

Forensic Geoscience: Future Horizons

Timetable

09.20-09.30	Welcome
09:30-09:45	Aelf Sampson (Durham Constabulary): "Soil information in search and as evidence in the case of missing person Pamela Jackson."
09:45-10:00	Kirstie Scott (UCL): "The forensic implications of diatom seasonality: directing a new technique for the ecological assessment of trace evidence in forensic geoscience."
10:00-10:15	Helen Chick (University of Hull): "The mineral signature from soil adhering to footwear at multiple sites and its implications for establishing provenance."
10:15-10:30	Brenda Woods (Australian Federal Police/University of Canberra): "An examination procedure for forensic soil analysis in trace evidence laboratories"
10:30-10:45	Elisa Bergslien (SUNY Buffalo State): "Small scale spatial variability of soil in a managed urban environment."
10.45-11.00	Lorna Dawson (The James Hutton Institute): "The development and validation of microbial soil community analyses for forensic purposes."
11.00-11.30 (Poster session)	Break (30 mins) <ul style="list-style-type: none"> ● Aoife Dudley (University of Oxford): "Large oval enclosure in Wessex: how geophysics has revealed the complexity of these enclosures." ● Alexandra Guedes (Universidade do Porto): "Identification of soil components by Raman microspectroscopy." ● Duncan Pirrie (Helford Geoscience LLP): TBC ● Veerle Vanderginste (Imperial College London): "The application of handheld X-ray fluorescence spectrometry in geoforensics."
11:30-11:45	Beth Wilks (UCL): "An experimental study on the application of geoforensic techniques to the exploitation of Improvised Explosive Devices (IEDs)."
11:45-12:00	Nelson Eby (University of Massachusetts): "Nuclear forensics: identification of post-detonation debris."
12:00-12:15	Sally Gamble (UCL): "Detection of explosives in the wastewater system: practical considerations for forensic intelligence."
12:15-12:30	Ekaterina Nesterina (Russian Federal Centre of Forensic Science): "Information about the atlas of small particles frequently encountered in soil traces in casework - in aid of geoforensics."
12:30-12:45	Kelly Cheshire (UCL): "Geochemical analysis in forensic science - interpretation considerations."
12.45-13.00	Shari Forbes (University of Technology Sydney): "Does probing a grave site enhance the decomposition odour available to cadaver-detection dogs?"
13.00-14.00	Lunch (1 hour)
14:00-14:15	Nadine Smit (UCL): "Using Bayesian networks to guide the interpretation of geological forensic evidence."
14:15-14:30	Duncan Pirrie (Helford Geoscience LLP): "Testing the efficiency of soil recovery from clothing."
14:30-14:45	Jennifer McKinley (Queen's University Belfast): "GIS and statistics: charting a new course for investigators."
14:45-15:00	Emily Norton (Bournemouth University): "Multi-temporal remote sensing of mass graves."
15.00-15.15	Pier Matteo Barone (Forensic Geoscience Italy/The American University of Rome): "Forensic GPR: explaining hyperbolas in the Italian courtroom."

15.15-15.45 (Poster session)	Break (30 mins) <ul style="list-style-type: none"> ● John Cassella (Staffordshire University): “Chemical markers for the detection of clandestine graves: development of complimentary techniques for forensic geophysics?” ● Amy Green (Bournemouth University): “Large oval enclosure in Wessex: how geophysics has revealed the complexity of these enclosures.” ● Daniel Roberts (Keele University): “Geophysical detection and analysis of the mass burial and clandestine graves within the Cementerio del Salvador, Oviedo, Spain.” ● Robert Vanderputten (Keele University): “Quantifying geophysical response of graves against burial age: electrical resistivity, magnetic susceptibility and GPR methods.”
15:45-16:00	Alastair Ruffell (Queen’s University Belfast): “Geological search methodology applied to two World War II sites.”
16:00-16:15	John Jervis (Keele University): “Seasonal variation in the resistivity response of three experimental graves.”
16:15-16:30	Erika Utsi (Utsi Electronics Ltd): “The use of Ground Penetrating Radar for clearance of forensic sites.”
16:30-16:45	Peter Masters (Cranfield University): “The application of geophysics in recovering the buried remains of clandestine burials.”
16:45-17:00	Christine Blackmore (Wardell Armstrong International Ltd): “Investigation and management of nomadic tribal graves during infrastructure construction at a gold mine in Mauritania.”
17.00-17.10	Closing