

# **CRIME SCENE**

## **BLOODSTAIN PATTERN**

**Analysis Workbook**



**N . L E R O Y P A R K E R**

# Crime Scene Bloodstain Pattern Analysis Workbook

**William G. Eckert, Stuart H. James**



## **Crime Scene Bloodstain Pattern Analysis Workbook:**

Crime Scene Bloodstain Pattern Analysis Workbook N. Leroy Parker, 2014 This workbook is designed to assist the Crime Scene Analyst Technician or Investigator in documenting bloodstained patterns that are located at the crime scene or on bloodstained items that are submitted for an analysis. It is also designed to assist the Crime Scene Analyst Technician or Investigator in reconstructing or analyzing a bloodstained crime scene or a bloodstained item for which a bloodstain pattern analysis is requested. The documentation could be accomplished with overall midrange photographs and close up photographs with 2 3 or 6 centimeter stick on tapes that should be placed in the center of each rectangular area. The documentation should also consist of notes and rough sketches with measurements. The close up photographs of the rectangular areas with the 2 3 or 6 inches stick on tapes that were placed in the center of those areas should be taken with a parallel film camera plane. The stick on tapes should be labeled according to the surface on which they would be placed. Example West wall of living room 1 ww of lr 1 and west wall of living room 2 ww of lr 2 etc. The number of close up photographs would be determined by the number of rectangular areas with the stick on tapes. Example At least ten 10 close up photographs should be taken if ten 10 stick on tapes were placed on the bloodstained surface. The bloodstain pattern reconstruction or analysis should be done by first recognizing and or identifying the many different types of patterns in a bloodstained scene or on a bloody item. The next step should involve the reconstruction of the points or areas of convergence and origin and then a determination of how the other patterns were most likely created. The workbook contains several tasks and assignments that would provide the student with the tools to accomplish the documentation and analysis. The Crime Scene Analyst Technician or Investigator after successfully completing the workbook workshop should be aware that 1 0 Single drops of blood in a crime scene or on an item were influenced by the surface from which the blood fell the volume the diameter the shape the impact angle the scalloping of the perimeter and the direction of travel of the dropped blood that impacted the target surface the volume the height from which the blood fell the texture of the target surface on which the blood fell the angle of the targeted bloodstained surface and the horizontal speed of the source that issued the blood 2 0 Numerous drops of blood in the same pattern in a crime scene or on an item were influenced by the force or the impact less than 25 feet per second dropped blood and cast off bloodstain 25 to 100 feet per second medium velocity bloodstain over 100 feet per second high velocity bloodstain projected blood arterial bleeding transfer of blood from one object to another contact or transfer bloodstains imprint bloodstains smears or swipes and wipes large volumes of blood splashed or pooled blood 3 0 The reconstruction or analysis of the points or areas of origin could be determined by strings scaled drawings or calculations. The interpretation of the other patterns non impact along with the Medical Examiner's autopsy report should allow the crime scene analyst technician or Investigator to complete a bloodstain pattern analysis report and if possible explain and or testify to the sequence of events that occurred at the crime scene

*Crime Scene Processing and Investigation Workbook*

Christine R. Ramirez, Casie L. Parish-Fisher, 2011-11-15 The work of a crime scene investigator requires stellar organizational skills and razor sharp attention to detail Developing these skills is best achieved through hands on training simulating actual case events Crime Scene Processing and Investigation Workbook takes students from the classroom to the field and into the lab to explore a range of scenarios they will likely encounter on the job Exercises presented in this practical handbook include assessing the scene crime scene photography and mapping fingerprint evidence documentation impression casting bloodstain pattern recognition and advanced techniques for scene processing The book also examines the actions of the initial responding officer highlights special scene considerations and describes the role of crime scene analysis and reconstruction Designed to complement Gardner s Practical Crime Scene Processing and Investigation this manual uses a consistent format throughout to ensure assimilation Each chapter begins with a list of key terms and provides learning outcomes that describe the goal of the chapter Tasks are then broken down into specific segments with objectives necessary materials and a concept overview provided to promote heightened focus on salient points in the chapter Post lab questions enable students to test their grasp of the material and sample worksheets are provided that can be duplicated and used in actual case scenarios By practicing the techniques described in this manual students will be ready when they encounter them for the first time on the job

