



Recent Work in Archaeological Geophysics

The Geological Society
Burlington House, Piccadilly, London W1J 0BG
Tuesday 2nd December 2014

Provisional Programme

Lecture Programme:

- 0915-1000 **Registration and Coffee**
- 1000-1005 **Introduction**
- 1005-1020 *Geophysical detection and characterisation of a potential 1349AD 'Black Death' emergency cemetery in Central London, UK. H C Dick, J Pringle, B Sloane, J Carver, D Roberts, S Aldridge, M Giubertoni and S Porter*
- 1025-1040 *Tally Ho! Recovery of a Spitfire using an integrated approach. P Masters and R Osgood*
- 1045-1100 *Fountains Abbey: A Re-survey and New Interpretations Within the World Heritage Site. C Gaffney, C Harris, M Newman, M Langton and R Walker*
- 1105-1120 *Sensing the Iron Age and Roman Past: Geophysics and the Archaeology of Hertfordshire. K Lockyear*
- 1125-1155 **Tea/Coffee break**
- 1155-1210 *Model-based inversion of magnetometer data in support of archaeological interpretation: the Raganello Archaeological Project. A Schmidt, K Armstrong, W de Neef and M van Leusen*
- 1215-1230 *Underwater cultural heritage preservation: Waterlogged archaeological wood ultrasonic properties for in situ evaluation method A Zisi*
- 1235-1250 *ArchaeoPY: Constructing and Utilising Open Source Software for Archaeological Geophysics. F Pope-Carter, C Harris, T Sparrow and C Gaffney*
- 1255-1300 **Morning closing remarks**

- 1300-1430 **Lunch (Lower Library)** – all delegates
NSGG AGM (Lecture Theatre) – open to all Geological Society members.
- 1430-1445 *Geophysical Surveys for Palaeo-environmental Reconstruction in the Transition Zone.* R Bates and M Bates
- 1450-1505 *NDT and Geo-Archaeology in Italy: could interdisciplinarity be a solution?* P M Barone and C Ferrara
- 1510-1525 *Using geophysical survey in the archaeological characterisation of uplands: a case study from the later prehistoric landscape of the Yorkshire Dales.* M K Saunders, I Armit and C Gaffney
- 1530-1600 **Tea/Coffee break**
- 1600-1615 *Magnetic Susceptibility Mapping with the Geonics EM38B Electromagnetic Susceptibility/Conductivity Meter to Locate and Map Archaeological Sites.* D McNeill, J Fowler, R Ferguson, R Duggan and S Beanlands
- 1620-1635 *The Canterbury Hinterland Project: Multi-Method Geophysical Investigation of a Roman Enclosure at Bourne Park (With the Emphasis on the GPR Survey).* L Verdonck, L Wallace, A Mullen and P Johnson
- 1640-1655 *Recent Surveys at Saruq Al-Hadid, Dubai, United Arab Emirates.* D Hale and R Villis
- 1700-1715 *Mary, Mary, quite unwary, what could your garden geophysical survey show?* P Cheetham
- 1720-1730 **Conclusion**
- 1735-1900 **ISAP AGM (Lecture Theatre)**

Posters (09:30-19:00 in the Lower Library):

Prospecting the location of the Gessel Hoard – the Bronze Age gold discovery from Syke, Lower Saxony, Germany. C Schweitzer

The same old seasonal issue? A time-lapse investigation into the changing resistivity of archaeological soils in-situ. R Fry, C Gaffney, C Batt and A Beck

The Roman Countryside of Northwestern Noricum. L Kühne, J W E Fassbinder, R Linck and F Becker

Searching for Scandinavians: a multidisciplinary investigation at Torksey, Lincolnshire. H Brown

Locating and Delimiting Iron Age and Early Medieval Settlement Sites in Norway by Mapping Topsoil Magnetic Susceptibility. A A Stamnes

CartEasy^N –Moving from 2D tiles to three-dimensional data collection and analysis in magnetometry. F Pope-Carter, G Attwood, C Gaffney and J Gater

GPR approaches in revealing the urban planning of ancient Mantinea. A Sarris, M Manataki, J C Donati, C Cuenca-García, T Kalayci, F Simon and N Papadopoulos

Comparative measurements with Ferex fluxgate and Scintrex SM4G caesium magnetometers on archaeological sites in Bavaria. S Manoli, P Smid and J W E Fassbinder

The Absent Line of Sight and other Survey Lessons from Westminster Abbey - a Final Chapter in a Comprehensive Church Survey. E Carrick Utsi

Electrical Resistivity Tomographies in shallow water marine environment for detecting archaeological targets. K Simyrdanis, N Papadopoulos and J-H Kim

Geophysical Explorations at ancient Onchestos, Boeotia, central Greece. N Papadopoulos, I Mylonopoulos, K Simirdanis and S Kirkou

MALÅ “Mini” MIRA (MALÅ Imaging Radar Array) Experiences. J Adcock

New findings following the magnetic survey of the port city of Berenike on the Red Sea coast in Egypt (PCMA UW–University of Delaware project). T Herbich and I Zych

LEA MAX – from now on a multi-sensor array for diverse types of magnetic gradiometers. C Meyer

Stamp collecting or diagnostic advancement? A vision for landscape survey. M Roseveare, A Roseveare, R Fry, S Purvis and D Rouse

Evidencing the part of dielectric permittivity in the in-phase EMI response: an example in Bahrain. C Benech, F Rejiba, A Tabbagh and P Lombard

A Walk Through the Lilliput Farm Barrows. O Stanley, J Oswin and R Buettner

Archaeological Geophysics and Precision Farming. H Webber

Commercial Exhibitors (09:30-19:00 in the Lower Library):

Allied Associates Geophysical Ltd

Geomatrix Ltd

Bartington Instruments Ltd

Geoscan Research Ltd

DW Consulting

Sensys Gmbh