

Emma Jane Wilson
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Career Statement

A forensic scientist specialising in fire investigation with significant crime scene and court reporting experience gained with a major UK based forensic company.

I have good organisational skills and I am meticulous though efficient. I take pride in all the work I do and I work well under pressure. I possess excellent verbal and written communication skills and am able to relate to a wide range of people.

Career and Achievements

Prometheus Forensic Services

January 2012 to Present

As a founder and Director of Prometheus Forensic Services I provide Forensic Fire Investigation Services including:

- Attendance at fire and explosion scenes as part of a 24 hour cover 365 days a year.
- Attendance at a large number of fire scenes as both the primary and secondary investigator.
- Checking and peer reviewing a wide range of cases from other Prometheus investigators.
- Assessment and interpretation of professional and expert witness evidence.
- Attend case conferences with solicitors, barristers, police officers and other scientists.
- Joint investigations with other interested parties at scene and in laboratories.
- Report and statement preparation within defined timescales and the criteria expressed by the court system.
- Attend Court as an expert witness in all types of court in the UK and Internationally.
- Carrying out laboratory based casework including electrical appliance examination and testing, flammable liquid analysis interpretation, heat damage interpretation, smoke detector examination and temperature monitoring.
- Undertake cases throughout the UK and internationally.
- Working in asbestos contaminated fire scenes.
- Carrying out research independently and in corroboration with local universities.

Senior Reporting Officer

2005 to December 2011

Fire Investigation Unit, London Facility, Forensic Science Service Limited.

As a senior reporting officer specialising in fire investigation I carried out a wide variety of roles including:

- Attended fire and explosion scenes as part of a daily and out of hours on call rota.
- Examined many fire and explosion scenes and been the lead forensic investigator in many high profile complex cases such as the Lakanal House fire.
- Checked and peer reviewed a wide range of cases from other members of the fire investigation unit.
- Assessment and interpretation of professional and expert witness evidence.
- Advised customers about submissions, scene management and visits.
- Attended case conferences with police officers, other scientists and the Crown Prosecution Service.

- Attended Coroners Court, Magistrates Court and Crown Court as an expert witness.
- Carried out laboratory based casework including flammable liquid analysis, appliance testing, heat damage interpretation and temperature monitoring.
- Mentored an M.Sc Forensic Science student researching persistence of petrol on clothing.
- Conducted a project into the use of 7:1 foam by the UK Fire Services and the affects it has on flammable liquid detection.

Forensic Scientist

2003-2005

Toxicology Unit, London Laboratory, Forensic Science Service Limited

- Part of a toxicology casework team that carried out techniques to extract, unknown drugs from body fluid samples.

DNA Unit, London Laboratory, Forensic Science Service Limited

- Part of a DNA casework team that carried out techniques to extract, quantify and amplify DNA evidence from crime scenes using the STR SGM+ PCR reaction.

Professional Qualifications and Training

Professional

- Registered Expert Witness in Fire Investigation with the Sweet and Maxwell Expert Witness Directory 2012.
- Member of the Chartered Society of Forensic Sciences.
- Member of the UK-Association of Fire Investigators.
- Member of the International Association of Arson Investigators.
- Honorary Lecturer at University of Kent.

Qualifications

- M.Sc in Biomolecular Archaeology
- B.Sc (Hons) Medical Biochemistry

Training

- Over 2 years formal in-house fire investigation training.
- Risk Management at Scene of Crime Course Module 9 (Forensic Science Service, February 2005).
- Health and Safety Refresher Training Module 12 (Forensic Science Service, January 2005).
- Introduction of Biological and Chemical Hazards Course Module 3 (Forensic Science Service, May 2005).
- The Rashbash Lecture and ECD Conference (June 2005).
- Expert Witness Training (Forensic Science Service, October 2005).
- Annual Bond Solon Expert Witness Conference (November 2006).
- John DeHaan Fire and Explosion Investigation Course (September 2007).
- Deaths in Fire Think Murder Seminar (April 2008).
- New Scientist Seminar: Fire Investigation of the ENFSI Fire and Explosion Investigation Working Group (July 2008).
- GCMS Operation (Forensic Science Service, Analytical Unit, August 2008).
- Fundamentals of GC-MS Course (Agilent Technologies, December 2008).
- GC-MS Interpretation Course (Forensic Science Service, February 2009).
- Principles of Electrical Fires Short Course (Vytenis Babrauskas July 2010).
- IAAI Training Conference (January 2011 and 2012).
- Photovoltaic Systems in Fires (KFRS May 2013).
- Chartered Society of Forensic Sciences Fire Investigation Conference (2015).
- Asbestos awareness and working with asbestos (Annually renewed since 2014).
- UK-AFI Training Conference (2016).

References and Case list available on request