



T14.1 - Environmental Geosciences	<i>Date</i> Monday, 29 August 2016	<i>Time</i> 14:00 to 15:30
	<i>Chair</i>	<i>Room</i> MR 2.61- 2.63

Times		Paper # Title	Speaker	
14:00	14:30	4135 Sustainable Options to Manage Acid Mine Drainage in the Witwatersrand Gold Fields	Dr. Henk Coetzee	Keynote
14:30	14:45	4080 Environmental Monitoring Programme – Northern Mozambique and South Malawi	Mr. Simplicio Chivambo	
14:45	15:00	3308 Groundwater basin management based on monitoring system -Groundwater level and land subsidence, Kanto Groundwater Basin in Japan -	Mr. Kunio FURUNO	
15:00	15:15	2284 Modeling of Basic Water Quality and Fate of Organic Contaminants in Swarna River Basin, Southwestern India.	Dr HN UDAYA SHANKARA	

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16:00	16:15	2280 Application of QUAL2Kw as a Modelling Tool for Water Quality Modelling in Swarna River, South-western India	Dr. UDAYA SHANKARA HARIKRIPA NARAYANA
16:15	16:30	204 A Study of the Vulnerability of a South African Coastal Plain Aquifer to Seawater Intrusion Using the GALDIT Index Method	Dr. Molla Demlie
16:30	16:45	32 Heavy Metals Pollution of Streams and River Sediments in parts of Akpabuyo Local Government Area, Nigeria and its Implication for Agricultural Practices and Environmental Protection	Prof. Barth Ekwueme
16:45	17:00	5096 The bioremediation of thiocyanate from gold mine tailings.	Dr. Mathew Watts
17:00	17:15	4965 Oxygen diffusion and geochemical speciation in abandoned gold mine tailings dams of the Witwatersrand	Mr. Johan Fourie
17:15	17:30	4657 The distribution of some potentially harmful elements (PHEs) in the Krugersdorp Game Reserve, Gauteng, South Africa: Implications for wildlife health	Dr Michael Shapi
17:30	17:45	4531 Ground movement as a result of dewatering in the Far West Rand area of Johannesburg resulting in the formation of Sinkholes and Dolines	Mr Kedibone Phogole

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08:00	08:30	283 Geochemistry, mobility and bioavailability of contaminants in mine tailings of Namibia	Mr. Ondrej Sracek Keynote
08:30	08:45	3910 Fly Ash as a backfill material-A geotechnical investigation	Dr Viswanth Ravi Kumar Vadapalli
08:45	09:00	3672 The impact of mine dump pollution on vegetation in the Tsumeb area, central Namibia	Prof. Benjamin Mapani
09:00	09:15	3568 Polycyclic Aromatic Hydrocarbons (PAHs) in Soils, Water Sediments and Post-Flotation Wastes in Kitwe Region (Copperbelt, Zambia)	Prof. Stanislaw Wolkowicz
09:15	09:30	3272 An Unconventional Re-vegetation Plan for Remediation of an Orphan Base Metal Mine in Ontario	Mr. Mark Priddle
09:30	09:45	2667 The occurrence of ammoniosulphate minerals in abandoned gold mines of the Vredefort Dome World Heritage site, South Africa	Ms. Danél Van Tonder
09:45	10:00	2598 'Low-acid' sulfide oxidation using nitrate for potential acid drainage prevention	Dr. Nathan Reid

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10:30	10:45	2572 The reuse of waste in the mining industry	Mr Clive Saunders
10:45	11:00	2409 Integrated freeze core – ITRAX micro-XRF scanning: a non-destructive and cost effective method of baseline geochemical determination in the low-sedimentation environment of a legacy mining camp in Subarctic Canada	Prof. R. Timothy Patterson
11:00	11:15	1926 Transformation of natural sedimentation and geochemical conditions in the area of underwater extraction of ferromanganese concretions in the Gulf of Finland (Baltic Sea).	Dr. Vladimir Zhamoida
11:15	11:30	1908 Phytomining: Investigation on the gold hyperaccumulation capacity of wheat using pot trials and tailings dump material as a substrate	Ms. Tshiamo Legoale
11:30	11:45	1538 The geo-ecological rehabilitation capabilities of dolomite on a pollution plume derived from a gold tailings storage facility - a myth or reality?	Ms. Angelique Daniell
11:45	12:00	805 Artisanal and Small-scale Gold Mining and related mercury usage in India	Dr. Mihir Deb

