

# **Jay M. Stuart**

Prime Forensic Consulting  
Firearm/Tool Mark Examination – Shooting Scene Reconstruction

6305 Vista Montano St. NW  
Albuquerque, NM 87120  
505.554.4691

info@primeforensicconsulting.com

## **Education**

### **Bachelor of Science in Chemistry w/ Criminalistics Emphasis**

- Metropolitan State College of Denver, Denver, CO (August 1999 - December 2003)

## **Professional Experience**

### **Albuquerque Police Department**

- Technical Leader - Firearm/Tool Mark Unit (January 2021 - Present)
- Scientific Evidence Division Manager (August 2017 - March 2020)
- Technical Leader – Firearm/Tool Mark Unit (July 2013 - August 2017)
- Firearm/Tool Mark Unit (February 2006 - August 2017)
- Major Crime Scene Team (August 2010 - August 2017)

### **Prime Forensic Consulting**

- Independent Forensic Services (January 2015 - Present)

### **Southeast Missouri Regional Crime Laboratory**

- Firearm/Tool Mark Examiner (December 2003 - February 2006)

## **Professional Memberships**

### **Association of Firearm and Tool Mark Examiners (AFTE)**

- AFTE Presidential Recognition (2016)
- Steve Molnar Key Person of the Year Award Recipient (2015)
- Distinguished Member (September 2009 - Present)
- Regular Member (May 2008 - September 2009)
- Provisional Member (September 2004 - May 2008)
- AFTE Training Seminar Steering Committee – Co-Chair (June 2013 - Present)
- AFTE Electronic Resource Committee (June 2013 - Present)
- AFTE Webmaster (May 2010 - Present)
- Referee Lab Selection Committee (June 2007 - May 2015)
- 2013 AFTE Annual Training Seminar Host Committee – Chair (May 2011 - June 2014)
- AFTE Annual Training Seminar Host Committee (2014 - Present)
- Digital Reference Collection Committee (May 2010 - May 2012)
- Web Oversight Committee (June 2008 - May 2010)

### **Southwestern Association of Forensic Scientists (SWAFS)**

- Regular Member (July 2012 - Present)

### **American Academy of Forensic Sciences (AAFS)**

- Associate Member (February 2013 - Present)

### **American Society of Crime Laboratory Directors (ASCLD)**

- Regular Member (May 2017 - Present)

## **Certifications & Licenses**

5/19-Present	<b>NFSA – Certified Forensic Manager - I</b>
4/16-Present	<b>ASCLD/LAB-<i>International</i> Certified Technical Assessor</b>
9/15-4/16	<b>ASCLD/LAB-<i>International</i> Qualified Assessor</b>
4/12-Present	<b>AFTE Firearm Examination and Identification Certification</b>
4/12-Present	<b>AFTE Gunshot Residue Examination and Identification Certification</b>
3/12-Present	<b>AFTE Tool Mark Examination and Identification Certification</b>
1/12-Present	<b>National Career Readiness Certificate – Gold</b>
1/11-1/15	<b>Smith &amp; Wesson M&amp;P15 Armorer</b>
6/10-6/14	<b>Smith &amp; Wesson M&amp;P9 Armorer</b>
9/08-9/11	<b>Beretta Armorer</b>
9/08-9/11	<b>Sig Sauer Armorer</b>
12/07-Present	<b>New Mexico Department of Public Safety Professional Lecturer</b>
5/07-Present	<b>NRA Certified Instructor</b> <ul style="list-style-type: none"><li>▪ Pistol</li><li>▪ Rifle</li><li>▪ Shotgun</li><li>▪ Home Firearm Safety</li><li>▪ Personal Protection in the Home</li><li>▪ Range Safety Officer</li></ul>
5/07-Present	<b>Hi-Point Armorer</b>
6/05-6/08	<b>Kahr Arms Armorer</b>
4/04-9/09	<b>Glock Armorer</b>

## **Professional Conferences**

### **Association of Firearm and Tool Mark Examiners (AFTE)**

2017-Denver, CO                      2016-New Orleans, LA                      2015-Dallas, TX  
2014-Seattle, WA                      2013-Albuquerque, NM                      2012-Buffalo, NY  
2011-Chicago, IL                      2010-Henderson, NV                      2009-Miami, FL  
2007-San Francisco, CA                      2005-Indianapolis, IN

