



San Francisco Police Department  
Forensic Services Division - Criminalistics Laboratory  
Tel: 415.671.3200 / Fax: 415.671.3290  
**Curriculum Vitae**

**GERALD ANDREW SMITH**

Criminalist III – Supervisor

**CURRENT AREA OF ASSIGNMENT**

Firearm and Toolmark Unit

**EDUCATION**

M.S. Forensic Science, University of New Haven, 1999

B.A. Criminal Justice, University of Southern Mississippi, 1997

**RELATED EXPERIENCE**

October 2014 – Present

Criminalist III  
Firearm and Toolmark Unit  
City and County of San Francisco Crime Laboratory

August 2004 – October 2014

Criminalist II  
Firearm and Toolmark Unit  
City and County of San Francisco Crime Laboratory

February 2004 – August 2004

Criminalist II  
Firearm and Toolmark Unit  
San Mateo County Sheriff's Forensic Laboratory

October 1999 – January 2004

Crime Laboratory Analyst  
Firearm and Toolmark Unit  
Florida Department of Law Enforcement  
Orlando, Florida

August 2005 – Present

Associate Faculty  
College of Security and Criminal Justice  
University of Phoenix

April 2001 – April 2015

Adjunct Faculty  
Criminal Justice / Criminal Investigations  
Corinthian Colleges, Inc.

July 1999 – October 1999

Forensic Technologist  
Trace Evidence – Gunshot Residue Unit  
Florida Department of Law Enforcement  
Orlando, Florida

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July 1998 – January 1999

Intern  
Firearms Unit  
Bridgeport Police Department  
Bridgeport, Connecticut

### TESTIMONY

Qualified as an expert witness to testify in the field(s) of:

Firearm Identification / Toolmark Identification / Distance Determination /

Gunshot Residue Analysis

### CERTIFICATIONS

Tool Mark Evidence Examination and Identification – administered through the Association of Firearm and Tool Mark Examiners

Firearms Evidence Examination and Identification – administered through the Association of Firearm and Tool Mark Examiners

Gunshot Residue Evidence Examination and Identification – administered through the Association of Firearm and Tool Mark Examiners

### PROFESSIONAL AFFILIATIONS

Association of Firearms and Toolmark Examiners—Distinguished Member – Past President

Organization of Scientific Area Committees – Past Chair – Firearms/Toolmark Subcommittee

Organization of Scientific Area Committees – AFTE Representative to the Forensic Science Standards – Current Chair

### SPECIALIZED TRAINING<sup>1</sup>

Title	Material Covered	Completion Date	Instructor Name & Qualifications
3D Virtual Comparison Microscopy and Correlation Algorithm Hands-On Practicum with Cadre Forensics	Hands on practice utilizing the Cadre comparison microscopy tools and functions	5/26/2024	Ryan Lilien – Cadre Forensics
2022 Firearm and Toolmarks Policy and Practice Forum – 4 day conference (webinar)	Legal Issues, Emerging Technologies, Research Methods, and Intelligence	1/11/2022 – 1/14/2022	NIJ / RTI
Exploration of Breech Face Subclass Characteristics	Subclass characteristics	12/14/2021	Veronica Franklin
Machining for the Firearm Examiner	Machining Processes	3/11/2020	Chris Monturo, Firearms Examiner, Precision Forensic Testing
Auditing Your Laboratory to ISO / IEC 17025: 2017	Auditing to ISO / IEC 17025: 2017	3/5/2020	Soraya McClung, Technical Training Specialist, A2LA

