

RECENT WORK IN ARCHAEOLOGICAL GEOPHYSICS

GEOLOGICAL SOCIETY

BURLINGTON HOUSE, LONDON, 19 DECEMBER 2006

Lecture Programme:

- 0930-1000 Registration and Coffee.
- 1000-1005 Introduction.
- 1005-1025 *Magnetic surveying of the archaeological sites in the Nile Delta, Egypt.* Tomasz Herbich.
- 1030-1050 *The Corridor of the Great Hunting Scene, Villa del Casale (Piazza Armerina)* P.L. Cosentino, P. Capizzi, G. Fiandaca, G. Graziano, R. Martorana, P. Messina, L. Pellegrino, I. Razo Amoroz, E. Scalone.
- 1055-1115 *Survey on Rome's Northern Frontier: results from the Antonine Wall.* Richard Jones, Alan Leslie and Chris Nelson.
- 1120-1150 Coffee
- 1150-1210 *Seabed Prehistory.* Louise Tizzard.
- 1215-1235 *Wrecks on the Seabed.* Paul Baggaley.
- 1240-1300 *Underwater GPR.* Alastair Ruffell.
- 1305-1420 Lunch
- 1420-1440 *Hod Hill Reappraised – A multi-method geophysical analysis to assess the effects plough damage and implications for the investigation of hillfort settlement zonation using magnetic methods.* Dave Stewart and Paul Cheetham.
- 1445-1505 *A SQUID-based system for fast and sensitive geomagnetic archaeometry.* Volkmar Schultze, Sven Linzen, Tim Schüler, Andreas Chwala, Ronny Stolz, Marco Schulz, Hans-Georg Meyer.
- 1510-1530 *Ground penetrating radar for multi-hectare archaeological prospection.* Tim Archer.
- 1535-1605 Tea

- 1605-1625 *Slack Roman Fort: Making sense of magnetic noise:* Armin Schmidt, Rob Vernon, Roger Walker, Lieven Verdonck and Arnold Aspinall.
- 1630-1650 *Geophysical Investigation 17th Century Copper Workings at Levers Water Mine, Cumbria, UK:* Jack Walpole, Phil Meredith & Ruth Siddall.
- 1655-1715 *Buckingham – Holyroodhouse – Windsor. Investigations at three Royal Palaces:* GSB Prospection and Geoscan Research.
- 1720-1740 *It's been a long walk - 1000 hectares of magnetic surveying in the Vale of Pickering:* James Lyall.
- 1745 Conclusion
- 1800 End
- 1800-1900 ISAP AGM

Posters:

In the Shadow of the Hill: Geophysical investigations of the environs and moat area of the prehistoric mound at Silbury Hill: Neil Linford, Paul Linford, Louise Martin and Andrew Payne.

A ground penetrating radar survey at Gayton Thorpe, Norfolk: Tim Dennis, M de Bootman, J Simmons and J Shepherd.

Where is It? Using Multiple Geophysical Techniques and GIS Data Enhancement in the Search for a 18th Century Paper Mill, Lisburn, N.Ireland: Paul McCarthy, Alastair Ruffell, Steve Trick, Lorraine Barry, Alison Muir, John McKinley, Jennifer McKinley.

Improving definition: GPR investigations at Westminster Abbey: Erica Utsi.

Electrical Fast Imaging for Wide Areas, Test Over an Archaeological Site and Application Over a 50ha Site (in less than a month). M. Dabas, A. Favard.

Using multi-sensor surveys for archaeological applications: case studies using different sensors, and different survey modes: Ian Hill and Chris Leech.

Geophysical prospection at the Pre-Roman site of Satricum (central Italy): the multi-scale applications of electrical resistivity tomography for geo-archaeological investigations: R Abdul Fattah.

The Greenhouse Effect: the addition of nutrients to clay soils and its Influence on resistivity survey: Michiel Dekker

Intra-site Magnetic Susceptibility - survey of a Herefordshire Enigma: Martin and Anne Roseveare

Ground Penetrating Radar in Urban Areas - Friars Lane, Great Yarmouth: Ken Hamilton

Three-Dimensional, Multi-Offset GPR Imaging of Archaeological Targets: Groundwell Ridge, Swindon: Adam Booth

Magnetometry Near the Equator. Jorg Fassbinder et al.

Commercial displays:

Allied Associates Geophysical Ltd.

Geoscan Research Ltd.

Stratascan Ltd.

Geomatrix Earth Science Ltd.

Attendance at the Meeting will be free to members of the Geological Society and JAG. All others must pay an entrance fee of £20.00 (£10.00 for students). For those wishing to attend the subsequent day's meeting on *Geoscientists at Crime Scenes* the fees for both days will be £30 (£20 for students). Lunch is provided for speakers only.

Whilst it is possible to turn up on either day and pay at the door, we'd encourage people to register in advance using the attached form, please.

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