



T9.10 - Geological Mapping & Mineral Exploration: Case studies from Africa / Spectral Geology in

Exploration (minerals, hydrocarbon, geothermal) and Production

Chair

Date Wednesday, 31 August 2016

Time 16:00 to 17:45

Chair

Room MR 2.44 - 2.46

7	Times	Paper # Title	Speaker
16:00	16:15	3963 A hyperspectral remote sensing flight campaign in the VNIR-SWIR-TIR wave length for reconnaissance mapping of the BIFs of the Kaapvaal Craton	Dr. Michaela Frei
16:15	16:30	237 Spectral Characteristics of Plants Growing On Chromite Mineralization In West Pokot District, Kenya	Prof. Beneah D. Odhiambo
16:30	16:45	5152 Structural setting of the Asmara area, Eritrea	Dr. Tsehaie Woldai
16:45	17:00	4002 The Chaine des Mongos- a newly discovered Precambrian fold belt in Central African Republic and South Sudan	Dr. Sharad Master
17:00	17:15	2575 A rapid characterisation strategy involving hyperspectral core logging (HyLogging™), X-ray diffraction (XRD) and Laser Induced Breakdown Spectroscopy (LIBS) – A case study	Dr. Suraj Gopalakrishnan
17:15	17:30	2086 Applications of hyperspectral sensing in oil sands mining operations	Dr. Benoit Rivard
17:30	17:45	4277 Australia's National Virtual Core Library: Examples of integrating data across geological terranes to highlight prospectivity	Ms. Belinda Smith

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Times	Paper # Title	Speaker
	4152 Mapping and mineralogical discrimination of linear paleoproterozoic carbonatite complexes from Ihoul (In Ouzzal terrane, Hoggar, Algeria)	naouene area Mr. Massinissa Amara
	4583 Sampling methods in colluvium material for metallurgical characterisation	Mr Willem Van der Schyff
	3495 Application of Multispectral Image Landsat OLI and ASTER for Detection of Gold Mineralization in Ma Mozambique	cossa District – Mr. Félix Arnaldo Cumbane

Т	imes	Paper # Title	Speaker
08:00	08:15	3789 Characterization of the Lead-Zinc mineralization of Aggeneys, South Africa, by VNIR-SWIR and TIR hyperspectral airborne data	Dr. Michaela Frei
08:15	08:30	3600 Exploration applications of laboratory, field, and airborne imaging spectrometer data collected from the Orange Hill copper porphyry deposit, east-central Alaska, USA	Mr. Raymond Kokaly
08:30	08:45	939 GeoMAP Base a Generic Expert System Mapper for Imaging Spectroscopy	Mr. Christian Mielke
08:45	09:00	1593 GeoMAP-outcrop – 3D hyperspectral outcrop mineral and REE mapping	Dr. Christian Rogass
09:00	09:15	1095 Hydrocarbon detection with multiple remote sensing platforms	Mr. Saeid Asadzadeh
09:15	09:30	4995 Identification of rocks using a hyperspectral supercontinuum lidar	Prof. Jussi Leveinen
09:45	10:00	1074 New advances on uranium exploration using airborne hyperspectral remote sensing technology: A case study of Xuemisitan volcanic belt, Xinjiang, China	Dr. Fawang Ye

Т	imes	Paper # Title	Speaker
10:30	10:45	4969 New approaches in mineral mapping using diverse hyperspectral data as well as simulated EnMap and Sentinel 2 data	Dr. Veronika Kopackova
10:45	11:00	719 Remote Sensing of the Copper Creek District, Arizona. Results from Aster, Airborne Hyperspectral and Field Spectroscopy.	Dr. Marc Goossens
11:00	11:15	4824 The Influence of Sample Surface Preparation on Thermal Infrared Spectroscopy Results	Dr. Christoph Hecker
11:15	11:30	1383 Using thermal imagery to find G-spots	Dr. Neil Pendock
11:30	11:45	1288 Using Spectral Data in Exploration for Geothermal Resources	Dr. Wendy Calvin
11:45	12:00	1260 High resolution rapid revisit InSAR monitoring of surface deformation	Dr. Vern Singhroy

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	Times	Paper # Title	Speaker
14:00	14:15	5001 EARLY WARNING SYSTEM FOR EARTHQUAKES DISASTER MITIGATION INSYRIA BY USING REMOTE SENSINED DATA AND SPACE IMAGERY. CASE STUDY: DETECTING AND MONITORING THE ACTIVE FAULTING ZONESALONG THE AFRO-ARABIAN- SYRIAN RIFT SYSTEM.	Dr. Moutaz Dalati
14:15	14:30	2884 Influence of the Environmental Conditions on Surficial Mapping Using LANDSAT-5 TM and RADARSAT-2 Polarimetric SAR Images	Brigitte Leblon
14:30	14:45	1644 Potential of sinkhole precursor detection through interferometric SAR	Mr. Andre Theron
14:45	15:00	2482 Remarkable land subsidence in plain aquifers of Iran: evidence from two decades of InSAR observations	Dr. Mahdi Motagh
15:15	15:30	1756 Satellite synthetic aperture radar for monitoring of surface deformation in shallow underground mining environments	Dr. Jeanine Engelbrecht