### **American Society of Crime Lab Directors (ASCLD)**

2019 – St. Louis                      2018 - Atlanta, GA

### **Western Regional Crime Lab Directors**

March 2019 - Salt Lake City, UT

### **SHOT Show**

2004, 2005, 2008, 2011, 2014, 2015-Las Vegas

### **Association of Crime Scene Reconstruction (ASCR)**

2006-Albuquerque

### **Midwestern Association of Forensic Scientists (MAFS)**

2005-St. Louis                      2003-Columbus

### **American Academy of Forensic Sciences (AAFS)**

2004-Dallas                      2003-Chicago

## **Training & Workshops**

2/19-5/19                      **ASCLD Leadership Academy**  
Jeremy Triplett, Ben Swanholm, Tim Scanlan, Jody Wolf

4/19                      **From A to Z: The Grant Writing Process Webinar**  
Foundant for Grantseekers

5/18                      **Process Performance Data and Root Cause Analysis**  
Heather Jamieson

5/18                      **A 3-Year Success Plan for Comparative Evidence and Biology/DNA**  
Pamela Hofsass

5/18                      **Obtaining and Maintaining a Path to the Future in Forensic Organizations**  
Jennifer Naugle

3/18                      **ANAB Auditing Principles**  
ANAB Web-based Training

3/18                      **ANAB Delta to AR 3028 - Assessors**  
ANAB Web-based Training

5/17                    **The Reconstruction of Vehicle Shootings**  
Luke Haag, Forensic Science Services, Inc.

5/17                    **Bloodstain Pattern Recognition**  
Sgt. Richard Mathews, New Mexico State Police

9/16                    **DNA Evidence Collection**  
Alana Williams, Albuquerque Police Department - DNA Unit

6/16                    **National World War II Museum Tour**  
AFTE 2016

6/16                    **Report Writing and Testimony for Shooting Incident Reconstruction**  
Deputy Chief Tim Scalan, Jefferson Parish Sheriff's Office  
Deputy Jene Rauch, Jefferson Parish Sheriff's Office

5/16                    **Practical Shooting Incident Reconstruction**  
Deputy Chief Tim Scalan, Jefferson Parish Sheriff's Office  
Deputy Jene Rauch, Jefferson Parish Sheriff's Office

5/16                    **Subclass Characteristics**  
Nancy D. McCombs, FATE Forensic Instruction

7/15                    **ASCLD/LAB Assessor Course for Testing Laboratories**  
Anja Einseln, ASCLD/LAB

6/15                    **Cognitive Factors in Forensic Decision Making**  
Dr. Itiel Dror, Cognitive Consultants International

5/15                    **Projectile Deflection Caused by Intermediate Objects**  
Matt Noedel, Noedel Scientific  
Dan Alessio, Oregon State Police

5/15                    **Metallurgy for the Non-Metallurgist**  
Dr. Dana Medlin, Engineering Systems Inc.

10/14                   **Forensic Science and the Law**  
New Mexico Department of Public Safety

10/14                   **Advanced Firearm Technology and Testimony**  
Daniel O'Kelly, International Firearm Specialist Academy

8/14                    **Toolmarks on Reloaded Ammunition**  
Axel Manthei, Manthei Mess Systeme

6/14                    **Magneto-Optical Sensor Training**  
Jason Butell, Johnson County Crime Lab

6/14                    **APD Patrol Rifle Certification Course**  
David E. Bartram, Albuquerque Police Department

6/14                   **APD Patrol Rifle Optics Certification Course**  
David E. Bartram, Albuquerque Police Department

5/14                   **Shooting Reconstruction: 4 Elements of Trajectory - Webinar**  
Aaron Brudenell, Arizona DPS

5/14                   **Rusted Firearms**  
Derek Mears, Salt Lake City Police Department

5/14                   **Ammunition and CartWinPro**  
Axel Manthei, Bavarian State Bureau of Investigation

5/14                   **Make & Shoot Black Powder**  
Jeff Jagmin & Janice Wu, Washington State Patrol

11/13                 **Shooting Reconstruction**  
West Virginia University Extended Learning Program

5/10                   **Wound Ballistics**  
Hal Price, ATK Armament Systems

5/10                   **Examination of Electronic Control Devices (Taser)**  
Rick Wyant, CRT Less-Lethal, Inc.

5/10                   **Contemporary Issues in Firearms Identification**  
Ron Nichols, Bureau of Alcohol, Tobacco, Firearms and Explosives  
Andy Smith, San Francisco Police Department

1/10                   **Lock Picking, Lock Bypassing & Subtle Breaching Techniques**  
Dan Elting, Jericho Specialized Entry Training

8/08                   **Forensic Science Seminar**  
New Mexico Office of the Medical Investigator

4/08                   **FBI Gunpowder and Gunshot Residue School**  
John Webb, FBI Firearm/Tool Mark Unit  
Brandon Giroux, FBI Firearm/Tool Mark Unit  
George Bedish, FBI Firearm/Tool Mark Unit

2/08                   **Ethics in Forensic Science**  
West Virginia University Extended Learning Program

8/07                   **IBIS Data Acquisition Training**  
Petar Zencovich, Forensic Technology, Inc.