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Understanding ISO / IEC 17025: 2017 for Testing and Calibration Laboratories	Understanding ISO / IEC 17025: 2017	3/3/2020	Soraya McClung, Technical Training Specialist, A2LA
An Introduction to Statistical Thinking for Forensic Practitioners	Statistics	1/28/2020	Hal S. Stern, Ph. D.; University of California, Irvine
Testimony Related Issues – Preparation for Daubert and Evidentiary Hearings in Firearm and Toolmark Identification	1.5 hr webinar on issues surrounding evidentiary hearing and Daubert criteria in firearms examination	10/10/19	Ron Nichols – Firearms Examiners & Author
Subclass Characteristics – Review of the Literature Part 2	1.5 hr webinar on review of the literature that discusses subclass characteristics	10/3/19	Ron Nichols – Firearms Examiners & Author
Subclass Characteristics – Review of the Literature Part 1	1.5 hr webinar on review of the literature that discusses subclass characteristics	9/26/19	Ron Nichols – Firearms Examiners & Author
Subclass Characteristics – Machining Fundamentals	1.5 hr webinar on machining techniques and their potential impact on subclass characteristics in firearms	8/15/19	Ron Nichols – Firearms Examiners & Author
Subclass Characteristics – Definition, Origin and Recognition	1.5 hr webinar on the origin of subclass characteristics and its history in firearms examination	8/8/19	Ron Nichols – Firearms Examiners & Author
Consecutive Matching Striations – Theory and Application	1.5 hr webinar on the concept of CMS and its application in firearms examination	8/1/19	Ron Nichols – Firearms Examiners & Author
Franklin Covey – The 5 Choices to Extraordinary Productivity	2 day workshop on ways to be more productive and manage time in relation to work and personal life	7/18/19	Denise Van Alstine – Trainer for SF DHR
Validation Studies – A Review of the Literature	1.5 hr webinar on the validation studies conducted in the field of firearms examination	5/22/19	Ron Nichols – Firearms Examiners & Author
Computer Based Studies – Differentiating Toolmarks Made by Different Tools	1.5 hr webinar on the studies being performed using objective computer based methods in firearms examination	5/16/19	Ron Nichols – Firearms Examiners & Author
AFTE Theory of Identification – Hypothesis Testing and Research Design	1.5 hr webinar on the research studies conducted related to validating the AFTE Theory of Identification	5/9/19	Ron Nichols – Firearms Examiners & Author
Objectivity, Subjectivity, and Bias in Firearm and Toolmark Identification	1.5 hr webinar on understanding the role of objectivity, subjectivity, and bias in firearms examination	1/15/19	Ron Nichols – Firearms Examiners & Author
Remington Firearms Factory Tour – Huntsville, AL	Tour of the facilities and manufacturing operation of Remington Firearms (pistol and shotguns)	8/30/18	Matthew Trask – Plant Manager
Winchester Ammunition Factory Tour – Oxford, MS	Tour of the facilities and manufacturing operations of Winchester Ammunition (pistol, rifle, military)	8/29/18	Ed Harris – Plant Manager

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Remington Ammunition Factory Tour – Loanoke, AR	Tour of the facilities and manufacturing operations of Remington Ammunition (pistol, rifle, and shotgun)	8/28/18	Kris Karson – Plant Manager
SIG Ammunition Factory Tour – Jacksonville, AR	Tour of the facilities and manufacturing operations of SIG Ammo	8/28/18	Brad Criner – Plant Manager
ANAB ISO/IEC 17025:2017 and AR3125 Assessor Training	Web based course in understanding the new requirements as laid out in ISO/IEC17025 accreditation standard	7/2/18	Emma Dutton – Trainer for ANAB
AccuTrans – Lifting from Difficult Surfaces and Tool Marks	4 hr workshop on the utilization of forensic sil and its application to examining firearms and tool marks	6/3/18	JoAnn DiPrete – Instructor for AccuTrans
Bleeding Control Basic v. 1.0 Course	Training in how to stop bleeding from traumatic events	5/29/18	Jennifer Treff & Christopher Blair– Trainers SF Fire Department
ANAB Delta to AR 3028 - Assessors	Web based course in understanding the ANAB accrediting document AR3028	3/20/18	Emma Dutton – Trainer for ANAB
ANAB Forensic: Auditing Principles	Web based course in understanding the auditing principles of ANAB	3/6/18	Emma Dutton – Trainer for ANAB
Measurement Traceability – Assessor Training	Web based course in understanding how to assess measurement traceability during a lab assessment	3/7/18	Emma Dutton – Trainer for ANAB
Creating an Inclusive Environment: Introduction to Managing Implicit Bias	2 day workshop in managing bias and not letting it impact your interactions with employees	2/8/18	Ryan Kimura – Training Officer for SF DHR
Preventing Workplace Harassment – San Francisco Supervisors	Web based training on how to create a work environment which prevents harassment of any kind	12/11/17	CCSF
Forensic Statistics	4 day workshop on the application of statistics to forensic science – basics of statistics, likelihood ratios, principal component analysis	11/16/17	Nick Petraco, PhD – Professor and Research Scientist at John Jay College
Expert Witness Testimony Techniques for Firearms Examiners	8 hr workshop in techniques that can be employed when testifying to Firearm and Toolmark related analysis	5/29/16	Ron Smith – Latent Print Examiner, Owner Ron Smith & Associates
24-Plus for Supervisors	28 hour course in performance management of employees and understanding CCSF policies and how to better supervise employees	12/1/15	Denise Van Alstine – Trainer for SF DHR
Introduction to ISO/IEC 17025:2005	8 hr course introducing the concepts and standards as defined by the ISO/IEC 17025:2005 document	11/2/15	Anja Einseln – Corporate Trainer for ASCLD/LAB
ASCLD/LAB International Assessor Training Course	5 day workshop to become a Laboratory Assessor and understanding the ASCLD/LAB and ISO/IEC standards in relation to assessments	11/6/15	Anja Einseln – Corporate Trainer for ASCLD/LAB

