dating Techniques	Mr. Ronald Massawe
16:30	16:45	5167 Metallogenic Characteristics of the Gangdese and the Bangonghu Copper Metallogenic Belt, Tibet, China	Prof. Jin-Hua YE
16:45	17:00	4858 Geochronology and Nd-Sr-Pb isotopic compositions of Early Cretaceous intrusions and associated porphyry Cu deposits in eastern Alaska	Dr. Garth Graham
17:00	17:15	5170 Germany's Marine Exploration in the Indian Ocean	Dr. Ulrich Schwarz-Schampera
17:15	17:30	5412 Remote estimation of dielectric properties of palaeochannel-fill sediments in Tubas Area, Namibia: implications for surficial uranium exploration	Ms. Sanchari Thakur

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1806	New precise timing constraints for Keketuohai pegmatite No.3 vein, Altaid Orogen, Northwest China	Dr. Feng Liu
3617	Genesis of the stratiform Pb-Zn ore bodies in Qingchengzi in the North China Craton: Rb-Sr and C-O-S-Pb isotope constraints	Dr. Yubo Ma
3279	Structure and emplacement of the granite pluton of Tiébélé, Southern Burkina Faso (West Africa) and its implication in base metals (Zn-Pb-Cu) and gold (Au) anomalies distribution	Dr. Hermann Ilboudo
2992	Granites in the Khentei Batholith, Northern Mongolia, and related mineralization	Mr jingwen Mao
1010	Origin of two types of nelsonite in the Damiao anorthosite complex, North China Craton	Mr. Lixing Li

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08:00	08:15	52 Zn spinel composition in the Mavala-Mpaca area, southern Xixano Complex, Northern Mozambique	Mrs. Judy Schlegel
08:15	08:30	1106 Electro-geochemical extraction in exploration for sandstone-hosted uranium deposits in northern China	Dr. Dan Ke
08:30	08:45	222 Monitoring of mineral deposits in order to optimize the use of subsoil resources	Prof. Georgii Rudko
08:45	09:00	576 Using microbial indicators in mineral exploration: Lessons from Australia	Dr. Frank Reith
09:00	09:15	716 Thermomagnetic Component Measurement (TCM) : A New Method for Mineral Exploration in Coverage Areas	Ms. Shixin Tang
09:15	09:30	1614 Metallogenic characteristics of altered granite type Sn-Cu polymetallic deposit, Gejiu, China	Dr. Zhao Jiangnan Dr. Xiang Tong
09:30	09:45	3071 Newly Adopted and Combined Helicopter-borne, Ground-based and Laboratory Methods for Mineral Exploration	Dr. Uwe Meyer
09:45	10:00	5574 Granite metallogeny through the zircon record: A study from Myanmar	Dr. Nicholas Gardiner N.J. Evans

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10:30	10:45	3683 Downhole XRF-Logging: A new tool to explore borehole rock composition	Uli Harms
10:45	11:00	2426 Application of highly-accurate magnetic survey for searching mineral deposits in shelf area.	Dr. Vasily Palamarchuk
11:00	11:15	2586 Using hydrogeochemistry to test mineral potential under transported cover in the Kunene Region of Namibia	Dr. Amanda Stoltze
11:15	11:30	3297 A New Method for Resource Assessment and Prospect Delineation: Based on Geological Process Analyzing	Dr. Ruizhao Qiu Dr. Zhigang Liu
11:30	11:45	4508 Petrogenetic tools as tracers of ore-forming processes: An appraisal of recent approaches	Dr. Nicholas Gardiner
11:45	12:00	2155 SWIR characteristics of alteration minerals in Tongshankou porphyry-skarn Cu -Mo deposit in the Southeastern Hubei Fe-Cu Province, eastern China	Dr. Jinsheng Han

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14:15	14:30	4558 Spatial modeling of metal contents in a kuroko-type deposit by joint use of geostatistics and physical law	Mr. Lei Lu
14:30	14:45	5340 Chlorite chemistry as a new exploration tool in the propylitic halo of porphyry-epithermal systems	Dr. Jamie Wilkinson
14:45	15:00	5369 Towards better understanding of Porphyry Copper and IOCG systems through magnetic forward modelling of variable 3D geology-property scenarios	Dr Desmond FitzGerald
15:00	15:15	4339 Application of in situ SHRIMP U–Pb geochronology to orogenic gold exploration	Ms. Imogen Fielding
15:15	15:30	4864 Pre-liminary Geophysical Interpretation and Modeling of the Magnetic Data in the Eiseb Area, Omaheke Region, Namibia	Mr. Ivor Kahimise

