



The  
Chartered  
Society of  
Forensic  
Sciences

The Chartered Society of Forensic Sciences Autumn Conference, AGM  
& Annual Awards Dinner

# The value of forensic science: safer, healthier, wealthier and happier communities

**Dates:** 1<sup>st</sup> – 2<sup>nd</sup> November 2018

**Location:** The Park Inn by Radisson, Northampton



In collaboration with:



Annual Awards Sponsor:



FORENSIC IMAGERY ANALYSIS DIVISION

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## The value of forensic science: safer, healthier, wealthier and happier communities

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**Aim:** The aim of this year's conference is to celebrate the contribution forensic science makes to society. This may begin with saving costs and time in criminal investigations - if not being indispensable to solving them. It may relate to the social and economic benefits of crime reduction and prevention by rapid and reliable detection, or - for example – to the social and economic benefits of identifying, sanctioning or supporting offenders with drug or mental health problems. It may relate to the role forensic science plays in detecting terrorist-related, financial or organised crime, or crime affecting the food supply or environment. It may relate to crime arising from human rights abuses or to the detection of miscarriages of justice, which demonstrate the role forensic science plays in underpinning the rule of law in a free society - at home and abroad.

**Objectives:** The conference will offer presentations on novel advances and applications in forensic science, on successful contributions to casework, and on practices and procedures that maximise the efficiency and effectiveness of forensic science - especially in holistic approaches to crime reduction and prevention. The Conference will also include sessions on forensic science's role in organised crime and counter-terrorism, cybercrime, and humanitarian investigations, and illustrating the central role of forensic science in preventing, as well as elucidating miscarriages of justice.

**Work stream 1:** The Association of Forensic Science Providers (AFSP) will coordinate the DNA work stream at the Autumn Conference in November 2018.



The aim of the work stream is to update participants on advances in DNA profiling technology and to highlight case examples of interest to the practitioner community.

The session will feature presentations from forensic practitioners, leading academics and technology providers and will include the following subject areas.

- Application of Y-STR profiling for investigation of sexual offences
- How new and old technologies are applied to cold case investigations
- Latest studies on transfer and persistence of DNA
- DVI and missing persons case studies

**Work stream 2:** The Association of Forensic Science Providers (AFSP) will coordinate a Quality and H&S work stream at the Autumn Conference in November 2018.



The aim of this work stream is that "its not all about accreditation"

The session will feature presentations from a wide range of professionals with the intention to have clear and interactive sessions addressing:

- General Quality being as important as accreditation
- Successes and failures – learning from mistakes
- Integrity
- Dealing with emerging threats such as Fentanyl
- Interactive session(s) focusing on critical and pertinent Quality activity.

**Work stream 3:** The Forensic Imagery Analysis Division will coordinate a work stream entitled “The value of experience, competency and consistency in forensic imagery analysis in the criminal justice system” at the Autumn Conference in November 2018.

## FORENSIC IMAGERY ANALYSIS DIVISION

The aim of this work stream is review areas of the evidential trail of imagery, from seizure to presentation in court, to find areas for improvement so that we can all feel happy and secure that we are getting the correct results and the best value.

A safe conviction relies heavily on the reliability of the evidence presented in court. The best value is not necessarily the strongest result, it is the fairest result based on the quality of the evidence.

It is imperative that not only the forensic practitioners, but the police, solicitors and courts use best practice to get the most value out of the evidence without compromise on quality and integrity. The aim of this work stream is review areas of the evidential trail of imagery, from seizure to presentation in court, to find areas for improvement so that we can all feel happy and secure that we are getting the correct results and the best value.

**Work stream 4:** The CSFS Small Business Division will be hosting a work stream at CSFS Annual Autumn Conference entitled “Forensic Science: practical aspects of working to instructions from defence lawyers in the civil and criminal courts.”



The aim of this work stream is to inform scientists and practitioners of the requirements, expectations, obstacles and pitfalls of working for the defence and the value of this work within the Criminal and Civil Justice System.