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IBIS Trax-HD3D BrassTrax 3.0 Learning Module	Webinar in understanding the new features and techniques to utilize the IBIS Trax-HD3D and BrassTrax system	10/7/15	Celine Desmarais – Training Manager for Forensic Technology
Cognitive Factors in Forensic Decision Making	2 day workshop in understanding the impact of bias as it relates to forensic examinations	9/10/15	Itiel Dror, PhD – Researcher Cognitive Consultants
Measurement Confidence for the Forensic Laboratory – Level 200	2 day workshop on understanding and being able to perform measurement uncertainty budgets for barrel and overall length of firearms	8/19/14	Laurel Farrell – Instructor for ASCLD/LAB International
3D Technology	4 hr workshop understanding the application of 3D technology in the Laboratory and its application to firearms examination	5/11/14	Erich Smith – FBI Firearms Examiner & Ryan Lilien, MD/PhD – Researcher at Cadre Forensics
Measurement Confidence for the Forensic Laboratory – Level 100C	8 hr web based training for measurement uncertainty and its role in the forensic laboratory	1/30/14	Laurel Farrell – Instructor for ASCLD/LAB International
Measurement Confidence for the Forensic Laboratory – Level 100B	8 hr web based training for measurement assurance and its role in the forensic laboratory	1/29/14	Laurel Farrell – Instructor for ASCL/LAB International
Measurement Confidence for the Forensic Laboratory – Level 100A	8 hr web based training for measurement traceability and its role in the forensic laboratory	1/28/14	Laurel Farrell – Instructor for ASCLD/LAB International
Microscopy Database	2 hr workshop for the introduction to the use of confocal microscope images to build a database and use of Image J	6/25/13	David Howitt, PhD – Research at UC Davis
Science Behind Firearm Individualization	4 hour workshop on understanding and articulating the science behind firearm and toolmark examination	6/28/13	Srini Rathinam – Firearms Examiner for Los Angeles PD
Hi-Point Firearms Armorers Course	4 hr course in learning how to assemble and disassemble Hi-Point firearms and certify as an armorer	6/24/12	Tom Deeb – Owner, Hi-Point Firearms
Tour of Barrett Firearms – Murfreesboro, TN	Tour of the manufacturing facilities at Barrett firearms to understand the processes and machining in making these specific firearms	11/2011	Plant employees provided the tour – not available exact name(s)
Tour of STI International – Georgetown, TX	Tour of the manufacturing facilities at STI International firearms to understand the processes and machining in making these specific firearms	4/2011	Plant employees provided the tour – not available exact name(s)
Tour of Hi-Point Firearms and Ithaca Gun Company – Mansfield, OH	Tour of the manufacturing facilities at both Hi-Point Firearms and Ithaca Gun Company firearms to understand the processes and machining in making these specific firearms	11/2010	Tom Deeb, Owner of Hi-Point Firearms

