

One Day CPD event: Saturday 22<sup>nd</sup> October 2016

**Forensic Archaeology Case Study & CPD Workshop on RAG mapping  
for forensic search.**

Following on from the very successful event on the Chilean disappeared, the Forensic Archaeology Special Interest Group are pleased to announce the next event of 2016.

The next event is a combined forensic case study and workshop session and will be offered as a Continuing Professional Development training event.

For the forensic case study we are delighted to welcome Professor Mark Skinner and Ms Marilyn Sandford from British Columbia, Canada to present their work with regard to the Pickton farm multiple murder case. A summary of their session is outlined below.

For the afternoon session we offer a workshop on the use of RAG (Red Amber Green) mapping with two contrasting viewpoints.

The first presentation of the session will offer an overview of RAG mapping and a short practical workshop on its application to forensic search. The second presentation will explore how RAG mapping fits within forensic searches and the balance between it and other techniques.

This event is being organized by the Forensic Archaeology Special Interest Group or the Chartered Institute for Archaeologists (CIfA). The Chartered Institute is the professional body for archaeology and is recognized by both the Privy Council and by the UK Forensic Science Regulator. Non-corporate membership (student & affiliate) of the Chartered Institute is open to anyone interested in archaeology, and for those who can demonstrate competence within archaeology there are three increasing corporate grades of accreditation (Practitioner, Associate, Member). For more information on joining CIfA see [www.archaeologists.net](http://www.archaeologists.net).

Timetable:

11:00 – 13:15	<i>Case Study Session</i>
11:00 – 13:00	Prof. Mark Skinner & Ms. Marilyn Sandford Q. C. <b>Mountain of Evidence... Mountain of Guilt? Canada's Pig Farm Serial Homicides</b>
13:00 – 13:15	Discussion
13:15 – 14:15	<i>Lunch Break</i>
13:15 – 13:30	Forensic Archaeology Expert Panel meeting (members only)
14:15 -16:30	<i>Workshop Session:</i>
14:15 – 15:15	Dr Alastair Ruffell & Dr Laurance Donnelly <b>Workshop: RAG mapping for forensic search.</b>
15:15 – 15:45	Mr, Alastair Vannan <b>Forensic archaeology and RAG mapping: a human-centred approach to forensic landscape analysis.</b>
15:45 – 16:30	Discussion session.

## Booking your place

This event is provided free to members of the the Forensic Archaeology Special Interest Group, and for a nominal charge of £5 for non-members.

Numbers are limited by the venue and to manage numbers you will need to pre-book your place at the workshop.

To book your place at this event please email the group Honorary Secretary (Andy Holland) [Hollandarchaeology@gmail.com](mailto:Hollandarchaeology@gmail.com) (including "FASIG Event" in the subject line) ASAP.

In order to keep the cost of this event at a minimum, lunch is not being provided, however, there are venues both within the Richmond building and nearby where you can buy lunch and refreshments if needed.

## Venue:

The workshop will be held room C7 in the Richmond Building on the main city campus of the University of Bradford. There will be a reception and registration point at the entrance to the Richmond Building with directions to C7.

The Address for the University is:

University of Bradford,  
Richmond Road,  
Bradford,  
West Yorkshire.  
BD7 1DP

## Getting here:

The University of Bradford is located in the center of the city of Bradford.  
For details on how to get to here see the University of Bradford's website at:

[www.bradford.ac.uk/contact-and-find-us/](http://www.bradford.ac.uk/contact-and-find-us/)

Please note parking is very limit on the city campus. Details of alternative parking are available from the University website (above).

## Event Speakers

### **Prof. Mark Skinner**

Forensic Archaeologist & Emeritus Professor, University of York.

Professor Skinner began to assist the police and death investigative agencies in the Vancouver area in 1976. In 1982 he became Canada's first Diplomat of the American Board of Forensic Anthropology. Long an advocate of forensic archaeology he has worked in Afghanistan, East Timor, Bosnia, Croatia, Kosovo and Serbia on behalf of Physicians for Human Rights and the International Commission on Missing Persons. In 2004 he was Director of the Forensic Sciences program for ICMP. He retired from Simon Fraser University in 2011 as Professor emeritus; he now resides in York, U.K. devoting his research towards health in fossil and living apes.

### **Ms. Marilyn Sandford Q.C.**

Barrister & Solicitor, Vancouver, BC, Canada.

Marilyn Sandford Q.C. is a criminal defence lawyer who practices in Vancouver, British Columbia. A focus of her legal practice is large, complex cases. She was one of the team of lawyers who represented Robert Pickton on serial murder charges in what became known in Canada as the "Pig Farm" murder case. She had primary responsibility on the defence team for legal work associated with the forensic evidence in the case, including forensic pathology, tool marks, DNA, forensic anthropology, forensic odontology, chemistry, and crime scene reconstruction.

### **Dr Alastair Ruffell**

Forensic Geoscientist, Reader in Geology, School of Geography, Archaeology & Palaeoecology, Queen's University, Belfast, UK.