**Shooting (Trajectory) Reconstruction Workbook** N. Leroy Parker, 2013-01-08 This workbook is designed to assist the Crime Scene Analyst Technician or Investigator in documenting any bullet holes and or indentations that may be present at the crime scene This documentation could be accomplished with overall midrange and close up photographs rough sketches with the required measurement and notes The workbook is also designed to assist the Crime Scene Analyst Technician or Investigator in understanding the different ways of determining a The upward inclined or downward sloped bullet impact angles to the horizontal plane and the horizontal bullet impact angles to the left or right when facing the surface with the bullet hole that would be needed to reconstruct the shooting incident b The approximate location s of the muzzle of the gun at the time of the shooting The determined or calculated bullet impact angle s to the horizontal plane could be used by the Crime Scene Analyst Technician or Investigator to determine the horizontal distance s below the path of the bullet and the distance s the bullet s traveled from the muzzle of the gun to the hole s in the victim or object These distances could then be used to determine calculate the location of the shooter for any known or assumed muzzle height s based on the orientation of the shooter Also having the horizontal bullet impact angle the Crime Scene Analyst Technician or Investigator could determine the perpendicular horizontal distance s from the muzzle of the gun to the surface with the bullet hole s and or indentation s A trajectory or shooting reconstruction could be accomplished by the utilization of one or more of the following methods The emphasis of this workbook would be on the reconstruction of crime scene shooting incidents utilizing these methods Strings and dowels rods Scaled drawings Calculations using the trigonometric ratios Computers programs The workbook would also provide the Crime Scene Analyst Technician or

Investigator with an opportunity to reconstruct and review fifteen real cases More emphasis was placed on solution of these cases which are located in the back of the book by calculations using the trigonometric ratios and the Pythagorean Theorem since this method could be utilized to verify the accuracy of the other methods Potentially very valuable investigative information could be developed through a trajectory or shooting reconstruction of the crime scene that would assist the Analyst Technician or Investigator when interviewing a subject to determine if he or she is truthful in the sequence of events or the manner in which the incident took place Specific information may be logically inferred if the Crime Scene Analyst Technician or Investigator is knowledgeable about trajectory or shooting reconstruction      **Complete Crime Scene**

**Investigation Workbook** Everett Baxter Jr.,2017-09-28 This specially developed workbook can be used in conjunction with the Complete Crime Scene Investigation Handbook ISBN 978 1 4987 0144 0 in group training environments or for individuals looking for independent step by step self study guide It presents an abridged version of the Handbook supplying both students and professionals with the mos      Crime Scene Processing and Investigation Workbook, Second Edition Christine R. Ramirez,Casie L. Parish-Fisher,2020-02-05 Crime Scene Processing and Investigation Workbook Second Edition is the only workbook which directly supports and cross references methodology and terminology presented in Ross Gardner and Donna Krouskup s perennial best seller Practical Crime Scene Processing and Investigations Third Edition The workbook serves as supporting material offering hands on activities to supplement theories and methodologies within the text as well as updated activities to support the new material presented in the Third Edition As the number of forensic academic programs within the United States continue to grow and the textbook continues to be a go to standard in the field the workbook remains an invaluable reference for academics forensic training providers and law enforcement training programs The detailed Instructor s Manual IM lends itself not only to experts who have utilized these procedures before but also to the novice and student who may be introduced to these topics in a classroom setting for the first time The workbook conducts over 30 activities with detailed instructions concept overviews and reflective post lab questions Crime Scene Processing and Investigation Workbook Second Edition continues to stand as the best workbook on the market addressing foundational principles in a hands on manner while directly correlating to the concepts addressed in the Gardner and Krouskup textbook

**Workbook on Crime Scene Reconstruction of Shooting Incidents** Leroy Parker,2005-03-03      **Practical Crime Scene Processing and Investigation, Second Edition** Ross M. Gardner,2011-12-28 All too often the weakest link in the chain of criminal justice is the crime scene investigation Improper collection of evidence blocks the finding of truth Now in its second edition Practical Crime Scene Processing and Investigation presents practical proven methods to be used at any crime scene to ensure that evidence is admissible and persuasive Accompanied by more than 300 color photographs topics discussed include Understanding the nature of physical evidence including fingerprint biological trace hair and fiber and other forms of evidence Actions of the responding officer from documenting and securing the initial information to providing

emergency care Assessing the scene including search considerations and dealing with chemical and bioterror hazards Crime scene photography sketching mapping and notes and reports Light technology and preserving fingerprint and impression evidence Shooting scene documentation and reconstruction Bloodstain pattern analysis and the body as a crime scene Special scene considerations including fire buried bodies and entomological evidence The role of crime scene analysis and reconstruction with step by step procedures Two appendices provide additional information on crime scene equipment and risk management and each chapter is enhanced by a succinct summary suggested readings and a series of questions to test assimilation of the material Using this book in your investigations will help you find out what happened and who is responsible

