

Day 1 – Monday 15th December 2014

08:30-09:30	Registration & Coffee	
09:30	Welcome	Welcome + Introduction to the GRSG, GRSG Chairman: Luke Bateson (BGS)
AM1	Past and Future Geological Remote Sensing	Session Chair and Introduction: Eric Peters
09:45	Keynote: 25 years and more of geological remote sensing snapshots then and now	Geoff Lawrence, TREICol (founding Chairman)
10:25	The past, present and future of remote sensing at Shell	Nick Kellerman: Shell, Netherlands
10:45	32 years of Remote Sensing Spectral Geology	Dr Micky Brown: Mappa Mundi, UK
11:05	Geological Remote Sensing since 1970 – my, how you’ve grown, whatever next?	Nigel Press, Founder and former owner of Nigel Press Associates
11:25-11:55	Coffee Break 1	
AM2	Geological Mapping 1	Session Chair: Luke Bateson (BGS)
11:55	30 years of coastal cliff monitoring in Portugal: from simplified methods to new remote sensing techniques	Rita Matildes: University of Lisbon, Portugal
12:15	Field Mapping with a hand held high resolution digital camera and 3D motion sensor	Erik Vest Sorensen: Geological Survey of Denmark (GEUS)
12:35	Assessing the use of object based classification for lithological mapping	Dr Stephen Grebby: BGS, UK
12:55	Improved delineation of litho contacts by super resolution mapping of Landsat imagery of Cuddalore region Southern India	Shanmuga Priyaa S: Anna University, Chennai India
13:15-14:15	Lunch (+ poster session + exhibition) Sponsored by Itres	
PM1	Oil & Gas 1	Session Chair: Martin Insley (Tullow Oil)
14:15	Keynote: Advances in satellite remote sensing for hydrocarbon exploration	Martin Insley: Tullow Oil, UK
14:55	Remote Sensing in the tropics: linking the onshore with the offshore of South East Asia	Duncan Witts: NPA Satellite Mapping (CGG), UK
15:15	Validation of operational surface movement measurement at an enhanced oil recovery field	Michael Henschel: MDA, Canada
15:35-16:05	Coffee Break 2	
PM2	Oil & Gas 2	Session Chair: Mark Nightingale (Shell)
16:05	Supporting Reservoir Management and geomechanical model calibration with advanced InSAR surface displacement monitoring	Andrea Tamburini: TRE, Italy
16:25	Remote Sensing and geophysical footprints of microseepages in Brazilian onshore basins: possible vectors towards petroleum plays	Prof Carlos Roberto de Souza Filho: University of Campinas, Brazil
16:45	KSAT worldwide oil spill detection service in NRT: experiences, challenges and future	Carles Debart: KSAT, Norway
17:05	GIS and Remote Sensing based quantitative assessment of oil spill frequencies, leak sources and their controlling natural factors around oil rocks over islands in the Caspian sea using multi temporal Envisat radar satellite images 2009 – 2010	Emil Bayramov: Dresden University of Technology, Germany
17:25	GRSG AGM <i>We are grateful to Exelis for sponsoring the Student Committee members travel</i>	The Geological Remote Sensing Group Annual General Meeting (AGM)
18:00	Wine Reception <i>Sponsored by Spatial Energy</i>	Geological Society

