



T6.1 - Forensic Soil Science and Geology *Date* **Monday, 29 August 2016** *Time* **14:00** *to* **15:30**
Chair *Room* **Westin - Victoria & Alfred**

Times		Paper # Title	Speaker
14:00	14:15	3078 Successes and Failures in Detecting Buried Non-metallic Objects Using Ground (and Water)Penetrating Radar (WPR and GPR)	Dr. Alastair Ruffell
14:15	14:30	3649 A GIS-based landscape approach to Forensic Search Strategies and RAG mapping	Dr. Jennifer McKinley
14:30	14:45	4695 Analysis of leachate, VOCs, fatty acids and mineralogy following the discovery of a homicide grave: Potential implications for police led open area ground searches for burials	Dr. Laurance Donnelly
14:45	15:00	1359 Establishing Australia's first Body Farm - The Australian Facility for Taphonomic Experimental Research (AFTER)	Prof. Shari Forbes

Times		Paper # Title	Speaker
16:00	16:15	4051 The Importance of the Field of Forensic Soil Examination being Aligned with the Wider Discipline of Forensic Science	Prof. Hilton Kobus
16:15	16:30	3838 Geological Society of London (GSL), Forensic Geoscience Group (FGG); the first 10 years and the International Union of Geological Sciences (IUGS), Initiative on Forensic Geology (IFG); the first 5 years	Dr. Laurance Donnelly
16:30	16:45	64 Igneous Phosphate Resources of East and South east Africa	Mr. Wondafrash Mammo Ghebre
16:45	17:00	4233 Introduction to the Exploitation of Microscopic Traces for the Geo-sourcing of Forensic Soil and Dust Evidence: Methods and Examples from Casework	Mr. Skip Palenik
17:00	17:30	4215 Predicting the origin of soil evidence: high throughput eukaryote sequencing and MIR spectroscopy applied to a crime scene scenario	Dr. Jennifer Young
			Keynote

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	4014 Forensic Geophysics: ground penetrating radar application in archaeological research in Tekoha Jevy village, Parana, Brazil.	Mr. Fábio Salvador
	5315 Comparison of ginseng planting field soil to solve a murder case	Ms. Hongling Guo
	4101 Novel use of monochromatic light mineral separation techniques to enhance agromineral concentration for plant nutrient release from mesocratic and leucocratic fractions of Pelotas monzogranite, RS, Brazil	Mr. Matheus Grecco
	2429 Development of Chernozem – Luvisol toposequence in the North-east Namibia	Dr. Vit Penizek
	4910 Preliminary results of a geoelectrical survey in a vineyard in Estremoz, Portugal	Prof. Antonio Correia
	3874 Prairie Mound Morphology and Age in the Arkansas River Valley, south-central United States	Dr. Brad Lee
	4744 Estimation of Volumetric Oil Content in Unsaturated Soils using Thermo-TDR Techniques	Mr. Shinsuke Aoki

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08:00	08:15	5395 Interpreting the transfer method of soil evidence on clothing by identifying trace soil patterns	Prof. Robert Fitzpatrick
08:15	08:30	5358 Trace evidence examination using laboratory and synchrotron X-ray diffraction techniques	Mr. Mark Raven
08:30	08:45	2160 Mineralogy and forensic geology to solve a foreign trade trickery	Mr. FABIO SALVADOR
08:45	09:00	5372 The importance of geological and soil materials as trace evidence in solving criminal investigations in Australia	Prof. Robert Fitzpatrick
09:00	09:15	5227 Tracing illicit gold from South America	Dr. Roger Dixon
09:15	09:30	4543 Tracing the source of stolen PGM smelter products	Dr. Roger Dixon
09:30	09:45	5118 Portable X-ray Fluorescence (PXRF) Spectrometry of Soils: Method Limitations	Dr. Elisa Bergslien

Times		Paper # Title	Speaker
10:30	10:45	3485 Environmental magnetic studies of soil profiles from tropical Southern India: A window to pedogenic processes and sediment-source linkage	Dr. Rajasekhariah Shankar
10:45	11:00	3421 Ecological services and biophysical functioning of agriecological soils of Burkina Faso	Prof. Mikael Motelica-Heino
11:00	11:15	4951 Plant Growth Promoting Rhizobacteria (PGPR) Enhance Plant Drought Stress Tolerance: Physicochemical and Hydrological Changes in Rhizospheric Soil	Prof. Yan Jin
11:15	11:30	324 Hydrochemical Characterisation And Quality Appraisal Of Soil In The Foothills Of Himalaya In Parts Of Uttarakhand, India	Mrs. RESMI SATHIKUMAR
11:30	11:45	3901 Novel potash fertiliser from nepheline syenite for Africa's agricultural growth	Mr. Annock Chiwona
11:45	12:00	1368 A COMPARATIVE STUDY OF LASER DIFFRACTION VS CONVENTIONAL SEDIMENTATION AND SIEVE ANALYSES FOR PARTICLE SIZE MEASUREMENT USING A VARIETY OF SOUTH AFRICAN SOILS.	Mr. Jaco Koch

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	1224 Forensic Geosciences applied to the presence or absence of a corpse	Dr. Rosa Maria Di Maggio
	1226 Geoforensics in Italy: Education and Research Standards	Dr. Rosa Maria Di Maggio
	2729 Possibility of describing sand grain morphology by image analysis	Dr. Ritsuko Sugita