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Factory Tour of Klein Tools and DSA Inc. – Lincolnshire, IL	Tour of the manufacturing facilities at Klein Tools to understand the processes and machining in making these specific tools (screwdrivers, pliers, bolt cutters)	11/2009	Plant employees provided the tour – not available exact name(s)
Ruger Armorers Course – P Series Pistols	8 hr workshop on the process of assembly and disassembly of the Ruger P-Series pistols	5/31/09	Bob Wood – Armorer Instructor for Ruger Firearms
Factory Tour of Rainier Bullets and Olympic Firearms – Seattle, WA	Tour of the manufacturing facilities of Rainier bullets to understand the manufacturing of bullets used for reloading and of Olympic Firearms to understand the manufacturing process of AR variant rifles	4/2009	Plant employees provided the tour – not available exact name(s)
Smith and Wesson M&P Pistol Armorer Course	1 day course to learn the assembly and disassembly of the S&W M&P pistol and certify as an armorer	6/28/06	Michael Kolozevsky – Instructor & Armorer for Smith and Wesson
Toolmark Identification and Comparison	40 hr course in understanding the manufacturing of tools (non-firearm tools) and the potential for subclass influence in manufacturing	1/27/06	Jerry Miller – Firearms Examiner for Bureau of Alcohol, Tobacco, Firearms & Explosives
Crime Scene Reconstruction of Shooting Incidents	40 hr course in understanding shooting reconstruction and trajectory in shooting analysis for reconstruction of crime scene events	11/18/05	N. Leroy Parker – FDLE certified crime scene instructor
Kahr Arms Basic Armorer's Course – Pistols	1 day course to learn the assembly and disassembly of Kahr pistols and certify as an armorer	6/20/05	Frank Harris – Instructor / Armorer for Kahr Arms
Shooting Incident Reconstruction	40 hr course in the application of reconstruction of shooting crime scene events	11/19/04	Ed Hueske – Director, Forensic Training & Consulting
Criteria for the Identification of Toolmarks	12 hr workshop in the identification of toolmarks (firearm and non-firearm toolmarks) and the history of the discipline as well as the application of Consecutive Matching Striations (CMS)	5/23/04 & 5/28/04	John Murdock – Firearms Examiners BATFE & Bruce Moran – Firearms Examiners Sacramento County DA's Lab
Familiarization of Variations in Breech Face Marks and Firing Pin Marks from the Same Firearm	4 hr workshop to understand the variances that can occur due to different ammunition even if in same firearm	5/28/04	Beta Tam – Firearms Examiner Los Angeles Police Department
Firearm Safety, Recognition and Technology	1 day workshop on firearms safety	10/24/03	Ralph Ostrowski – ATFE Special Agent in Charge Tampa Field Division
Glock Armorers Course	1 day course to learn the assembly and disassembly for Glock pistols and certify as an armorer	2/15/03	Bryan James – Instructor & Armorer for Glock

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Toolmark Examination Training Program	8 month training program in the examination and comparison of tools and toolmarks (non-firearms)	10/3/02	Matt Conway – Training Officer & Crime Laboratory Analyst at FDLE
Heckler and Koch Model USP Pistol Armorer Course	1 day course to learn the assembly and disassembly of the HK USP pistol and certify as an armorer	5/31/02	Bob (last name unavailable) – Instructor and Armorer for HK
Weapons of Mass Destruction	4 hr workshop on recognizing and understanding potential weapons of mass destruction	2/26/02	Instructor information no available – course at FDLE Orlando
IBIS v. 3.3 (Heritage System)	Updated software course in the capture and correlation of bullets and cartridge cases into the IBIS system	10/2001	Patrick Moran – Trainer for Forensic Technology Inc.
NIBIN Training	5 day course to become an authorized user of the IBIS / NIBIN system to acquire and correlate bullets and cartridge cases	7/13/01	Ana (last name unavailable) – trainer for Forensic Technology Inc.
Smith and Wesson Model SW99 Armorer's Course	1 day course to learn the assembly and disassembly of a specific S&W model firearm and certify as an armorer	5/24/01	S&W Armorer/Instructor – exact name unavailable
Firearms Examination Training Program	10 month training program (continuation of initial joint training) in the examination and analysis of firearms related evidence	3/19/01	Matt Conway – Training Officer & Crime Laboratory Analyst at FDLE
Gunshot Residue Analysis Training Program	8 month training program in the examination and analysis of primer residues utilizing SEM / EDS instrumentation	3/19/01	Deb Lightfoot – Senior Crime Laboratory Analyst at FDLE Orlando
Serial Number Restoration	3 day course in processing and restoring obliterated serial numbers on firearms	8/24/00	Walt Dandridge & Joe Mason – Firearms Examiner ATFE
Gunpowder and Primer Residues School	5 day course in processing and examining distance determination ranges and firearm discharge residues	7/14/00	Carlo Rosati – Firearms Examiner, Federal Bureau of Investigation
Courtroom Demeanor	4 hr workshop on how to present yourself in court as an expert witness	6/20/00	Steve Brady – FDLE Regional Legal Advisor
The Florida-Georgia Forensic Firearms Training Program	6 month (1416 hr) joint initial training program with FDLE and GBI for firearms examination in Tampa, FL	5/25/00	Terry LaVoy – Firearms Examiner (retired) FDLE
Firearms Safety Course	1 day course in how to properly handle and fire various types of firearms	12/15/99	James Brock – Director Criminal Justice Institute at St. Petersburg Junior College

<sup>1</sup> Entry in the table above indicates that the training listed was satisfactorily completed.