6/07                   **Forensic Shooting Scene Reconstruction Course**  
Michael Haag, Forensic Science Consultants Inc.

6/07                    **Scientifically Defensible Criteria for the Identification of Tool Marks**  
John Murdock, Bureau of Alcohol, Tobacco, Firearms and Explosives  
Bruce Moran, Sacramento Co. DA Laboratory of Forensic Services

5/07                    **ISO Standards and Firearms and Tool Marks**  
Larry Lorsbach, ASCLD/LAB

10/06, 12/06        **Leica Geosystems High-Definition Surveying Scanner**  
Tim Woodruff, Leica Geosystems

7/06                    **Basic Field Investigation**  
L.T. Guenther, Albuquerque Police Department

6/06                    **Wound Ballistics**  
Stephen McGrory, Alliant Techsystems (ATK)

5/06                    **Soft Body Armour Workshop**  
First Choice Body Armour Representative

2/06                    **Proper Trajectory Measurement**  
Mike Haag, Albuquerque Police Department

2/06                    **Crime Scene Photography Techniques**  
Jerry Goffe, Board of Directors (EPIC)

10/05                   **Full-Auto Conversion**  
Rick Vasquez, BATF Firearms Technology Branch

10/05                   **Firearm Restoration – Electrolytic Rust Removal**  
Kathleen Green, MSHP Crime Lab

5/05                    **Applied Polarized Light Microscopy**  
Sebastian Sparena, McCrone Research Institute

3/05                    **Bloodstain Pattern Interpretation**  
Michael Van Stratton, Kansas Bureau of Investigation

3/05                    **Firearm Safety Training**  
Thomas Beardslee, SEMO Police Academy

3/04-3/05            **BATF National Firearms Examiner Academy**  
Various Instructors, BATF National Laboratory

2/04                    **Setting Up a Digital Evidence Unit & Preparing for Accreditation**  
Carrie Whitcomb, National Center for Forensic Science

10/03                   **Fracture Match Theory**  
Stephen McKasson, Document Consulting Service

7/03-11/03                    **Internship, Southeast Missouri Regional Crime Laboratory**

7/02-8/02                    **Internship, Denver County Coroner's Office**

### **ASCLD/LAB Technical Assessments**

2/16                            Wyoming Division of Criminal Investigation

### **Firearm & Ammunition Factory Tours**

3/13                            **Elysium Arms (Firearms)**  
Raton, NM

10/05                        **Olin-Winchester (Ammunition)**  
East Alton, IL

10/04                        **Charter 2000, Inc. (Firearms)**  
Shelton, CT

10/04                        **Colt Manufacturing Company (Firearms)**  
Hartford, CT

10/04                        **H&R 1871, LTD (Firearms)**  
Gardner, MA

10/04                        **Kahr Arms (Firearms)**  
Worcester, MA

10/04                        **U/S/ Fire-Arms Manufacturing Company, Inc. (Firearms)**  
Hartford, CT

10/04                        **Winchester/U.S Repeating Arms Company (Firearms)**  
New Haven, CT

10/04                        **Connecticut Shotgun (Shotguns)**  
New Britain, CT

10/04                        **Drill Master/Eldorado Tool (Rifling Buttons & Deep Hole Drills)**  
Milford, CT

10/04                        **Lyman Products, Inc. (Reloading Tools and Molds)**  
Middletown, CT

8/04                            **Remington (Ammunition)**  
Lonoke, AR

8/04                            **Heckler & Koch (Firearms; U.S. Distribution Center)**  
Sterling, VA

8/04                    **Marlin (Firearms)**  
North Haven, CT

8/04                    **O. F. Mossberg & Sons (Shotguns)**  
North Haven, CT

8/04                    **Savage Arms, Inc. (Firearms)**  
Westfield, MA

8/04                    **SIGARMS (Firearms)**  
Exeter, NH

8/04                    **Smith & Wesson (Firearms)**  
Springfield, MA

8/04                    **Sturm, Ruger and Company, Inc. (Firearms)**  
Newport, NH

8/04                    **BURBAK Companies (Injection-molded Handgun Frames)**  
Wilton, NH

