



Environmental & Criminal Forensics

Geological Society of London
Burlington House, Piccadilly, London
16th December 2010

Programme

- 09.00-09.45** **Registration and Coffee**
- 09.45-09.50 Introduction and welcome
- 09.50-10.10 The use of geophysical techniques to detect buried metallic weapons – a comparative study of differing environments. *T. Richardson and P.N. Cheetham*
- 10.10-10.30 Accuracy in assessment: Integrated dGPS, ERI and GPR evaluation of illegal waste burial, NE Ireland, UK. *A. Ruffell, J.K. Pringle, & C. Graham*
- 10.30-10.50 Establishing forensic search protocols for detection of clandestine burials within coastal environments *C. Holland, J.K. Pringle, K. Szkornik, & M. Harrison*
- 10.50-11.10 Forensic geology investigations following the discovery of the Staffordshire (Anglo Saxon gold) hoard. *L. Donnelly*
- 11.10-11.40** **Coffee**
- 11.40-12.00 Quality standards for forensic science. *A. Rennison*
- 12.00-12.20 Lichen transplant monitoring for source apportionment of atmospheric particulates around the Cu smelter and former mining town of Karabash, Russia. *B.J. Williamson, O.W. Purvis, I.N. Mikhailova, B. Spiro and V. Udachin*
- 12.20-12.40 Dust dispersion modelling around a hazardous waste landfill site, Gloucestershire, UK. *B. Williams, D. Giles, M. Fowler and H. Datson*
- 12.40-13.00 Dust analysis as an investigative tool: A case history. *S. Palenik*
- 13.00-14.00** **Lunch and Posters**

- 14.00-14.20 A tree ring record of environmental contamination – emissions from the Palmerton, PA, USA, New Jersey zinc smelter. *N. Eby.*
- 14.20-14.40 Ion beam analysis – A new tool for geoforensics. *M. Bailey, R. Morgan, P. Comini and P. Bull*
- 14.40-15.00 Provenance, environment and energy regimes utilising quartz grains in forensic reconstruction, *R.M. Morgan, A. Newell, L. Griffin, J.F. Marshall and P.A. Bull*
- 15.00-15.30 Tea**
- 15.30-15.50 The continued risk to health from historic mining; a case study into arsenic poisoning in Cornwall UK. *D. Pirrie, M.R. Power and A. Coloff*
- 15.50-16.10 Forensic geology in environmental crime: Four case studies. *L. Dawson & A. Ruffell*
- 16.10-16.30 How useful are databases for Environmental Forensics? *J. McKinley*
- 16.30-16.45 Discussion and close

Posters

Archaeologically informed forensic search techniques: Towards an open discussion - the case of winthroping. *N. Humphrey, P. Masters, & K. Harrison*

Heavy minerals identification using micro-Raman spectroscopy analysis *A. Guedes, R. Lamas, S. Leal, A. Rodrigues, B. Valentim & F. Noronha*

Characterization of a river beach (Portugal): a multidisciplinary approach for forensic investigation. *Á. Carvalho, H. Ribeiro, A. Guedes, I. Abreu & F. Noronha*

Geoforensic analysis in a case of damage to graves. *R.M. Di Maggio & L. Nuccetelli*

Graveyard and burial vault locations: re-use of existing burial grounds. *J.D. Hansen, J.K. Pringle, J. Goodwin, J.P. Cassella & R. Cramp*

Medium-term geophysical monitoring of simulated clandestine burials: implications for forensic searches. *J.K. Pringle, J.R. Jervis, J.D. Hansen, J.P. Cassella, N.J. Cassidy, G. Jones & G.W. Tuckwell*

Magnetic susceptibility as a tool for forensic soil examinations. Alexandra Guedes, Raymond C. Murray, Helena Ribeiro, Helena Sant'Ovaia, Bruno Valentim, Andreia Rodrigues, Sara Leal, Fernando Noronha