

Guy Cooper, BSc (Hons), PhD, CChem, MRSC **Personal Qualifications and Experience**

Dr Cooper has been employed as a forensic consultant since 1995. He is instructed in a large number of criminal cases each year, specializing in particular in cases involving footwear mark evidence and the transfer of glass fragments. Dr Cooper also reports on cases involving tool marks, physical fit evidence, the transfer of different types of building materials such as paint, the direction of breakage of glass panes and bottles, and other types of physical damage. As an experienced member of the team he also reviews cases involving many other evidence types such as fingerprints, alcohol BAC calculations, CCTV imagery and gunshot residues.

Specific issues addressed include the suitability and security of exhibit handling and packaging, the suitability of tests employed, calibration of the analytical instruments used, the accuracy of any comparisons made and the interpretation of the evidence given the information available to the prosecution scientist. Dr Cooper will also interpret the available evidence in the light of the account provided by the defendant. This can involve the original examination of unused exhibits and independent testing of samples. In relation to trace particulate evidence, Dr Cooper has conducted tests into the indirect transfer of glass fragments, which can result in fragments from one location being found on clothing which has never been to that location. He has published this research in *Science & Justice* (Vol.52, 166-170 2013).

Dr Cooper maintains casework derived databases of the physical properties and compositions of glass samples, the numbers and types of glass fragments recovered from clothing items and a reference collection of test marks from footwear items. He also has access to databases compiled by other forensic providers when requested for specific cases.

Dr Cooper has the following qualifications:

- Bachelor of Science (Hons) (1986) Chemistry with Geochemistry
- Doctor of Philosophy (1990) Crystallography
- Chartered Chemist
- Member of the Royal Society of Chemistry

He is also a member of the Chartered Society of Forensic Sciences. Dr Cooper undertakes regular training and development in the field of Marks and Trace Evidence, and takes part in both internal and external proficiency tests. Dr Cooper has given evidence in both Magistrates' and Crown courts in England and Wales and also further afield, in Israel and Bermuda.

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