**Blood Traces** Peter R. De Forest, Peter A. Pizzola, Brooke W. Kammrath, 2021-08-06 A guide to the scientific interpretation of blood traces Blood Traces provides an authoritative resource that reviews many of the aspects of the interpretation of blood traces that have not been treated with the thoroughness they deserve With strict adherence to the scientific method the authors noted experts on the topic address the complexities encountered when interpreting blood trace configurations The book provides an understanding of the scientific basis for the use of blood trace deposits i e bloodstain patterns at crime scenes to better reconstruct a criminal event The authors define eight overarching principles for the comprehensive analysis and interpretation of blood trace configurations Three of these principles are blood traces may reveal a great deal of useful information extensive blood traces although present may not always yield information relevant to questions that may arise in a given case and a collection of a few seemingly related dried blood droplet deposits is not necessarily an interpretable pattern This important resource Provides the fundamental principles for the scientific examination and understanding of blood trace deposits and configurations Dispels commonly accepted misinformation about blood traces Contains a variety of illustrative case examples which will aid in demonstrating the concepts discussed Written for forensic scientists crime scene investigators members of the legal community and students in these fields Blood Traces presents the fundamental principles for the scientific examination of blood trace deposits and configurations

Bloodstain Pattern Analysis with an Introduction to Crime Scene Reconstruction Tom Bevel, Ross M. Gardner, 2008-04-08 Objective establishment of the truth is the goal of any good crime scene investigator This demands a consideration of all evidence available using proven scientific methodologies to establish objective snapshots of the crime The majority of forensic disciplines shed light on the who of a crime bloodstain pattern analysis is one of the most imp

**Bloodstain Pattern Analysis** Tom Bevel, Ross M. Gardner, 2001-09-26 Bloodstain pattern analysis helps establish events associated with violent crimes It is a critical bridge between forensics and the definition of a precise crime reconstruction The second edition of this bestselling book is thoroughly updated to employ recent protocols including the application of scientific method the use of flow charts and the inter relationship of crime scene analysis to criminal profiling It provides more illustrations including color photographs and explains the use of computer programs to create demonstrative evidence for court

**Principles of**

**Bloodstain Pattern Analysis** Stuart H. James, Paul E. Kish, T. Paulette Sutton, 2005-05-26 As witnessed in landmark criminal cases the quality and integrity of bloodstain evidence can be a crucial factor in determining a verdict **Interpretation of Bloodstain Evidence at Crime Scenes, Second Edition** William G. Eckert, Stuart H. James, 1998-07-14 As witnessed in landmark criminal cases the quality and integrity of bloodstain evidence can be a crucial factor in determining a verdict Since the first edition of *Interpretation of Bloodstain Evidence at Crime Scenes* was published nearly a decade ago bloodstain pattern interpretation has continued to grow as a branch of forensic science Revised and updated to reflect new technology and developments in the field the second edition is packed with new information and illustrations including 421 photographs and diagrams of improved quality that will aid in interpretation of evidence Expanding on a single chapter presented in the bestselling first edition the second edition details in four chapters an introduction to bloodstain interpretation low velocity impact and angular considerations medium and high velocity impact and the significance of partially dried clotted aged and physically altered bloodstains in four new chapters A full chapter on the detection of blood with luminol featuring high quality full color photographs of luminol reactions has been added This new edition also includes 12 new case studies in addition to 8 original case studies from the first edition that have been retained for their interpretative value Everyone involved in crime scene evaluation and interpretation law enforcement officers criminologists medical examiners forensic pathologists medicolegal personnel and prosecutors and defense attorneys will benefit from the improved and expanded second edition of this definitive reference *Bloodstain Pattern Analysis with an Introduction to Crime Scene Reconstruction, Third Edition* Tom Bevel, Ross M. Gardner, 2008-04-08 Objective establishment of the truth is the goal of any good crime scene investigator This demands a consideration of all evidence available using proven scientific methodologies to establish objective snapshots of the crime The majority of forensic disciplines shed light on the who of a crime bloodstain pattern analysis is one of the most important disciplines to address what happened Understanding the discipline its underlying scientific basis and how best to apply this knowledge is crucial in the investigator's quest for the truth Internationally known experts in crime scene analysis Tom Bevel and Ross M. Gardner explore bloodstain pattern analysis in depth explaining what it is how it is used and the practical methodologies employed to achieve defensible results *Bloodstain Pattern Analysis with an Introduction to Crime Scene Reconstruction Third Edition* Presents a specific and detailed taxonomy of bloodstain pattern characteristics Offers a full color fold out Decision Map to guide analysts through the classification process Uses full color photos and diagrams to illustrate concepts Describes the theory principles and methodology for crime scene reconstruction Details proven applicable scientific methodologies Emphasizes observable and reproducible results to mitigate accusations of subjectivity in evidence and testimony Provides more than 60% new or significantly revised information Offering practical advice and tips for novices and experienced professionals this book employs clear lucid and reasoned scientific arguments to provide the tools to guide and focus any investigative effort Captain Tom Bevel is a 27 year