### Objectives:

- Demonstrate the value of forensic case review work.
- Inform delegates of the requirements for recognition as an expert witness and essential expert witness skills for presenting evidence in the court room.
- Update delegates of the requirements for defence reporting and dealing with prosecution-instructed FSPs and the Police.
- Advise and remind delegates of the Criminal Procedures and Investigations Act 1996 and the obligations and requirements under the legislation for disclosure of evidence.

**Work stream 5:** The CSFS Fingerprint Division will be hosting a work stream at the CSFS Annual Autumn Conference entitled: “Emerging fingerprint processes and systems to assist in making communities safer.”



**Aim:** To explore the value of new fingerprint technologies to make practitioners and communities safer, healthier, wealthier and happier.

### Objectives:

- To examine recent updates to fingerprint identification systems and other potential future developments
- To explore emerging fingermark development processes used both in situ and in the laboratory environment
- To share good practice in both practitioner and researcher communities
- To review relevant case studies relating to fingerprint evidence

Programme (subject to change) – Thursday 1 <sup>st</sup> November 2018					
08:00-09:00	<b>Registration</b>				
09:00-09:10	<b>Opening address/chair of keynote sessions:</b> Professor Martin Evison, President, The Chartered Society of Forensic Sciences				
09:10-09:50	<b>Keynote presentation: NPCC Transforming Forensics Programme: The value of the forensic capability network</b> - Jo Ashworth OBE, Programme Director, NPCC Transforming Forensics Programme				
09:50-10:30	<b>Keynote presentation: The pharmacology of drug-driving</b> - Professor Kim Wolff MBE, Director King's Forensics, King's College London				
10:30-11:10	<b>Keynote presentation: What is cognitive bias, why it happens, and how to overcome it-</b> Dr Itiel Dror, Cognitive Neuroscience Researcher, University College London (UCL)				
11:10-11:40	Refreshments, sponsors and posters				
11:40-12:30	Discussion and Q&A with keynote speakers: Safer, Healthier, Wealthier and Happier Communities: the cost of crime (tbc)				
12:30-14:10	<b>Lunch:</b> Due to numbers, lunch will be split into two sitting in the restaurant. Delegates will therefore be split into two groups on the day.				
	<b>Association of Forensic Science Providers (AFSP) DNA work stream</b>	<b>Association of Forensic Science Providers (AFSP) Quality work stream</b>	<b>The value of experience, competency and consistency in forensic imagery analysis in the criminal justice system</b>	<b>Forensic Science: practical aspects of working to instructions from defence lawyers in the civil and criminal courts</b>	<b>Emerging fingerprint processes and systems to assist in making communities safer</b>
<b>Room</b>	Buckingham Suite (1/2)	Buckingham Suite (1/2)	Kent Suite	Essex Suite	Norfolk Suite
<b>Session chair</b>	Jim Thomson, Eurofins Forensic Services	Martin Hanly, Eurofins Forensic Services	Jacqueline Pestell, Eurofins Forensic Services	Sue Carney, Ethos Forensics	David Goodwin, Fingerprint Associates Limited
