

Forensic Science and Engineering
Faculty 5 / Institute of Civil and Public Law with references to
environment and European law

Scientific Support – An insight into CSI



European cooperation

COST Action CA16101 „CSI requirements for
evidence handling within the application of
imaging solutions“

21/08/2017 – 25/08/2017



COST – transdisciplinary network

- COST - *Coopération européenne dans le domaine de la recherche scientifique et technique*; english – European cooperation in the field of science and technology
- 35 Member States (the EU Member States, Iceland, Croatia, Former Yugoslav Republic of Macedonia, Norway, Switzerland, Serbia, Turkey and Israel as cooperating country)
- Objectives: international cooperation, knowledge transfer, technical equipment and financial resources effectively, to complement the EU Research Program, to strengthen the European position

West Yorkshire Police

- Responsible for the five major cities: Bradford, Calderdale, Kirklees, Leeds and Wakefield (approximately 2.2 million people on approximately 2000 square kilometers)
- 4.478 police officers, 4.082 FTE, 533 PCSO (March 2016)
- Divided in 20 departments for example Carr Gate Complex & Forensic Multimedia



Carr Gate Complex

- Training complex with outdoor and indoor areas for forensics on Crime scene, firearms, public order, driving maneuvers, IT and more



Forensic Multimedia

- Multimedia presentation of complex evidence
→ is gaining more and more importance within
the last 10 years
- These include: photographic evidence, crime
scene laser scanning, forensic exhibits, crime
scene evidence, laboratory results e.g. DNA
analysis, videos, interviews, audio, 3D
reconstructions, mapping and more

Scientific Support Center

- Forensic and scientific support to Humberside, South Yorkshire, North Yorkshire and West Yorkshire police



Scientific Support Center

- Performing the following tasks:
 - Investigation of crime scenes
 - Fingerprint analysis
 - Shoe analysis
 - DNA analysis
 - Imaging Services
 - Digital Forensic
 - IT / Switchboard for CSI teams / acceptance and issuance of Evidence
 - Preparation of court reports
 - Quality standards and performance monitoring

Time table

Monday 09:00 - 16:00 hours	Tuesday 09:00 - 16:00 hours	Wednesday 09:00 - 16:00 hours	Thursday 09:00 - 16:00 hours	Friday 09:00 - 16:00 hours
Carr Gate	Carr Gate	Calder Park - Top Floor	Carr Gate	Calder Park - Top Floor
Introduction Evidence types, Locards Law	Prof. L Dawson Spectral Imaging	Introduction Neil Woods Overview of Imaging Dave Massey	Packaging exercise	Introduction Fingerprint Recovery from Deceased
BREAK 10:40 – 11:00 hours	BREAK 10:40 – 11:00 hours	BREAK 10:40 – 11:00 hours	BREAK 10:40 – 11:00 hours	BREAK 10:40 – 11:00 hours
DNA - ISO, contamination, Para DNA	Prof. M Tistarelli Face Recognition	<u>Imaging Unit</u> Audio E-Fit Imaging Officers	Practical fingerprint and footwear	Digital Forensics
LUNCH 12:15 – 13:00 hours	LUNCH 12:15 – 13:00 hours	LUNCH 12:15 – 13:00 hours	LUNCH 12:15 – 13:00 hours	LUNCH 12:15 – 13:00 hours
Transforming Forensics - mobile date	Dr S. Francese Fingerprint Analysis - MALDI	<u>Imaging Unit</u> Plan Drawers (inc practical exercise) Crime Scene Management	Practical Vehicle Examination	SSU Tour
BREAK 14:50 – 16:00 hours	BREAK 14:50 – 16:00 hours	BREAK 14:50 – 16:00 hours	BREAK 14:50 – 16:00 hours	BREAK 14:50 – 16:00 hours
Practical swabbing and trace evidence recovery	Dr M. Baiker 3D Striated Tool and Firearm Marks	<u>Imaging Unit</u> Video Editors CCTV Questions and Answers	Practical Burglary examination	Questions and Answer session and close

