

**9<sup>th</sup> December 2018: RAF Museum visit ~3pm (free to attend, registration required) & Icebreaker Reception, Glassblower Pub, Glasshouse Street from 18.00 (cash bar)**

<b>Day 1: 10<sup>th</sup> December 2018</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
<b>8.30</b>	<b>Registration Opens</b>	
9.30	Welcome and Introduction	Charlotte Bishop, KSAT & GRSG Chairman
9.45	<i>Keynote: Title TBC</i>	Jeremy Wrathall – Cornish Lithium, UK
<b>Oil&amp;Gas 1 - Chair: Nick Kellerman, Shell</b>		
10.15	Tectonic Geomorphology and Structure of the Chew Bahir Hard-linked Rift Basin, Ethiopia and Kenya	Martin Insley -Tullow Oil, UK
10.35	Detection of Petroleum Hydrocarbons in Mixtures with Mineral Substrates Using Thermal Infrared Hyperspectral Airborne Imagery	Rebecca Scafutto – UNICAMP, Brazil
<b>10.55-11.25</b>	<b>Coffee – Exhibition &amp; Posters</b>	
<b>New Technology, Applications and Innovations 1 - Chair: Marc Goossens, Geosense</b>		
11.25	EnVision: Earth Observation at Venus	Richard Ghail – Imperial College, UK
11.45	An Inter-Comparison and Rigorous Analysis of UAV and Manned Airborne Hyperspectral Imagers	George Le Blanc – NRC, Canada
12.05	Uses of free geoinformatics for disaster risk reduction in Pacific small-island developing states (SIDS)	Richard Teeuw – Uni. Portsmouth, UK
12:25	Leveraging PCI technology to prepare Analysis Ready Data and integration with the Open Data Cube – Replicable and consistent processing for multi-temporal, multi-sensor analysis	Stewart Wyseman – PCI Geomatics, Canada
<b>12.45 – 14:15</b>	<b>Lunch + Exhibition + Posters + Demonstrations + DigitalGlobe, Airbus and Analytik demos</b>	
<b>Mineral Exploration 1 – Chair: Dave Coulter, Overhill Imaging</b>		
14.15	WorldView 3 : Evaluation of its mineral mapping capability at Rodalquilar, Spain	Rob Hewson – Uni. Twente, Netherlands
14.35	Delineating Hydrothermal Alteration Zones in the Ih-Ulzit Area, Mongolia by Using ASTER Data	Yasushi Yamaguchi – University of Nagoya, Japan
14.55	Alunite to Buddingtonite, separating different rocks with similar spectra using WorldView-3 Short-Wave Infrared Imagery	Alex Gow – Digitalglobe, UK
<b>15.15 - 15.45</b>	<b>Coffee – Exhibition &amp; Posters</b>	
<b>Geological Mapping – Chair: Charlotte Bishop, KSAT</b>		
15.45	Newly derived satellite-altimetry gravity enlightens the geological mapping of the African Great Lakes	Kirsten Fletcher – Getech, UK
16.05	Slope Maps of Mountainous Volcanic Islands, Coupled With Ground Observations, Reveal Volcanic And Non- Volcanic Risks	Michael Mickson – Uni Birkbeck, UK
<b>16.25</b>	<b>AGM, update, open discussion (All delegates)</b>	
<b>17.30</b>	<b>Wine Reception – Geological Society Lower Library (Included in Delegate Entry)</b>	