<b>14:10-14:50 (Keynotes)</b>	<b>ICMP activities to identify victims of war and disasters:</b> René Huel, Head of DNA Division, International Commission on Missing Persons (ICMP)	<b>Forensic Science Quality: current and future:</b> Dr Gillian Tully, Forensic Science Regulator	<b>Video and imagery evidence must follow a forensic methodology:</b> David Spreadborough, Certified Forensic Video Analyst, Amped Software	<b>Forensic science research and practice: creating synergy and addressing the interpretation of forensic science evidence:</b> Professor Ruth Morgan, Professor of Crime and Forensic Science, University College London	<b>Fingerprint accreditation and the secondary legislation impact:</b> Andrew Price, Head of East Midlands Special Operations Unit - Forensic Science (EMSOU-FS)
<b>14:50-15:20</b>	<b>King Richard III: the resolution of a 500 year old cold case:</b> Professor Turi King, Professor of Public Engagement/Reader in Genetics and Archaeology, University of Leicester	<b>CSFS Generic Quality Management System:</b> David Bellamy, Quality & Competence Manager, The Chartered Society of Forensic Sciences	<b>The use of imagery in court by non-imagery experts:</b> Clive Evans, Lead Forensic Imagery Investigator, Eurofins Forensic Services	<b>The loneliest place in the world – surviving and thriving in the witness box:</b> Patrick Ryan, Barrister/Course Designer, Inns of Court College of Advocacy	<b>A mission of transition, from CAST to Dstl:</b> Richard Case, Forensics & Identity Team, Defence Science and Technology laboratory (Dstl)
15:20-15:50	Refreshments, sponsors and posters				
<b>Session chair</b>	Jim Thomson, Eurofins Forensic Services	Martin Hanly, Eurofins Forensic Services	Jacqueline Pestell, Eurofins Forensic Services	Sue Carney, Ethos Forensics	Leisa Nichols-Drew, De Montfort University
<b>15:50-16:20</b>	<b>The role and remit of the ICLVR:</b> Geoff Knupfer, Lead Forensic Scientist/Investigator, Independent Commission for the Location of Victims Remains (ICLVR)	<b>ISO17020 Scene Validation – challenges and opportunities:</b> Caroline Rust, Quality & Compliance Manager, Eurofins Forensic Services	<b>Competency of first responders for CCTV evidence:</b> Christopher Hough, Training & Business Development Manager, Daetech Systems (UK)	<b>What it takes to be an expert witness:</b> Dr Chris Pamplin, Editor, UK Register of Expert Witnesses	<b>Maximising value in fingerprint submission: the effect of imaging on quality determination:</b> Dr Helen Earwaker, Lecturer, University of Portsmouth
<b>16:20-16:50</b>	<b>The lost Soldiers of War:</b> Victoria Moore, Commercial Services Manager, LGC		<b>Case review</b> Police Constable James Griffin, Forensic Collision Investigator, Essex Police	<b>The business of forensic fire investigation:</b> Iain Peck, Director/Forensic Fire Investigator, Prometheus Forensic Services	<b>An investigation into the use of smartphones for fingerprint imaging:</b> John Smith, Senior Lecturer – Imaging Science, University of Westminster
19:15	<b>Stuart Kind Memorial Lecture: Forensics: realising the added value from crime scene to court:</b> Stan Brown, Chief Executive, Forensic Science Northern Ireland				
19:45-00:00	<b>Annual Awards Dinner</b> (Society's Annual Awards will be presented after dinner).				

