

ARSF Workshop Timetable

Rothley and Oakham Suite, John Foster Hall
Manor Road, Oadby, Leicester, LE2 2LG, UK

Monday, 7th September 2009

12:00 Buffet lunch (served in John Foster Hall Dining Room)

13:00 An introduction to the NERC ARSF
Gary Llewellyn and Carl Joseph

Session 1: part 1 (summary and promotion of full presentations at RSPSoc 09)

13:30 Biomass fractions estimations for a Mediterranean forest in Central Spain from ALS data

*Mariano Garcia*¹, David Riaño², Emilio Chuvieco¹ and F. Mark Danson³

¹Departamento de Geografía, Universidad de Alcalá, Facultad de Filosofía y Letras, Calle Colegios 2, España; ²Institute of Economics and Geography, Spanish National Research Council (CSIC), Spain; ³School of Environment and Life Sciences, University of Salford. Email for correspondence: mariano.garcia@uah.es

13:40 Characterising phenological changes in UK forests using multi-temporal laser scanning

F. Alberto Ramirez, Richard P. Armitage, F. Mark Danson and Vishal Bandugula

Centre for Environmental Systems Research, School of Environment and Life Sciences, University of Salford.

Email for correspondence: f.a.ramirezcardozo@pgr.salford.ac.uk

13:50 Hyperspectral remote sensing for measuring fuel moisture content: case study for fire risk assessment in the UK

T. Almoustafa, Richard P. Armitage, F and Mark Danson

Centre for Environmental Systems Research, School of Environment and Life Sciences, University of Salford.

Email for correspondence: t.a.almoustafa@pgr.salford.ac.uk

Session 1: part 2

- 14:00 Monitoring mass populations of toxic cyanobacteria using remote sensing**
Peter Hunter
School of Biological and Environmental Science, University of Stirling
Email for correspondence: p.d.hunter@stir.ac.uk
- 14:20 Monitoring the ecological impacts of managed realignment using multispectral remote sensing**
Daniel Friess¹, Geoff Smith², Tom Spencer¹ and Iris Möller¹
¹ Cambridge Coastal Research Unit, Department of Geography, University of Cambridge; ² Specto-Natura Ltd.
Email for correspondence: df256@hermes.cam.ac.uk
- 14:40 Assessing the distribution and abundance of a keystone riparian macrophyte: impacts of swan grazing and consequences for Salmonid conservation**
Ross Hill
Centre for Conservation Ecology & Environmental Change, Bournemouth University
Email for correspondence: rhill@bournemouth.ac.uk
- 15:00 Coffee / tea break**

Session 2

- 15:30 Using airborne remote sensing to evaluate the effects of arable farming on habitat structure and biodiversity at a landscape-scale**
Shelley A. Hinsley¹, Ross A. Hill², Richard K. Broughton¹, John W. Redhead¹, Paul E. Bellamy^{1,3}, Matthew S. Heard¹ and Richard F. Pywell¹
¹CEH Wallingford; ²School of Conservation Sciences, Bournemouth University; ³RSPB
Email for correspondence: sahi@ceh.ac.uk
- 15:50 The utility of wavelets for the analysis of hyperspectral aerial images acquired under sub optimal conditions**
Bernardus F. Spies¹, Caroline Nichol¹ and Alasdair Mac Arthur²
¹ School of Geosciences, Grant Institute, University of Edinburgh
² NERC Field Spectroscopy Facility, School of Geosciences, University of Edinburgh
Email for correspondence: alasdair.macarthur@ed.ac.uk
- 16:10 Debris flows on Earth and Mars**
S.J. Conway¹, A. Decaulne², M.R. Balme¹, J.B. Murray¹ and M.C. Towner³
¹ Planetary Surfaces Research Team, Dept. of Earth & Environmental Sciences, Open University; ² CNRS UMR6042 Geolab, University Blaise Pascal; ³ Department of Earth Science and Engineering, Imperial College London
Email for correspondence: s.j.conway@open.ac.uk
- 16:30 From ASCII files to orthophotos: The processing of ARSF data using Open Source tools**
John Stevenson
School of Earth, Atmospheric and Environmental Sciences, University of Manchester
Email for correspondence: SBG@nerc.ac.uk

16:50 Break

Session 3

17:10 Validating MTCI with airborne data

*Doreen Boyd*¹, *Jadu Dash*² and *Sam Almond*³

¹ Department of Geography, University of Nottingham; ² School of Geography, University of Southampton; ³ Centre for Conservation Ecology & Environmental Change, Bournemouth University.

Email for correspondence: doreen.boyd@nottingham.ac.uk

17:30 Testing hyperspectral remote sensing monitoring techniques for geological CO₂ storage at natural seeps

Luke Bateson, *Jonathan Pearce* and *Claire Fleming*

British Geological Survey

Email for correspondence: lbateson@bgs.ac.uk

18:00 Close

19.00 BBQ
Stamford Hall, Oadby, Leicester

Tuesday, 8th September 2009

- 09:10 ARSF Data and Services at the NEODC**
Jurgen Reinecke and Victoria Bennet
NERC Earth Observation Data Centre
Email for correspondence: jurgen.reinecke@stfc.ac.uk
- 09:30 Complimentary spectral data gathered in the field (FSF)**
Alistair MacArthur
NERC Field Spectroscopy Facility, School of Geosciences, University of Edinburgh
Email for correspondence: fsf@nerc.ac.uk
- 10:00 ARSF-data analysis**
TBA
ARSF-Data Analysis Node
Email for correspondence: arsf-processing@pml.ac.uk
- 10:30 Coffee / tea break**
- 11:00 Leica Geosystems' full-wave form LiDAR**
Kenneth Smillie
Leica Geosystems
Email for correspondence: kenneth.smillie@leica-geosystems.com
- 11:30 What do you want from the NERC ARSF?**
Gary Llewellyn
- 11:50 Summary and conclusion**
Gary Llewellyn
- 12:00 Buffet lunch (served in John Foster Hall Dining Room)**
- 12:50 Make way over to Gilbery Murray Main Hall for start of RSPSoc2009 (if you have registered for the meeting).**