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Chemical Analysis of Firearms, Ammunition, and Gunshot Residue

Second Edition



James Smyth Wallace

**Chemical Analysis Of Firearms Ammunition And
Gunshot Residue International Forensic Science And
Investigation By James Smyth Wallace 2 Jun 2008
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DeAnna M. Wallace



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Chemical Analysis of Firearms, Ammunition, and Gunshot Residue James Smyth Wallace, 2008-06-04 Firearms and their associated ammunition spent bullets and spent cartridge cases provide useful information for identifying suspects terrorist groups and the criminal history of a weapon Unfortunately despite the numerous detailed books on the physical aspects of firearms very little has been published on the chemical aspects and what has been *Handbook of Firearms and Ballistics* Brian J. Heard, 2011-08-17 The updated second edition of *Handbook of Firearms and Ballistics* includes recent developed analytical techniques and methodologies with a more comprehensive glossary additional material and new case studies With a new chapter on the determination of bullet caliber via x ray photography this edition includes revised material on muzzle attachments proof marks non toxic bullets and gunshot residues Essential reading for forensic scientists firearms examiners defense and prosecution practitioners the judiciary and police force this book is also a helpful reference guide for undergraduate and graduate forensic science students **Firearms Discharge Residues** James Smyth Wallace, 1995

Firearms, the Law, and Forensic Ballistics, Second Edition Tom Warlow, 2004-10-14 Firearms the Law and Forensic Ballistics Second Edition offers a comprehensive reference on the forensic science of firearms It describes what happens when a weapon is fired in terms of internal external and terminal wound ballistics and discusses the consequences for the forensic scientist both at the scene of the shooting and in the laboratory *Forensic Analysis of Gunshot Residue*, 2002

On the Integrated Analysis and Forensic Interpretation of Gunshot Residues Callum Bonnar, 2023 Gunshot residue GSR is a type of trace material that can be very important to the investigative coronial or criminal justice outcomes of incidents involving firearms If scientists can identify and interpret these traces they can contribute valuable information to the forensic process The intent of this body of work was to improve the capabilities available to forensic practitioners regarding this particular category of trace evidence Specifically it was identified that contemporary GSR analyses largely target the inorganic portion of gunshot residues IGSR Forensic scientists already recognize that firearms also produce organic residues OGSR Research into the exploitation of OGSR traces as evidence has been well documented in academic literature but as yet no single technique has been adopted into routine laboratory use It is even rarer for an integrated IGSR OGSR methodology using data on both components of the trace to be used forensically for either detection or evaluation of traces The original contribution to knowledge made by this PhD project was the exploration of options for this unified approach New data on the subject were generated using combinations of laboratory experimentation firing range fieldwork and collection of survey samples Authentic GSR samples were collected both from shooting experiments performed under controlled conditions and also following natural shooting activities undertaken by recreational shooters It was found that liquid chromatography mass spectrometry instrumentation already available to forensic chemistry laboratories could detect known OGSR compounds

from recovered traces A process for preparing subsamples for this organic analysis while still retaining the possibility of inorganic analysis by scanning electron microscopy SEM EDS was developed Further samples were collected alongside written surveys asking about recent firearm use Analysis of the pool of non shooter background samples gave confidence that the combination of analytical methods was specific for the detection of GSR with few to no false positives This tandem approach offers potential improvement over current methodologies as it increases the mass of material that can be targeted for detection It also allows greater confidence when discriminating between GSR and inorganic environmental GSR like interferences by providing more chemical data to the analyst from each trace These data are applicable to sub source and activity level evaluations used by experts in some jurisdictions when presenting their findings Next different strategies for combining the outputs of each test into a single reportable result were investigated Initially the inorganic and organic laboratory tests were judged to indicate whether samples were either positive or negative for GSR using separate predetermined categorical requirements A Bayesian updating approach was then used to show that a statistical improvement in diagnostic accuracy was achieved when using two categorical tests in tandem More advanced statistical methods including both univariate and multivariate models were also used to generate likelihood ratios representing the potential strength of evidence that could be provided to an investigator or courtroom Of several techniques evaluated artificial neural networks were chosen as the preferred method for synthesising multivariate data into a cohesive output without needing to discard any underlying information Some perceived advantages and disadvantages of choosing categorical or likelihood ratio based reporting are discussed Data were also used as examples to perform certain sub source and activity level evaluations Finally two separate spectrometers featuring ambient ionisation capability were assessed for possible use as rapid and selective detectors for analysing GSR Both Direct Sample Analysis DSATM and Direct Analysis in Real Time DART ion sources were found to be capable of desorbing and ionising relevant OGSR compounds Either instrument was suitable for analysing and potentially discriminating between smokeless powders collected in their unburned state However the outcomes for GSR samples collected using adhesive stubs were poor due to a significant background signal arising from the adhesive in the stubs themselves Therefore it is suggested that any future efforts to incorporate AIMS into a GSR detection procedure should focus on sample collection or isolation procedures In summary the integrated analysis of GSR traces was found by the author to both be technically feasible and to offer greater value to forensic scientists than the sum of its parts

An Investigation of the Forensic Applicability of Distance Determination of Gunshot Residue Using Chemical Analysis by X-ray Fluorescence Spectroscopy Raelene Keesling (F.),2016 Survey of Gunshot Residue Analysis in Forensic Science Laboratories D. DeGaetano,JA. Siegel,1990 The purpose of this survey was to determine the methods of analysis being used on gunshot residue GSR samples in forensic science laboratories across the United States In addition the two general techniques of GSR analysis are compared and contrasted Problems encountered by analysts using scanning electron

microscopy energy dispersive X ray analysis SEM EDX are discussed *Review of* WF. Rowe,2001 This book reviews the methods currently used for the analysis of gunshot residue with particular emphasis on variable pressure SEM EDS analysis of primer residues The chapters consider in turn 1 gunshot residue as forensic evidence including the loss or transfer of gunshot residue and its collection at the scene of the crime 2 the formation and composition of primer residue particles 3 methods of gunshot residue analysis concentrating on the aforementioned variable pressure SEM EDS but also outlining graphite furnace atomic absorption spectrophotometry neutron activation analysis inductively coupled plasma mass spectrometry and capillary electrophoresis 4 gunshot residue plumes produced by a variety of firearms presenting video captures from the highspeed video studies conducted by RJ Group Inc in 1994 5 the results of SEM EDS analyses of a number of samples of gunshot residue produced by various handguns firing a variety of brands of ammunition and finally 6 the proper documentation of test results and the presentation of testimony The book concludes with a glossary of ballistic terms and a comprehensive bibliography of articles relating to the analysis of gunshot residue **Elemental Analysis of Gunshot Residue to Differentiate Bullet Type and Firing Distance** Christine Ella Hay,2013 **Transfer and Persistence of Gunshot Residue Particles** DeAnna M. Wallace,2010 **Forensic Gunshot Residue Distance Determination Testing Using Identical Make and Model Handguns and Different Ammunitions** ,2008 The determination of how far a firearm was from a victim or target when it was discharged is a frequent request to crime laboratories This determination requires test firing the firearm at various distances to compare gunshot residue patterns made during the test with patterns on the victim or target Crime laboratories stipulate that the same firearm and ammunition used in commission of the crime must be used for this testing however little empirical evidence exists supporting this requirement It was the purpose of this study to determine if there were any significant differences using different firearms and different ammunition in distance determination testing The findings indicated that no significant differences occurred with different firearms but there were significant differences with different brands of ammunition

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