Programme (subject to change) - Friday 2 <sup>nd</sup> November 2018						
	Association of Forensic Science Providers (AFSP) DNA work stream	Association of Forensic Science Providers (AFSP) Quality work stream	The value of experience, competency and consistency in forensic imagery analysis in the criminal justice system	Forensic Science: practical aspects of working to instructions from defence lawyers in the civil and criminal courts	Emerging fingerprint processes and systems to assist in making communities safer	Forensic Science Research: the value of forensic science
<b>Room</b>	Buckingham Suite (1/2)	Buckingham Suite (1/2)	Kent Suite	Essex Suite	Norfolk Suite	Hertford One
<b>Session chair</b>	Richard Talbot, Cellmark Forensic Services	Martin Hanly, Eurofins Forensic Services	Clive Evans, Eurofins Forensic Services	Helen Davies, The Chartered Society of Forensic Sciences	Jo Dawkins, University College Peterborough	Professor Lisa Smith, University of Leicester
<b>09.30-10.00</b>	<b>Cold case study – when old meets new:</b> Catherine Turner OBE, Scientific Adviser - Cold Cases, Eurofins Forensic Services	<b>What is laboratory quality:</b> Peter Harper, Quality Director, Cellmark Forensic Services	<b>Consistency in assessing the significance and value of imagery evidence:</b> Jacqueline Pestell, Senior Imagery Investigator, Eurofins Forensic Services	<b>Why defence experts are essential to the CJS:</b> Dr Sara Short, Director, SLS Forensics Ltd	<b>An investigation into the use of alternative chemicals for fingerprint enhancement reagents:</b> Dr Kevin J. Farrugia, Lecturer in Forensic Science & Dr Benjamin J. Jones, Head of Division of Science, Abertay University	<b>Safer communities: investigating the international response to knife crime:</b> Leisa Nichols-Drew, Forensic Scientist, Consultant and Lecturer, De Montfort University and Cellmark Forensic Services
<b>10.00-10.30</b>	<b>De-convolution of complex mixed DNA profiles for loading to the NDNAD:</b> Paul Stafford-Allen, DNA Lead, Cellmark Forensic Services		<b>A proposed image evidence authentication triage:</b> James Zjalic, Media Forensic Examiner, Verden Forensics	<b>A post-conviction case study:</b> Sue Carney, Consultant/Forensic Scientist & Lecturer, Ethos Forensics	<b>Designing an environmentally acceptable formulation for the physical developer process:</b> Professor Robert Hillman, Professor of Physical Chemistry, University of Leicester	<b>Homicide investigation and forensic science:</b> Professor James Fraser, Research Professor in Forensic Science, University of Strathclyde
<b>10.30-11.00</b>	Refreshments, sponsors and posters					
<b>Session chair</b>	Richard Talbot, Cellmark Forensic Services	Martin Hanly, Eurofins Forensic Services	Clive Evans, Eurofins Forensic Services	Helen Davies, The Chartered Society of Forensic Sciences	Jo Dawkins, University College Peterborough	Professor Lisa Smith, University of Leicester
<b>11.00-11.30</b>	<b>Improving touch DNA recovery by using direct amplification:</b> Dr Carl Mayers, Fellow - Counter-Terrorism and Security Division, Dstl	<b>Fentanyl as drugs of abuse – lessons learned and action taken:</b> Dr Julia Jaeger, H&S Advisor, Eurofins Forensic Services	<b>Quality degradation due to poor image processing:</b> Adam McLean, Senior Technical Officer, Acume Forensic Ltd	<b>Small business and social media workshop - part 1:</b> Lucy Rennie, Director, Lucy Rennie Communications	<b>MMD: taking a fingerprint development technique from recommendation to operational use:</b> Dr Timothy Watkinson, Forensic Laboratory Officer Supervisor, Hampshire Constabulary & William Lambert, Forensic Laboratory Officer, Hampshire Constabulary	<b>Forensic science regulation in the UK: assessing performance:</b> Emmanuel Nsiah Amoako, PhD Student, Northumbria University
<b>11.30-12.00</b>	<b>Using NGS for discrimination of identical twins:</b> Dr Burkhard Rolf, Managing Director - DNA Forensic Services, Eurofins Medigenomix Forensik GmbH		<b>The deployment of super-recognisers in policing and identity verification:</b> Dr Josh P. Davis, Reader in Applied Psychology, University of Greenwich		<b>Comparing methods to recover fingerprints from objects exposed to water:</b> Emily Horrocks, Doctoral Researcher, University of Portsmouth	<b>Effective forensic science via method validation for ISO17020:</b> Professor Andrew Jackson, Emeritus Professor, Staffordshire University