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T	Γimes	Paper #	Title	Speaker
16:00	16:15	1931	Pre- and co-seismic surface deformation of graviquakes: the 1997 Colfiorito earthquake (Northern Apennines, Italy)	Ms. Emanuela Valerio
16:15	16:30	899	Future Hyperspectral VSWIR and Multispectral TIR Spaceborne Instruments	Mr. Michael Abrams
16:30	16:45		Geological mapping of Mountain Pass Carbonatite Complex, USA, using the EnGEOMAP (basic mineral mapping and REE mapping)	Ms. Nina K. Boesche
16:45	17:00	5124	Global Hydrocarbon Exploration and Monitoring: Current Possibilities and Projections for the Near Future and Beyond	Prof. Carlos Souza Filho
17:00	17:15	2096	Potential of spaceborne imaging spectroscopy for surface mineral detection in northern latitudes	Dr. Benoit Rivard
17:15	17:30	1282	The Future of Global Mapping for Energy and Mineral Resources	Dr. Wendy Calvin
17:30	17:45	2640	Insight into the geodynamics of southern Africa; crustal thickness and upper mantle structure of Botswana	Prof. Mark Van Der Meijde

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	Chair	Room Exhibition
Times	Paper # Title	Speaker
	2498 Multispectral Landsat 7 ETM+ enhancement images and airborne geophysics data processing for geological mapping of the Ahnet terrane (Western Hoggar, Algeria).	Prof. Safouane Djemai

2494 Remote sensing and airborne geophysics for geological mapping of the Tefedest terrane (Central Hoggar, Algeria). Prof. Safouane Djemai

Date Thursday, 01 September 2016

Time 17:45

19:00

T7.P4 - Geoscience Data and Information Systems

Times	Paper # Title	Speaker
	2521 Surface deformation monitoring by Insar techniques. Case study of the region of In Salah, Algeria.	Prof. Mohammed Abed
	2468 Use of RADARSAT-2 and ALOS-PALSAR images for organic terrain mapping in New Brunswick	Dr. Armand LaRocque
	1613 Assessment the activity of deep-seated landslide by using TCP-InSAR interferometry from ALOS/PALSAR images	Dr. Rou-Fei CHEN
	1757 Longwall mining and surface deformation – lessons learned from dInSAR measurements	Dr. Jeanine Engelbrecht
	1094 Spectral analysis of fresh and weathered rocks overlying the Alborz hydrocarbon trap, Qom area, Iran: remote sensing implications	Mr. Saeid Asadzadeh
	4457 Application of remote sensing in surveying for REE-rich carbonatites in Tamil Nadu (Southern India)	Mr Petr Mixa
	1141 Recent Surface Deformation in western Himalaya: Uttarakhand state of India	Prof. Chung-Pai Chang
	1754 Fully polarimetric ALOS PALSAR data to aid geological mapping in densely vegetated areas	Dr. Jeanine Engelbrecht

T9.15 - Proximal and Remote Sensing Technologies	Date Friday, 02 September 2016	Time	08:00	to	10:00
	Chair	Room	MR 2.44 -	2.46	

	Times	Paper # Title	Speaker
08:00	08:15	4062 Random Forests applied as a soil spatial predictive model across an aridic to ustic area of Indian States	Mr. GAURAV SHUKLA
08:15	08:30	570 The Architecture on Geological Survey Intelligent Space	Dr. LI CHAOLING
08:30	08:45	2272 Multifractal Analysis for Threshold Determination in Hydrothermally Altered Images around Dutsen Danbakoshi, Northwestern Nigeria.	Mr. Abdulgafar Amuda
08:45	09:00	4444 Radar interferometry for ground subsidence identification and monitoring using ALOS-2 PALSAR-2 data: a case study of KOSH region of South Africa	Dr. Abraham Thomas
09:00	09:15	4382 Spatial and temporal variation of suspended sediment concentration in the near shore waters, Southern Karnataka, India	Mr. ATEETH SHETTY

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T	Times	Paper # Title	Speaker
10:45	11:00	3556 Towards a global mineral mapping or Earth's surface	Mr. Michael Abrams
11:00	11:15	2467 Application of remote sensing and GIS to near-surface aquifer mapping for landslide susceptibility assessment: a case study in in Hoa Binh Province, Vietnam	Dr. Le Quoc Hung
11:15	11:30	2487 Mapping Surface Lineaments in the Umiujalik Lake Area, Nunavut Using Multi-Beam Radarsat-2 Polarimetric SAR Images	Dr. Brigitte Leblon
11:30	11:45	2463 Use of RADARSAT-2 SAR and LANDSAT-5 TM Images for permafrost feature distribution mapping	Dr. Prof. Brigitte Leblon

T9.P5 - Proximal and Remote Sensing Technologies	Date Friday, 02 September 2016	Time	12:00	to	14:00
	Chair	Room	Exhibition		

Tin	nes	Paper # Title	Speaker
		2126 Using GIS to Evaluate Lake Palestine and Potential Impacts of Raw Water Withdrawal for an Expanding Population	Mr. Ryan Michell
		5115 The Study on the Mechanism for Weak Anomaly Spectral Response of Porphyry Copper Mineralization Alteration	Mrs. Zhifang Zhao
		2712 Geological and geomorphological mapping with digital mono- and 3D stereo-photogrammetry.	Prof. Silvio Seno