Day 2 – Tuesday 16th December 2014

08:30-09:00	Registration & Coffee	
09:00	Welcome	Welcome + Introduction to the GRSG, GRSG Chairman: Luke Bateson (BGS)
AM1	Remote Sensing and Disaster Management	Session Chair: Richard Teeuw (University of Portsmouth)
09:10	Keynote: How the use of remote sensing for disaster management has evolved over the past 25 years	Richard Teeuw: University of Portsmouth, UK
9:50	Assessing data poverty – case studies for emerging countries	Mat Leidig: University of Portsmouth, UK
10:10	The use of remote sensing in earthquake disaster response (Kashmir & Haiti)	Anna Mason: MapAction UK
10:30-11:00	Coffee Break 1	
AM2	Planetary	Session Chair: Gareth Morgan (Imperial College)
11:00	A geomorphic study of Kasei Valles, Mars: based on super quality DEM generation	Matthew Webster: UCL, UK
11:20	Characterisation of a potential landing site of interest in the lunar South polar region	Huma Irfan: UCL/Birkbeck, UK
11:40	Near Infrared CRISM investigation of hydrothermally altered Amazonia impact craters on Mars	Stuart Turner: University of Leicester, UK
12:00	Geomorphological Interpretation of glacial landforms in eastern Hellas Planitia, Mars	Stephen Brough: University of Aberystwyth, UK
12:20	Comparative fluvial geomorphic analyses of Martian and Terrestrial images – a prelude to Mangalyann image analyses	Vaishali Rajendra Kumar: Anna University Chennai, India
12:40	Then and now: a look at how our view of Mars has changed	Joel Davis: UCL, UK
13:00-14:00	Lunch (+ poster session + exhibition) Sponsored by Itres	
PM1	Geohazards	Session Chair: Stuart Marsh (University of Nottingham)
14:00	Keynote: No silver bullet but plenty of silver linings: 25 years of EO for Geohazards	Stuart Marsh: University of Nottingham, UK
14:40	Datong ground deformation monitoring using ISBAS technique/Deformation detection using ISBAS: A case study in Northern Peninsular Malaysia	Muhammad Asyran and Ahmed Dhahir Athab: University of Nottingham, UK
15:00	Sabkha geohazard detection using multispectral remote sensing	Julita Drweiga: UCL, UK
15:20	The contribution of surface change tracking by photogrammetric means and DEM processing to physically based landslide susceptibility analysis	Victor Garzon: Centro de Geologia FCUL, Portugal
15:40	Use of SAR imagery for geohazards and damage assessment in urban sites and heritage assets: where we are and development perspectives	Deodato Tapete: University of Durham, UK
16:00-16:30	Coffee Break 2	
PM2	New Processing Techniques	Session Chair: Dietmar Backes (UCL)
16:30	Illumination insensitive image matching for terrain related applications	Xue Wan: Imperial College, UK
16:50	Spectral feature mapping: a new way to interpret mineral spectra	Neil Pendock: Geospectral Imaging, South Africa
17:10	QUANTOOLS: new tools for mineral mapping using high resolution data	Veronika Kopackova: Czech Geological Survey
17:30	Reflectance processing for extended spectral satellite imagery	Gary Crews: Spatial Energy, USA
17:50	Better Sensors = Better Imagery = Better Outputs	Dr Mike Smith: University of Kingston, UK
18:10	Walk to ROSL (Royal Overseas League)	
18:30	Conference dinner (Ticketed event) <i>Sponsored by Airbus – Defence & Space</i> Welcome drinks at 18:30; Dinner starts at 19:30	Royal Overseas League

Day 3 – Wednesday 17th December 2014

08:30-09:00	Registration & Coffee	
09:00	Welcome	Welcome : GRSG Chairman: Luke Bateson
AM1	Engineering Applications	Session Chair: Jason Manning (Arup)
09:10	Keynote: "It's not rocket science"- getting the best out of remote sensing data for engineering applications	Jason Manning: Arup, UK
9:50	Improvements in underground tunnel monitoring with high resolution InSAR: new case studies	Chiara Giannico: TRE, Italy
10:10	How advances in remote sensing is changing the way engineering geologists work, or not.	Dr Andrew Hart: Atkins, UK
10:30	Assessing the effectiveness of remote sensing techniques for mine entry inspections	Phil Broughton: Coal Authority, UK
10:50-11:20	Coffee Break 1	
AM2	Geological Mapping 2	Session Chair: Charlotte Bishop (NPA)
11:20	Early case studies on geologic applications enabled by SWIR bands on the WorldView-3 satellite	Gary Crews Spatial Energy, USA (on behalf of Bill Baugh DigitalGlobe)
11:40	High resolution, ground based, terrestrial laser scanner and hyperspectral imaging of geological outcrops	Shuhab Khan PhD: University of Houston, USA
12:00	Discriminating geological differences in the Kruger National Park, South Africa using segmentation of vegetation cover on Landsat TM imagery	Chris Munyati: North West University, South Africa
12:20	On top of the World: A unique mission covering Mount Everest from a Stemme powered glider in 3D with the airborne high altitude camera system MACS - Himalaya	Tilman Bucher: DLR, Germany
12:40-13:40	Lunch (+ poster session + exhibition) <i>Sponsored by Itres</i>	
PM1	Mineral Exploration	Session Chair: Dan Taranik (Exploration Mapping)
13:40	Keynote: The first quarter: 25 year history of mineral exploration remote sensing	Dan Taranik: Exploration Mapping, USA
14:20	Mapping and monitoring the earth using ASTER mineral information	Tom Cudahy: CSIRO, Australia
14:40	Mineral mapping of Makhtesh Ramon in Israel using hyperspectral remote sensing imagery in the VNIR-SWIR and LWIR regions	Prof. Eyal Ben Dor: Tel Aviv University, Israel
15:00	Exploration of small scale hydrothermal alteration in Iceland using spectral unmixing techniques	Jennifer Harris: Birkbeck College, UK
15:20-15:50	Coffee Break 2	
PM2	Hyperspectral	Session Chair: Micky Brown (Mappa Mundi)
15:50	Mine waste mapping with spaceborne multispectral and hyperspectral sensors in south Africa and Europe New application to the EnMAP and Sensitel-2 mission	Christian Mielke: GFZ Potsdam University, Germany
16:10	Geological mapping in Antarctica using airborne hyperspectral data	Martin Black: University of Hull/BAS, UK
16:30	Automated spectral matching in Hyperion images to estimate the grades of iron ore, limestone and magnesite deposits of India	Padma. S: Anna University Chennai, India
16:50	Characterisation of the transvaal banded iron formation of South Africa by reflectance spectroscopy from 0.4-15 µm	Dr Michaela Frei: BGR, Germany
17:10	Conference Closing Remarks	

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