Carr Gate Center – crime scene reconstruction

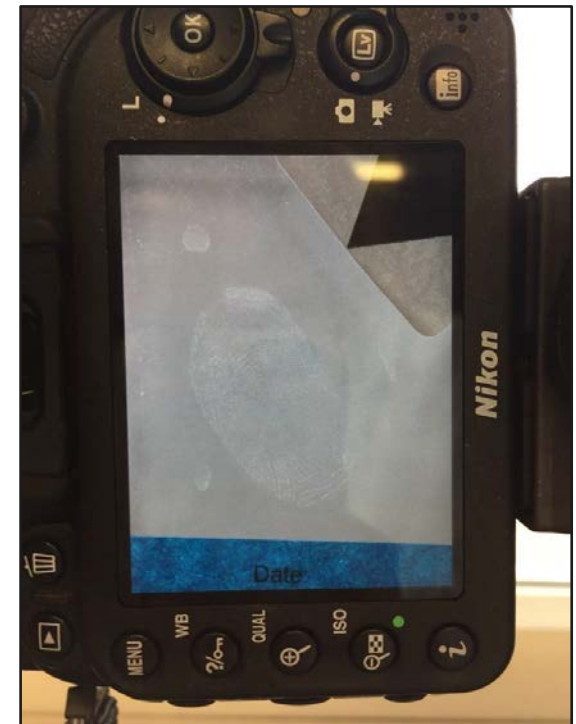
CSI Trainee Team



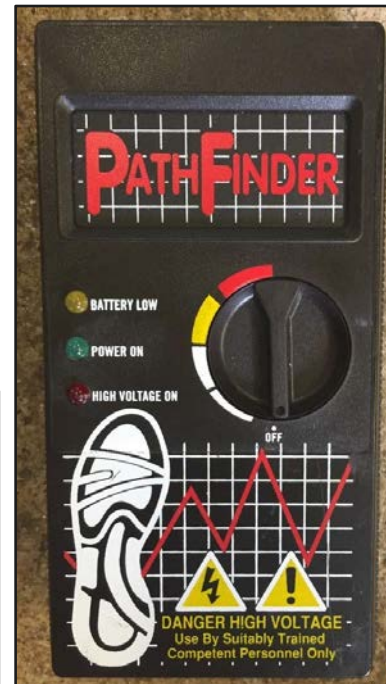
Securing of evidence



Crime scene photography



Burglary reconstruction



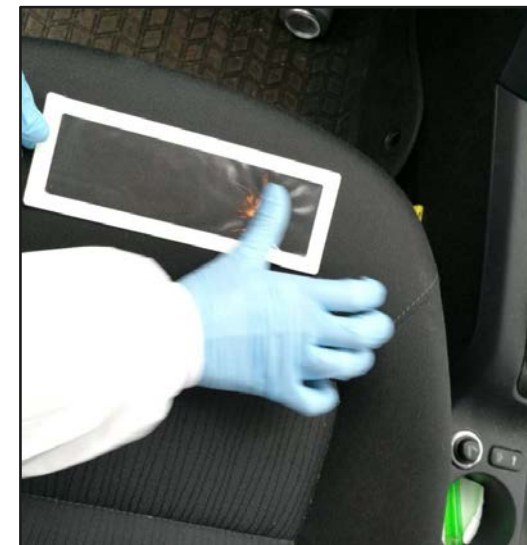
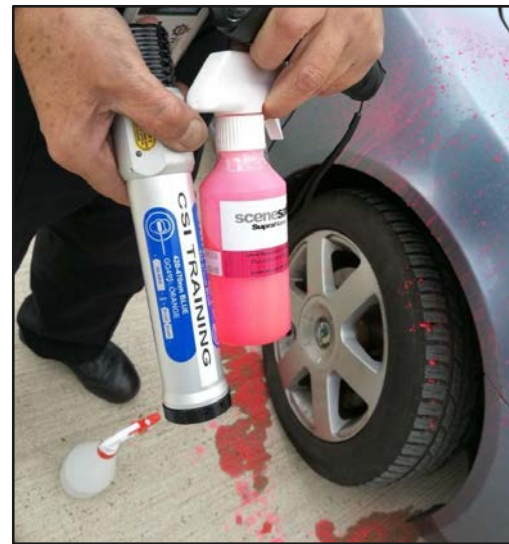
Shoeprint investigation



Fingerprint investigation



Vehicle investigation



Thank you for your attention!