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14:00	14:15	783 Armoring effect of limestone in acid mine drainage: Static immersion experiments	Prof. Liangqi Lei	
14:15	14:30	4779 Characterisation of precipitates formed in anaerobic and aerobic units designed to treat acid mine drainage from an abandoned coal mine in Carolina, Mpumalanga (South Africa)	Mr. Obed Novhe	
14:30	14:45	2749 Preliminary screening of gold mine tailings in the context of acid mine drainage and geopolymerization	Ms. Leahn Pieterse	
14:45	15:15	5500 The Role of Structural Frequency, Style and Weathering on the Fate and Transport of Chlorinated Solvents in Fractured Bedrock	Dr. Kevin Leahy	Keynote

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16:00	16:30	3540 Coastal change as a function of geological settings, natural forcings and anthropogenic drivers – comparative modeling approaches for management strategies	Prof. Jan Harff	Keynote
16:30	16:45	5065 Archaeological and geological markers reveal the time span and formation rates of the central coastal cliffs of Israel	Dr. Ehud Galili	
16:45	17:00	4190 The cost of adapting to sea level rise: Ports, harbours and marinas in the Southeastern Mediterranean Sea	Dr. Dov Zviely	
17:00	17:15	3930 A geo-statistical approach to estimate sediment budget and reconstruct large-scale paleo-coastal morphology	Dr. Junjie Deng	
17:15	17:30	3509 Assessment of factors contributing to the growth and loss of wetlands in Louisiana, USA	Dr. Ricardo Olea	
17:30	17:45	3184 Sediments from the abandoned river valley record low sea level in Pärnu region, eastern Baltic Sea, before the Litorina transgression	Triine Post	

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	867 Environmental stability of the processing waste from sulfide mining districts of Namibia	Prof. Ales Vanek
	4089 A multi-faceted approach to mine water source determination in South Africa. A review	Mr. Yazeed Van Wyk
	1849 Copper and lead isotopic and metallic pollution record in soils from the Kombat mining area, Namibia	Dr. Martin Mihaljevic
	2043 The factors controlling formation and intensity of Acid Mine Drainage in the area of Polish part of Muskau Arch	Dr. Krzysztof Labus
	5055 Environmental Monitoring of Mines in Namibia by the Geological Survey of Namibia, Division of Engineering and Environmental Geology.	Moses Alfeus
	1385 Hydrogeochemical assessment of groundwater quality in the Soutpansberg Basin around Tshikondeni, Limpopo Province, South Africa	Dr. Ntokozo Malaza
	322 The heavy minerals in the Kafue River sediments, the Copperbelt Mining District, Zambia: Indicators of industrial contamination	Dr. Bohdan Kribek
	4573 Characterization of surface and trapped dust samples around some ownerless and abandoned asbestos mine dumps in Limpopo province, South Africa	Ms. Maphuti Georgina Kwata
	718 Mineralogy and weathering of particulates from mines and smelters in soils from humid subtropical and semiarid areas	Dr. Vojtech Ettler
	3557 Laboratory scale testing of the passive systems to treat AMD from abandoned coal mines, Witbank, Mpumalanga province	Ms. Mpule Gloria Dube
	1273 The Use of Software for Valuation of the Glacial and Periglacial Environment of the Chaschuil Valley, Fiambalá, Argentina, Using Satellites Images	Ing. Agrimensor Marcelo Ernesto Savio
	1374 Investigation of Uranium Migration on Gold Tailings Dams Using Natural Gamma Spectrometry	Mr. Jaco Koch
	1064 U and Th source term characterisation in selected gold tailings of the Witwatersrand (South Africa): A geochemical modelling and reaction network approach	Dr. Robert Hansen
	730 Geochemical Assessment of soil, sediments and water within and around Artisanal mine sites in Southwestern Nigeria.	Dr. Mary Odukoya
	5101 The monitoring of land subsidence and groundwater level in the southeast Kanto groundwater basin, Japan	Mr. Atsushi Kagawa
	2044 Classification and assessment of abandoned mining waste facilities of the Czech Republic	Mr. Vít Štrupl

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08:00	08:15	2570 Geo-environment changes corresponding to global climate and anthropogenic injection in small river estuaries on China coast	Dr. Ping YIN
08:15	08:30	2169 Wavelet Analysis of the Dynamic Characteristics of Saltwater Intrusion in the Beibu Gulf, Southern China	Dr. QINGHUA LI
08:30	08:45	1023 3D Morphometry vis-à-vis offshore Placer resources off Chikka – Puri, Odisha, East coast of India	Dr. Sumit Mitra
08:45	09:00	764 A signal matching algorithm based on Dynamic Time Warping	Dr. Sergey Kotov
09:00	09:15	344 Sustainability of Landforms in Western Sunderban, West Bengal, India	Mr. DEBASIS SENGUPTA
09:15	09:30	5045 Integrated Protocols for Monitoring the Impacts of Landfill-Derived Leachates in Intertidal Environments	Dr. Helen Roe
09:30	09:45	4598 Innovative Burning and Reuse of Asbestos Fibers by Self-Propagating High Temperature Synthesis: the Development of an Innovative Technique for the Treatment of Asbestos Containing Waste from the Laboratory Scale to the Implementation of Prototype Plants	Prof. Maurizio Ferretti
09:45	10:00	3686 Adsorption of pharmaceuticals onto clay minerals and their organoclay derivatives	Dr. Regis Guegan

