

## **Jay M. Stuart**

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

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### **Education**

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

- Metropolitan State College of Denver

### **Professional Experience**

#### **Albuquerque Police Department (February 2006 - Present)**

- Technical Leader – Firearm/Tool Mark Unit
- Firearm/Tool Mark Examiner
- Major Crime Scene Team

#### **Southeast Missouri Regional Crime Laboratory (December 2003 - February 2006)**

- Firearm/Tool Mark Examiner

#### **Prime Forensic Consulting (January 2015 - Present)**

- Firearm/Tool Mark Examiner
- Shooting Reconstruction

### **Professional Memberships**

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

- AFTE Presidential Recognition (2016)
- Steve Molnar Key Person of the Year Award Recipient (2015)
- 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)
- 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**

- Associate Member (February 2013 - Present)

## **Certifications & Licenses**

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**

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		

### **SHOT Show**

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

## **Association of Crime Scene Reconstruction**

2006-Albuquerque

## **Midwestern Association of Forensic Scientists**

2005-St. Louis

2003-Columbus

## **American Academy of Forensic Sciences**

2004-Dallas

2003-Chicago

## **Training & Workshops**

- 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 Lorschach, 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 Sparenge, 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**  
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**

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**

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

6/11                    **Introduction to Firearm/Tool Mark Examination**  
New Mexico District Attorney's Office – June Jubilee, Albuquerque, NM

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**

6/16                    **June Jubile**  
New Mexico 2<sup>nd</sup> Judicial District, District Attorney's Office

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

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