Alastair is a Reader at Queen's University, Belfast and works mainly on geoforensics, in two areas. First is the use of remote sensing and geophysics in searching the ground for toxic waste, human bodies or buried weapons/contraband in water and peat (wetlands). Second is the analysis of trace geological evidence for criminal investigations.

### **Dr Laurance Donnelly**

Forensic Geologist & Police Search Advisor. Associate Director, Arrup, Manchester, UK

Dr Donnelly is a Chartered Geologist, Chartered Scientist and a European Geologist. He has a First Class Honours Degree in Applied Geology and a PhD in Fault Reactivation. He has 27 years professional experience in forensic geology, mineral exploration, mining geology, mining hazards, engineering geology, geophysics, geomorphology and geohazards. Following completion of his PhD he was recruited by the British Geological Survey, where he spent about 10 years before transferring into Consultancy.

He has successfully completed geological investigations in several countries throughout Europe, Latin America & Caribbean, Asia, Australia, Africa, Middle East, Russia and CIS.

For approximately 20 years, he has provided advice to the Police and law enforcement organisations as a Forensic Geologist and Search Adviser. He has pioneered and developed new search strategies now used by the Police in the UK and internationally. This has involved designing, implementing and managing ground searches for graves, missing persons and other burials and advising on the geological (trace) evidence in cases related to homicide, terrorism and organised crime.

For the past 10 years he has been registered as an Expert Adviser with the National Crime Agency. Laurance works closely with the UK Police National Search Adviser, various PoISAs, PoISCs, Home Office Centre for Applied Science and Technology (CAST), Oak Ridge National Laboratory and The Body Farm' in Tennessee, USA.

He has delivered presentations on forensic geology, search and the Moors Murders at Westminster Palace, Houses of Parliament. He is also active in providing operational training, knowledge transfer programmes and collaboration in forensic geology to the UK Police, Colombian

Police, Australian Federal Police, FBI, Brazilian Federal Police, Abu Dhabi Police and the Russian Federal Centre of Forensic Science (RFCFS).

Laurance is the founder of the Forensic Geoscience Group, of the Geological Society of London and served as its first Chair. He is also the founder and current Chair of the International Union of Geological (IUGS), Initiative on Forensic Geology (IFG).

He has published one book and approximately 230 papers and articles in peer reviewed journals, conference proceedings, magazines and newspapers and delivered over 100 guest lectures' in the UK and world-wide.

Laurance is the recipient of prestigious international awards from the Russian Federal Centre of Forensic Science (RFCFS) of the Ministry of Justice of Russia, in Moscow; Geological Society of America, Geological Society of London Engineering Group, Geological Society of Forensic Geoscience Group and Institution of Mining and Metallurgy; in recognition of distinguished and outstanding contributions to the multi-disciplinary fields of applied geology and forensic geology.

### **Mr. Alastair Vannan**

Forensic Archaeologist, Cellmark Forensic Services, Chorley, UK

Alastair is the senior forensic archaeologist at Cellmark Forensic Services, and has extensive experience of the excavation and recovery of human remains from a variety of burial types and environments. He is a member (MCIfA) of the Chartered Institute for Archaeologists and of the Forensic Archaeology Expert Panel.

He is a specialist in landscape search and survey, and in the use of Geographic Information Systems (GIS) in spatial analyses and the definition of prioritised search areas. He undertakes forensic remote searches for clandestine burials and other indications of human activity utilising a diverse range of spatial data types. Alastair has developed a system for digital forensic archaeological spatial analysis, Cellmark's Search Assessment and Mapping Service (SAMS), and is the appointed Lead for this service. He teaches on the Cellmark Search and Survey course and is also regularly responsible for training archaeologists and professionals from other disciplines in techniques for search and excavation.

## Case Study information

The criminal investigation of serial murders of a large number of women, culminating in the trial of Robert Pickton on multiple counts of murder, represented the most complex criminal investigation in Canadian history.

The 17- acre farm at which Pickton resided became, commencing in 2002, the scene of a forensic investigation that was unparalleled in its scope. The forensic investigation included involving excavation of 1,000,000 cubic meters of soil, and examination of the contents by a 110-person team that included anthropology and archaeology students, forensic anthropologists, and tool mark experts.

Some 40,000 animal bones were recovered and analyzed. In addition, 125 Forensic Identification officers were involved in the search of the 10 structures and 53 vehicles and pieces of heavy equipment on the property. 132,000 photos were taken, 76,000 exhibits were seized, and 500,000 swabs were taken and analyzed for DNA. The search resulted in the recovery of partial human remains from the property.

In the resulting criminal trial of Pickton on murder charges, one central issue was the degree to which the expert opinions related to that evidence pointed a finger at the accused, Robert Pickton.

This presentation will provide a summary overview of the case, a description of the nature of the forensic processing of the property, and some of the unusual forensic issues that arose associated with the expert analyses of the remains.

The perspective presented is that of the defence, and the speakers will be one of Mr. Pickton's defence lawyers, Ms. Marilyn Sandford Q.C., and the forensic anthropologist who was retained to assist the defence, Dr. Mark Skinner