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10:30	10:45	3521 Physical and mineralogical characterisation of asbestos mine sites in preparation for rehabilitation	Ms. Ndamulelo Negota
10:45	11:00	3181 Study on the Concentration and Influence Factor of Organo-Chlorine Pesticides in Breast Milk from Three Cities in China	Ms. Song Shuling
11:00	11:15	2174 Spatial Assessment of Trace Metals in Groundwater around Udupi Thermal Plant, India	Dr. HN UDAYA SHANKARA
11:15	11:30	2158 Radioactive measurement at the fallow field that was polluted by the Fukushima Daiichi Nuclear Power Station Disaster.	Mr. KAZUYA KIMURA
11:30	11:45	2090 Scientific Advancements that Improve the Conceptual Site Model in Urban Hydrogeologic Investigations	Mr. Daniel Rogers
11:45	12:00	1775 Accumulation of Potentially Harmful Elements in Vegetables from Two Geological Settings in Zimbabwe	Dr. Maideyi Meck

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14:00	14:15	1653 The study of groundwater contamination hazard in megacities by mathematical methods (the cases of Moscow, Russia and Hyderabad, India)	Dr. Irina Galitskaya
14:15	14:30	1638 The Development of Sustainable Risk-based Site Assessment Criteria for Contaminated Land in Africa	Mr Sean Doel
14:30	14:45	1631 Fluoride Incidence in Groundwater: An Insight from Rural Parts of Central India	Prof. Deepak Malpe
14:45	15:00	1394 GIS-Techniques and AHP Method to Support Decision Making in the Selection of Landfill Sites for Solid Waste	Dr. Marcella Perricone
15:00	15:15	962 Investigation of the Influence of Heavy Metals on Soil, Groundwater, Crops and Human Health in Shijiazhuang Sewage Irrigation Area of China	Prof. Wenlou Luan
15:15	15:30	422 The uranium toxicity in groundwater in Southern Punjab (Malwa Region), India	Dr. Rajesh Chaturvedi

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16:00	16:30	5277 Groundwater Baseline Monitoring at Underground Coal Gasification Sites in South Africa	Dr. Jennifer Pretorius	Keynote
16:30	16:45	4876 Lighting up the Subsurface	Dr. John Ludden	
16:45	17:00	5423 The Saga of Indian mines: Environmental and Social Relevance	Dr. Gurmeet Kaur	
17:00	17:15	2885 Risks Associated with Consumption of Vegetables Grown in and around Abandoned Gold Mines in Kadoma, Zimbabwe	Dr. Maideyi Meck	
17:15	17:30	100 Germany's new approach for siting a nuclear waste repository	Dr. Volkmar Braeuer	
17:30	17:45	2078 Development of an Environmental Risk Management and Sustainability Model Using Chemistry, Geology, Human Activity, and Response Inputs	Mr. Daniel Rogers	

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	483 Speciation of Metals by Ionizing Radiation in Groundwater Samples from Taiacupeba reservoir, Metropolitan Region of São Paulo, Brazil	Dr Rosely Imbernon
	1218 Pollution Characteristics of Nitrogen and Isotopic Analysis of Shallow Groundwater in the Sewage Irrigation Areas of Kuihe River, China	Prof. Jinguo Wang
	4768 Biogeochemical Modelling of Arsenic in Soil-water-plant Systems in Thailand	Mr. Thanan Watcharamai
	1971 Engineering geological zoning of the Central Federal region, Russian Federation, by the suitability for allocation of disposal sites and utilization facilities for solid municipal waste	Dr. Irina Kozlyakova Dr. Irina Kozhevnikova
	2831 Oxidation-reduction condition of aquifer at geo-pollution site and change of VOCs concentration on Shimousa upland, northern Boso peninsula, central Japan	Dr. Osamu Kazaoka
	1429 Erosion and Deposition in the Alluvial Plain of the Mogi Guaçu River, Brazil	Dr. Sueli Pereira
	2123 Diatoms as a proxy in reconstructing Late Holocene environmental changes in SE Baltic Sea - a case study of the Gulf of Gdańsk sediments	Dr. Małgorzata Witak
	4399 Seasonal Variability of Polycyclic Aromatic Hydrocarbons on Surficial Soils in South-West India	Ms. Minal Gune
	758 Peloids of present-day salt lakes: geological and man-caused controls on their composition	Dr. Sergey Kotov
	2844 Microbiological Proxies and Geo-environmental Assessment: A Study from Gomati River, Lucknow, Uttar Pradesh, Central Ganga Plain (CGP), India	Dr. Ajay Kumar Arya
	2475 Effects of anthropic development in a urban beach of south Sardinia (Italy, western Mediterranean) evaluated using hydrodynamic models, run-up and DSAS indices	Prof. Sandro De Muro
	2032 Possible environmental causes and implications of corrosion on housing structures (Bontleng): A case study	Ms. Portia Tshepiso Letlole
	4343 Geochemical baselines and metal deportment in the upper Olifants Primary Catchment by using stream sediment geochemistry, Witbank Coalfield, South Africa	Mr. Robert Netshitungulwana
	565 Application of Lead Isotopic Ratios and Multivariate Statistical Analysis in Source Apportionment with a Health Risk Assessment of Heavy Metals in the Street Dust Of Kolkata, India	Mr. AVIJIT DAS
	4146 Study on Eco-geochemical Environmental Characteristics and Heavy Metal Pollution Assessment in High Incidence Area of Nasopharyngeal Carcinoma in Sihui,Guangdong (China)	Professor Yongzhang Zhou