Programme (subject to change) - Friday 2nd November 2018						
<b>12:00-12:30</b>	<b>The Chartered Society of Forensic Sciences AGM (Members only)</b>					
<b>12:30-13:15</b>	<b>Lunch:</b> Due to numbers, lunch will be split into two sitting in the restaurant. Delegates will therefore be split into two groups on the day.					
	<b>Association of Forensic Science Providers (AFSP) DNA work stream</b>	<b>Association of Forensic Science Providers (AFSP) Quality work stream</b>	<b>The value of experience, competency and consistency in forensic imagery analysis in the criminal justice system</b>	<b>Forensic Science: practical aspects of working to instructions from defence lawyers in the civil and criminal courts</b>	<b>Emerging fingerprint processes and systems to assist in making communities safer</b>	<b>Forensic Science Research: the value of forensic science</b>
<b>Room</b>	Buckingham Suite (1/2)	Room: Buckingham Suite (1/2)	Room: Kent Suite	Room: Essex Suite	Room: Norfolk Suite	Room: Hertford One
<b>Session chair</b>	Emma Westacott, Eurofins Forensic Services	tbc	Jacqueline Pestell, Eurofins Forensic Services	Sue Carney, Ethos Forensics	Adam Long, University of Derby & The Chartered Society of Forensic Sciences	Roger Robson, The Chartered Society of Forensic Sciences
<b>14:00-14:30</b>	<b>Genetic and genomic approaches to estimating ancestry:</b> Professor Mark Jobling, Professor of Genetics, University of Leicester	<b>Quality challenges: integrity and propriety:</b> Dr Jeff Adams, Head of Science Section, Forensic Science Regulation Unit - Home Office	<b>Facewatch:</b> Nick Fisher, CEO, Facewatch	<b>Small business and social media workshop - part 2:</b> Lucy Rennie, Director, Lucy Rennie Communications	<b>Methods to visualise fingermarks on pangolin scales: developing quick, easy and usable methods for wildlife crime investigation:</b> Dr Paul Smith, Principal Lecturer, University of Portsmouth	<b>Tweeters vs neo luddites - technology in forensic investigation:</b> Dr Sophie Parsons, Forensic Engineer/Senior Associate, Hawkins & Associates-Hong Kong
<b>14:30-15:00</b>	<b>The UK YHRD expansion project – uncovering new variants:</b> Dr David Ballard, Senior Scientist, Kings College London		<b>Systematic management of CCTV evidence – from picture to prosecution:</b> Michael Neville, CEO, Neville Forensic Recognition Ltd		<b>Improved detection and visualisation of human involvement in wildlife crime by latent fingermark development:</b> Helen McMorris, Teaching Fellow, Abertay University	<b>The use of SARC-LED lighting for rapid examination of SARC facilities for biological fluid contamination:</b> Professor John Cassella, Professor of Forensic Science Education, Staffordshire University
<b>15:00-15:30</b>	Refreshments, sponsors and posters					
<b>Session chair</b>	Emma Westacott, Eurofins Forensic Services	tbc	Jacqueline Pestell, Eurofins Forensic Services	Sue Carney, Ethos Forensics	Richard Case, Dstl	Roger Robson, The Chartered Society of Forensic Sciences
<b>15:30-16:00</b>	<b>Techniques for the rapid in-situ identification and ageing of biological fluids:</b> Stephanie Rankin-Turner, PhD Researcher, Loughborough University	<b>Complex validation activity – lessons learnt:</b> Martin Hanly, Quality & Compliance Director, Eurofins Forensic Services	<b>Advances in AI and human identification:</b> Stephen Cole, Director, Acume Forensics Ltd	<b>Student projects and justice in crisis: can forensic scientists help?:</b> Dr Dennis Eady, Case Consultant, Cardiff University Law Innocence Project	<b>Developing fingermarks on polymer banknotes: effects of issuing bank and handling:</b> Dr Benjamin J. Jones, Head of Division of Science, Abertay University	<b>Bias in the blood: evaluating individual and investigative bias in blood pattern analysis:</b> Laura Hugh, Senior Lecturer in Forensic Science, University of West London
<b>16:00-16:30</b>	<b>“Transforming Forensics” - a large-scale operational pilot of rapid DNA technologies:</b> Lucy Johnson, Customer Service Officer – Security Sector, Eurofins Forensic Services			<b>Panel discussion (tbc)</b>	<b>Establishing effective documentation strategies for fingerprint examinations:</b> Megan Needham, PhD Researcher, Staffordshire University	<b>A quality collaboration:</b> Dr Anya Hunt, CEO, The Chartered Society of Forensic Science & Andy Hughes, Pre-Sales Solution Architect, Equiniti-ics
<b>16:30-16:40</b>	Close of conference					