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16:00	16:15	1411 Using geophysical data to create a 3D conceptual geological model for the Maremane Dome, Northern Cape, South Africa	Mr. Adam Wooldridge
16:15	16:30	73 Seismic beam-forming method with Cosine amplitude distribution	Prof. Tao Jiang
16:30	16:45	3100 Structural control on supergene nickel deposits explored by heliborne electromagnetic surveys in New Caledonia	Ms. Marion Iseppi
16:45	17:00	3379 The Largest in the World Conductive Zones as Indicators of the Earth's Crust Structure and Evolution.	Dr. Abdulkhai Zhamaletdinov
17:00	17:15	4897 On the structure of Fennoscandian AR-PT High Conductive Suture Zones on the Example of Ladoga-Bothnian Anomaly	Dr Abdulkhai Zhamaletdinov
17:15	17:30	1060 Geodynamic Model of the Earth Crust Structure from the Control Source Electromagnetic Soundings CSEMS and the Super Deep Drilling Data	Dr. Abdulkhai Zhamaletdinov

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	3206 Transported cover as an efficient medium to identify ore geochemical footprints: the DeGrussa landscape geochemical evolution	Dr. Ignacio Gonzalez-Alvarez
	4584 Deeper crustal configuration of the lithosphere over Barak Valley region, Indo-Myanmar Orogen	Dr. DEVESH WALIA
	3519 Approaching Subsurface to Assess Lignite Deposits by Gravity Survey in Bikaner District, Rajasthan, India	Dr. Kashi Nath Singh Yadav
	481 REE enrichment in lateritic soil profiles and its economic potentiality - a case study from Nongpoh Granitoids, Meghalaya, India	Mr. Ravi Kumar Umrao
	2635 Joint Inversion of geophysical data around submarine hydrothermal deposits based on core samples	Dr. Tada-Nori Goto
	4979 Geophysical mapping of the Ramokostad Carbonatite Complex, Northwest, South Africa	Mr. Lebogang Ledwaba
	1214 New method of finding the zones of hydrothermal sulfide mineralization in the ocean	Dr. Sergei Petukhov Dr. Sergei Andreev Mrs. Natalia Kolchina Mr. Aleksander Seleznev
	5540 Application of acoustic stratum inversion for predicting lithophysical rock properties of complex oil and gas prospective objects	A.B Krivitski
	33 A Comparative Study of Hand-Held Magnetic Susceptibility Instruments	Mr. Deng Ngang Deng
	2888 Bio-exploration on the Ghanzi Ridge copper deposit	Ms. Natasha Auret
	582 Quantitative assessment of ground water as a media for mineral exploration in arid and semiarid region	Ms. Rajni Mathur
	4916 Computation of the gravity field and its gradient: Some applications	Dr. Chandra Prakash Dubey
	5007 Optimizing the exploration of hydrothermally enriched calcium carbonate bearing faults using geophysical methods: Implications to resource estimation	Mr. Emmanuel Chirenje
	2756 Self-Potential and Gravity Methods as Signatures of Massive Sulphides Mineralization, Jebel Abu Mahmoud, Derudeb Area, Red Sea Hills, Sudan	Mr. Alnaaeem Saeed
	5157 Development of surficial, environmentally low-impact exploration methods for the sub-arctic environment	Dr. Vesa Nykänen
	566 Multi-scale detection of buried mineralization and lithology through Kalahari transported cover in NW Botswana	Dr. Ravi Anand
	4178 Application of the crystals habits cavities forms of Cu-Co sulfides in green field exploration along the Lufilian arc: An example of Tenke Fungurume Mining District (Democratic Republic of Congo)	Ms. Pascal Matanda Mambwe
	2925 The Mantle Derived Potassic and Ultrapotassic Rocks Related Enrichments of Rare Earth Elements (REE) on Peneplains of Golcuk District (Southern Turkey)	Mr. Ali Tugcan Unluer
	1627 Geochemical exploration in regolith-covered terrains: a case study from the periphery of the Zijinshan copper-gold mine, southeastern China	Dr. Bimin Zhang Dr. Xueqiu Wang Professor Rong Ye
	1077 Interaction of ELF-ULF Controlled Source Electromagnetic Waves with the Earth Crust and Ionosphere FENICS-2014 experiment	Dr. Abdulkhai Zhamaletdinov
	4435 Gold Grains and X-ray Microscopes – A New Exploration Tool for Identifying Proximal and Distal Gold Deposits	Mr. Shaun Graham
	4665 Selective leaching Analysis of Cu porphyry deposit, Plutus Prospect, Botswana.	Ms. Josephine Uushona

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	157 Gold exploration using integrated geophysical survey methods: A case study for Ncema area of Esigodini in Zimbabwe.	Mr Joseph Zulu
	621 Contribution of Remote Sensing Radar to analyse fracturing and identify new drilling targets from Oumé license-Côte d'Ivoire	Mr. Anderson MAHIZAN
	4931 Geological mapping by using ASTER data in Tonota area, North-East Botswana	Mr. Kewame Gwandu
	704 Geochemical identification marks of hydrothermal metallogenic system boundary	Mr. Shengming Ma