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08:00	08:30	806 Environmental sustainability through waste minimization: case study of a successful program at a U.S. university	Dr. Syed Hasan Keynote
08:30	08:45	1992 Dilemmas and problems of raw materials strategy in Poland	Professor Barbara Radwanek-Bak
08:45	09:00	1275 CAUSES AND ENVIRONMENTAL IMPACT OF LANDSLIDE EVENT ON THE EL RODEO VALLEY – CATAMARCA -ARGENTINA	Dra. Adriana Niz
09:00	09:15	1209 Environmental impact of Agriculture activities in a Chambal project command area of MadhyaPradesh, India	Prof. Laxmi Prasad Chourasia
09:15	09:30	1019 Evaluation of Fresh Groundwater Resources for Public Water Supply in Emergencies (Case Studies from Lithuania and Russia)	Dr. Jonas Satkunas
09:30	09:45	585 Integrated water resource and risk management via localized participatory vulnerability assessment	Dr. Philipp Schmidt-Thomé
09:45	10:00	2159 Relation Between Landform and Radioactive Geopollution	Mr. KAZUYA KIMURA

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10:30	10:45	1030 State-of-the-Art in the Management of Geopolluted (contaminated) Sites in Lithuania	Dr. Jonas Satkunas
10:45	11:00	2786 Governance, tourism and water: the complexity of maintaining water quality in the Sagarmatha National Park, Nepal.	Prof. Kirsten Nicholson
11:00	11:15	5102 Liquefaction-Fluidization induced land subsidence: Impact of the 2011 Tohoku earthquake on man-made strata around Tokyo bay area, Japan	Atsushi Kagawa
11:15	11:30	923 Terms- Man-made strata, Jinji Strata, Jinji Unconformity and Jinjin Unconformity- on Anthropogenic deposits and Geopollution and Geological Hazards by Human Activity for the Future Earth	Prof. Hisashi Nirei
11:30	11:45	1459 Terminology for better description of man-made strata in relation to geopollution and geological hazards in Japan	Professor Hisashi Nirei
11:45	12:00	3309 Re-Liquefaction-Fluidization in Man-Made Strata in the Former Tone River Bed, Japan, following the 2011 Tohoku Earthquake	Mr. Kunio FURUNO

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14:00	14:15	2841	High potential part of liquefaction-fluidization in man-made strata of reclaimed land around Tokyo bay, central Japan: based on the geological survey on damaged part on the 2011 off the Pacific coast of Tohoku Earthquake	Dr. Osamu Kazaoka
14:15	14:30	1491	The Jinami by 2011 Tohoku earthquake occurred Remobilization of Diphenylarsinic acid pollution at a site in Kamisu City, Japan	Mrs. Tomoyo Hiyama

Times	Paper # Title	Speaker
	161 Methods and Results of the Urban Geological Research in Budapest City and in Hungary	Dr. Peter Scharek
	4611 Integrating Geoheritage into Environmental Impact Assessment in Spain	Dr. Enrique Díaz-Martínez
	2837 Liquefaction-fluidization mechanism in man-made strata on Yodaura along Tone River at the 2011 off the Pacific coast of Tohoku Earthquake	Dr. Osamu Kazaoka
	4892 Evolution knowledge of Technological Soils (Man-Made-Strata) in Uruguay, South America	Prof. Adriana Mezzano
	3525 Ecological Aspects of the Usage of Geothermal Wells	Mr. Oleksii Zurian