veteran of the Oklahoma City Police Department retiring in 1996 as Commander of the Homicide Robbery Missing Persons and Unsolved Homicide units He is held in high esteem as a qualified expert in crime scene reconstruction and bloodstain pattern analysis in state federal and foreign courts His knowledge and expertise as a crime scene consultant has been sought after in 45 US states and 11 foreign countries He owns a forensic education and consulting company in his home state of Oklahoma Ross M Gardner retired as a Command Sergeant Major and Special Agent in 1999 after serving a total of 24 years in US Army law enforcement Certified by the International Association for Identification as a Senior Crime Analyst for the past 16 years Gardner is an active instructor and consultant throughout the United States in crime scene analysis bloodstain pattern analysis and crime scene investigation Complete Crime Scene Investigation Handbook EVERETT. BAXTER JR.,2021-03-31 A truly comprehensive handbook this work is a one stop practical reference for law enforcement and crime scene technicians on finding collecting and packaging evidence and all the steps required to preserve and process the crime scene Topics include documentation through note taking photography and sketching searches fingerprint developm

**Bloodstain Pattern Analysis in Crime Scenarios** Kacper Choromanski,2020-12-12 This book introduces the core concepts of bloodstain pattern analysis that help to understand and make independent contributions to crime scenes accurately It presents a bridge between new research results and the practical work field of crime scene investigation in bloodstain pattern analysis by showing and detailing reports of two different scenarios The scenarios presented have an extensive description of gathered evidence and are diversified with real crime scene photography and sketches This kind of case report is rare in scientific books but the author as a researcher has permission from the authorities to present the cases The book finally concludes with the main problems of modern bloodstain pattern analysis and discusses the way forward

Forensic Reconstruction: Theory to Practice Henry Lee,Elaine Pagliaro,2024-10-14 Forensic reconstruction is intended for use by students and practitioners alike There are few books that concentrate on the process of crime scene reconstruction that also include some of the basic principles of forensic investigation These principles are examined in the first few chapters of the book and include the use of logic in examination and the admission of reconstruction evidence in American courts After a look at the basics this text looks at application of these standards in various applications of the reconstruction process Among the applications are those that may be found in other sources such as shooting reconstruction DNA pathology and bloodstain pattern analysis also included are more recent developments and unique areas such as profiling genetic genealogy and computational reconstruction as applied to airplane crashes Each chapter is written by a recognized expert in the field which adds a depth of understanding and case highlights not found in other texts Law and Legal Information Directory Gale Group,2004 Law and Legal Information Directory provides descriptions and contact information for institutions services and facilities in the law and legal information industry **Practical Crime Scene Analysis and Reconstruction** Ross M. Gardner,Tom Bevel,2009-06-26 Crime scene reconstruction CSR is today s hot topic



The immense proliferation of television print and electronic media directed at this area has generated significant public interest albeit occasionally encouraging inaccurate perceptions Practical Crime Scene Analysis and Reconstruction bridges the gap between perception and reality helping      Bloodstain Pattern Analysis Craig Gravel,2021-11-19 Bloodstain Pattern Analysis Level 1 Lab Manual provides students with basic knowledge about bloodstain pattern analysis and the opportunity to conduct experiments to demonstrate the dynamics of blood in flight The manual and associated exercises show how bloodstain pattern analysis is used as a forensic science discipline illustrate the information that can be obtained from bloodstain evidence and help students analyze actual bloodstain patterns Upon completion of a course that uses this lab manual students are qualified to join the International Association for Bloodstain Pattern Analysis which is the first step toward taking the International Association of Identification Bloodstain Analysis certification test The second edition features a new introduction as well as a new chapter on cognitive bias written by Kelsey Backry Additionally the chapters have been expanded slightly to include greater depth of historical background for each topic Bloodstain Pattern Analysis is a dynamic lab manual that is ideal for students taking introductory forensic science law enforcement or criminology courses This resource could be especially helpful for active police officers and forensic scientists      *Bloodstains As Evidence* Marty Matisoff,Larry Barksdale,2011 This book is geared toward police detectives forensic scientists bloodstain pattern analysts prosecutors and defense attorneys as well as anyone else with general interest in forensic science

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