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08:00	08:15	3674 Mineral Potential Mapping and Resource Estimation with Artificial Neural Networks: Approaches and Use Cases	Mr. Andreas Knobloch
08:15	08:30	3652 Potential mapping with interpolated covariables	Mr. Helmut Schaeben
08:30	08:45	1857 Mathematical assumptions of prospectivity modelling with special emphasis on joint conditional independence	Mr. Helmut Schaeben
08:45	09:00	1774 Quantifying structural control on ore deposition using anisotropy of magnetic susceptibility (AMS): Case studies from the Cloncurry IOCG/ Sedex province.	Dr. James Austin
09:00	09:15	122 Quantitative prediction and evaluation of seafloor hydrothermal sulfide resources in the Indian Ocean	Prof. Jianping Chen
09:15	09:30	1084 Application of the pattern recognition technique to locate subsurface magnetic anomaly	Mr. John Stephen Kayode

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10:30	10:45	2162 3D gravity imaging based on inversion of pseudomagnetic amplitude data	Mr. Zelin Li
10:45	11:00	5378 Rank Statistical Analysis of Selected South African Gold Endowment	Mr. John Paul Hunt
11:00	11:15	2705 Scale dependence of structural control on gold deposits in Kumasi Basin, Ghana	Ms. Bijal Chudasama
11:15	11:30	4120 Application of a Singular Value Decomposition (SVD) for Identification of Au Anomalies in the Jiaodong Gold Field, Eastern Shandong Peninsula, Eastern China	Ms. Luxue Qin
11:15	11:30	4641 Mineral Resource Assessment of Porphyry Cu-Mo Deposits in Gobi Desert Landscape of Eastern Tianshan, China	Prof. JIANGUO CHEN

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14:00	14:15	2457 Assessment of Geological-geophysical methods for prospecting of chromite deposits in Camagüey province, Cuba	Mr. Ruben Gonzalez
14:15	14:30	4310 Integrated Exploration Platform: Software Tools for Integrated Multi-Data Interpretation	Prof. Eun-Jung Holden
14:30	14:45	4522 Geological analysis of aeromagnetic and gravity data from Eastern Tianshan, China: implications for potential porphyry Cu-Mo polymetallic deposits exploration	Dr. Fan Xiao
15:00	15:15	1563 Molybdenum Mines Prospecting Using New Developed MTEM System	Professor Qingyun Di
15:15	15:30	5331 Towards the resolution of dipping contacts in the Capricorn Orogen using AEM	Ms. Sasha Banaszczyk

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16:00	16:15	2245 Systematization of deep-sea polymetallic sulfides of the Mid-Atlantic Ridge	Д-р Svetlana Babaeva
16:15	16:30	907 Mapping mineral potential at continental to regional scales using a mineral systems approach: Ni-Cu-PGE and IOCG systems in Australia	Dr. Roger Skirrow
16:30	16:45	5409 What Controls the Formation of Large Surficial Uranium Systems? A comparative study of Langer Heinrich, Namibia and Yeelirrie, Western Australia	Ms. Bijal Chudasama
16:45	17:00	2127 Deep Cu-Ag deposits – a chance for progress in the copper industry	Prof. Stanislaw Speczik
17:00	17:15	5210 The international diamond business: the role of southern African producers in change and consolidation	Dr. John Bristow
17:15	17:30	5161 Brownfield Exploration as a Strategic Initiative to Extending the Life of Mine	Mr. Hendrik Pretorius
17:30	17:45	4664 Granite-related rare earth elements prospectivity mapping of the Bushveld Complex, South Africa	Dr. Alazar Yosef Billay

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	1244 Cluster Analysis of Chromites, Lena West Diamond Region, NWT, Canada	Dr Raymond Davies
	1946 Information-analytical basis for geological mapping of the ocean floor.	Mrs. Natalia Kolchina
	5534 Objects, methods and main results of quantitative estimation of hydrocarbon resource base of the Russian Federation	Dr. Maria Kravchenko
	1958 The recovery of chrome from spiral tailing dumps.	Ms. Duduetsang Tlhabane
	846 Geochemical data interpretation techniques and mineral target generation, Northern Limb, Bushveld Complex, South Africa.	Mr. Sibongiseni Hlatshwayo
	5271 3D Geophysical modelling of the Bethlehem Sub-Basin, Free State, South Africa	Ms. Ansuya Naidoo
	5532 Geological and economic monitoring of hydrocarbon resources of the Russian Federation using GIS technologies	Mrs. Marina Iutina
	4902 Small scale processing economic potential of Malawian carbonate resources for cement production	Mr Freeman senzani
	1121 The rare earth elements geochemistry for surface sediments from four transects in the South China Sea and its geological significance	Dr. Li Miao
	1761 Geotemperature field characteristics of laizhou Bay, Jiaodong Peninsula, China	Prof. Fengshan MA