<b>Day 2: 11<sup>th</sup> December 2018</b>		
<b>Time</b>	<b>Title</b>	<b>Author</b>
<b>8.30</b>	<b>Registration Opens</b>	
9.30	Welcome and Introduction	Charlotte Bishop, KSAT & GRSG Chairman
9.40	<i>Keynote: Multi-scale Integrated Spectral Geology and Remote Sensing Application for Mineral Exploration</i>	Xiaodong Zhou – Consultant, Canada
<b>Mineral Exploration 2 – Chair: Carlos Roberto Souza Filho, UNICAMP</b>		
10.10	Potential of spectral-spatial classification techniques for quantitative mapping of Arctic mineral resources using airborne and spaceborne remote sensing data	Sara Salehi – GEUS, Denmark
10.30	Mineral Exploration: From satellites to the field	Mark Broadley – CGG NPA, UK
<b>10.50 - 11.20</b>	<b>Coffee – Exhibition &amp; Posters + Hyspex</b>	
<b>InSAR &amp; Geohazards – Chair: Tom Gmerek</b>		
11.20	Polarimetric determination of Land Cover and Soil Moisture Content for aid in InSAR analysis	Stewart Agar – Imperial College, UK
11.40	Current State of the PSI-based German Ground Motion Service	Thomas Lege - BGR, Germany
12.00	Using InSAR for Upstream Oil & Gas: Reservoir Optimization and EHS	Malcolm Allan – SkyGeo, USA
<b>12.20 - 13.50</b>	<b>Lunch + Exhibition + Posters + Demonstrations + Introduction to Python Image Processing (lead by Andrew Cutts)</b>	
<b>New Technology, Applications and Innovations 2 - Chair: Matt Webster, WSP</b>		
13.50	Satellite Monitoring of Fugitive Methane Emissions	Jean-Francois Gauthier – GHGSat, Canada
14:10	Open Source DInSAR Processing for Sentinel-1 data using ESA SNAP	Vivek Agarwal – Uni. Nottingham, UK
14.30	An Automated method for detecting oil seepage in the Black Sea using Sentinel-1	Cristina Vrinceanu, Nottingham Geospatial Institute, UK
14.50	Overview and Status of the IEEE P4001 Hyperspectral Standards Working Group	Oliver Weatherbee – SpectIR, USA
<b>15:10 - 15.40</b>	<b>Coffee – Exhibition &amp; Posters + Spectral Evolution</b>	
<b>Oil&amp;Gas 2 – Chair: Alasdair Kyle, Airbus</b>		
15:40	From Oil to Energy: Where does Geology and Remote Sensing fit in?	Nick Kellerman – Shell, UK
16:00	Measuring Hydrocarbon features in Coal with High Resolution Spectroscopy	Lori Shelton – Spectral Evolution, Canada
16.20	Microseepage characterization using close-range spectroscopy and multi-source satellite remote sensing data: a case study from Qom region, Iran	Saeid Asadzadeh – UNICAMP, Brazil

16.40	RapidFire Session!	Charlotte Bishop as MC
18.30	Conference Dinner Churchill War Rooms from 7.30 (additional Charge)	

<b>Day 3: 12<sup>th</sup> December 2018</b>		
<b>Time</b>	<b>Title</b>	<b>Author</b>
<b>9.00</b>	<b>Registration Opens</b>	
9.30	Welcome and Introduction	Charlotte Bishop, KSAT & GRSG Chairman
9.40	<i>Keynote: Remote and direct measurements in the deep sea: A new view of seafloor hazards and their consequences using emerging technology</i>	<i>Mike Clare – National Oceanographic Centre, UK</i>
<b>InSAR &amp; Geohazards 2 – Chair: Malcolm Allan, SkyGeo</b>		
10.10	Cliff collapses monitoring with InSAR data	Gosia Mider – Imperial College, UK
10.30	Inferring Local Displacement from Multi-Temporal Interferometry in Southern Iceland	Jirathana Dittrich – Uni. Salzburg, Austria
<b>10.50-11.20</b>	<b>Coffee – Exhibition &amp; Posters</b>	
<b>Mineral Exploration 3 – Chair: Xiaodong Zhou, Consultant</b>		
11.20	Mapping in-depth lithium brines from space: Project Lithium overview	Cristian Rossi – Satellite Applications Catapult, UK
11.40	Hyperspectral Remote Sensing in the Western Belt of the Postmasburg Manganese-Field, South Africa	Anne Blumberg – BGR, Germany
12.00	Hindsight for brownfields exploration: using satellite thermal to map Roman mines	Tom Gmerek – Hindsight Exploration
<b>12.20-13.20</b>	<b>Lunch</b>	
<b>Mapping Techniques – Chair: Xu Teo, Earth-i</b>		
13.20	Using Sentinel-2 data to monitor seasonal changes in Acid Mine Drainage	Veronika Kopackova – Czech Geological Survey
13.40	Multi-Mission Optical & SAR: The Value, The Potential, The Future	Charlotte Bishop, KSAT
14.00	InSAR as a monitoring tool for the Tideway East Tunnel, verified with traditional ground surveying	Jennifer Scoular – Imperial College, UK
14.20	Merging VHR optical satellite imagery with drone data; A high-resolution DEM for Tristan da Cunha	Dietmar Backes – Uni. Luxemburg, Luxemburg
14.40	Summary and Wrap up	Charlotte Bishop, GRSG Chairman
<b>15.00</b>	<b>Technical Conference Close</b>	
	<b>Afterglow: Glassblower pub, Glasshouse Street</b>	