8/04                    **National Firearms Museum**  
Fairfax, VA

8/04                    **Springfield Armory National Historic Site**  
Springfield, MA

### **Forensic Laboratories & Other Institutions Visited**

3/19                    **Salt Lake City Police Department**  
Salt Lake City, UT

3/19                    **Utah Bureau of Forensic Sciences**  
Salt Lake City, UT

5/16                    **Jefferson Parish Crime Laboratory**  
New Orleans, LA

5/14                    **Washington State Patrol Crime Laboratory**  
Seattle, WA

11/09                   **New Mexico Department of Public Safety Crime Laboratory**  
Santa Fe, NM

10/09                   **Kentucky State Police - Jefferson Regional Forensic Laboratory**  
Louisville, KY

4/08                    **Miami-Dade Police Department - Crime Laboratory Bureau**  
Miami, FL



- 8/04                    **BATF Firearms Technology Branch**  
Martinsburg, WV
- 7/04                    **BATF National Laboratory**  
Ammendale, MD
- 10/03                  **Ohio Bureau of Criminal Identification & Investigation**  
London, OH
- 10/03                  **Missouri State Highway Patrol Crime Laboratory**  
Jefferson City, MO

## **Publications/Research Projects**

- 2018                    **Chapter 8: Firearms Evidence: Documentation, Collection and Preservation**  
Forensic Evidence Management - ISBN: 978-1-4987-7718-6
- 4/13                    **Cartridge Mismatch: 9x19mm in a 357 SIG**  
AFTE Journal, Volume 45, Number 2, Spring 2013
- 6/11                    **The Importance of Choosing the Correct Medium for Known Distance Shots**  
AFTE Journal, Volume 43, Number 3, Summer 2011
- 6/09                    **A Color-Coding System For NIBIN Test Fires**  
AFTE Journal, Volume 41, Number 3, Summer 2009
- 3/09                    **Ejection Patterning – Standard Testing and the Effects of Non-Standard Angles, Orientations, and Maneuvers**  
AFTE Journal, Volume 41, Number 2, Spring 2009
- 9/08                    **The Bullet Vacuum: A Water Tank Addition**  
AFTE Journal, Volume 40, Number 4, Fall 2008
- 12/08                  **Bullet Cannelures: Can They Be Used to Link a Scene Bullet to a Suspect Box of Ammunition**  
AFTE Journal, Volume 40, Number 1, Winter 2008

## **Lectures/Papers Given**

- 7/15                    **The Effects of Bias in Forensic Science**  
Albuquerque Police Department, Albuquerque, NM
- 5/14                    **1260 Smith & Wesson M&P9 Pistols Inter-Compared Using MatchPoint: An Evaluation of the Science of Firearm and Tool Mark Identification**  
45<sup>th</sup> Annual AFTE Training Seminar, Seattle, WA

- 6/12                    **AFTE 2013 Update**  
43<sup>rd</sup> Annual AFTE Training Seminar, Buffalo, NY
- 5/10                    **AFTE Website Advances**  
41<sup>st</sup> Annual AFTE Training Seminar, Henderson, NV
- 3/05                    **Bullet Cannelures: Can They Be Used to Link a Scene Bullet to a Suspect Box of Ammunition**  
BATF National Firearms Examiner Academy, Phase IV

## **Instructor**

- 5/15                    **APD Crime Scene Specialist Training**  
Albuquerque Police Department
- 6/12                    **Shooting Incident Reconstruction: 3D Laser Scanning, Uncertainty, and Experimental Set-up**  
43<sup>rd</sup> Annual AFTE Training Seminar, Buffalo, NY
- 2011-Present        **June Jubilee**  
New Mexico 2<sup>nd</sup> Judicial District, District Attorney's Office
- 2007-Present        **APD Field Investigator Training - Firearm/Tool Marks**  
Albuquerque Police Department
- 2007-Present        **APD Cadet Training - Firearm/Tool Marks**  
Albuquerque Police Department
- 2006-Present        **OMI Fellow Training - Firearm/Tool Marks**  
Albuquerque Police Department
- 2006-Present        **APD Citizen CSI Class - Firearm/Tool Marks**
- 2006-Present        **APD Junior CSI Class - Firearm/Tool Marks**
- 2006-Present        **APD Junior Police Academy – Firearm/Tool Marks**
- 2003-2006            **Collection and Preservation of Evidence (CJ350) – FA/TM Section**  
Southeast Missouri State University
- 2003-2006            **Forensic Microscopy (FS550) – FA/TM Section**  
Southeast Missouri State University