**TRAINING CONFERENCES**

Association of Firearm and Tool Mark Examiners 54<sup>th</sup> Annual Training Seminar Anchorage, AK, May 2024

Association of Firearm and Tool Mark Examiners 53<sup>rd</sup> Annual Training Seminar Austin, TX, May 2023

Association of Firearm and Tool Mark Examiners 52<sup>nd</sup> Annual Training Seminar Atlanta, GA, May 2022

FBI Eastern Regional Training Seminar  
Quantico, VA, November 2019

Association of Firearm and Tool Mark Examiners 50<sup>th</sup> Annual Training Seminar Nashville, TN, May 2019

Association of Firearm and Tool Mark Examiners 49<sup>th</sup> Annual Training Seminar Charleston, WV, May 2018

Impression Pattern Evidence Symposium  
Hosted by: National Institute of Justice – Gaithersburg, MD (webinar), January 2018

Association of Firearm and Tool Mark Examiners 48<sup>th</sup> Annual Training Seminar Denver, CO, May 2017

Association of Firearm and Tool Mark Examiners 47<sup>th</sup> Annual Training Seminar New Orleans, LA, May 2016

Association of Firearm and Tool Mark Examiners 46<sup>th</sup> Annual Training Seminar Dallas, TX, May 2015

Association of Firearm and Tool Mark Examiners 45<sup>th</sup> Annual Training Seminar Seattle, WA, May 2014

Shooting, Hunting, Outdoor, Trade Show (SHOT Show)  
Las Vegas, NV, January 2014

Association of Firearm and Tool Mark Examiners 44<sup>th</sup> Annual Training Seminar Albuquerque, NM, June 2013

Impression Pattern Evidence Symposium  
Hosted by: National Institute of Justice – Clearwater Beach, FL, August 2012

Association of Firearm and Tool Mark Examiners 43<sup>rd</sup> Annual Training Seminar Buffalo, NY, June 2012



Shooting, Hunting, Outdoor, Trade Show (SHOT Show)  
Las Vegas, NV, January 2012

Association of Firearm and Tool Mark Examiners 42<sup>nd</sup> Annual Training Seminar  
Chicago, IL, May 2011

Impression Pattern Evidence Symposium  
Hosted by: National Institute of Justice – Clearwater Beach, FL, August 2010

Association of Firearm and Tool Mark Examiners 41<sup>st</sup> Annual Training Seminar  
Henderson, NV, May 2010

Association of Firearm and Tool Mark Examiners 40<sup>th</sup> Annual Training Seminar  
Miami, FL, June 2009

Association of Firearm and Tool Mark Examiners 39<sup>th</sup> Annual Training Seminar  
Honolulu, HI, May 2008

Association of Firearm and Tool Mark Examiners 38<sup>th</sup> Annual Training Seminar  
San Francisco, CA, May 2007

Association of Firearm and Tool Mark Examiners 37<sup>th</sup> Annual Training Seminar  
Springfield, MA, June 2006

Association of Firearm and Tool Mark Examiners 36<sup>th</sup> Annual Training Seminar  
Indianapolis, IN. June 2005

Association of Firearm and Tool Mark Examiners 35<sup>th</sup> Annual Training Seminar  
Vancouver, BC, Canada, May 2004

Association of Firearm and Tool Mark Examiners 33<sup>rd</sup> Annual Training Seminar  
San Antonio, TX, May 2002

## **PUBLICATIONS AND PRESENTATIONS**

Presented “Contemporary Issues in Firearms Identification” – 2 – 16 hour workshops for the  
Metropolitan Police Forensics Laboratory, London, England – March 2023

Presented “Contemporary Issues in Firearms Identification” – 8 hour workshop at the 50<sup>th</sup> Annual AFTE  
Training Seminar, Nashville, TN – May 2019

Presented “Contemporary Issues in Firearms Identification” – 8 hour workshop at the 47<sup>th</sup> Annual AFTE  
Training Seminar, Denver, CO – May 2017

Presented “Contemporary Issues in Firearms Identification” & Mini-Moot Court Processes for the  
National Firearms Examiner Academy – BATFE – Maryland – May 2017

**Curriculum Vitae**  
**Gerald Andrew Smith**

Smith, T., Smith, G. A., Snipes, J. "Validation Study of Bullets and Cartridge Case Comparisons Using Samples Representative of Casework," Journal of Forensic Science, Vol. 61, Issue 4, July 2016, pp 939-946.

Presented "40 Hour Workshop on the Evaluation, Assessment and Documentation of Subclass Characteristics on Tools and Tool Marks for the Firearms Examiner" for the Spanish National Police – Madrid, Spain – April 2016

Presented "Contemporary Issues in Firearms Identification" – 8 hour workshop at the 46<sup>th</sup> Annual AFTE Training Seminar, Dallas, TX – May 2014

Presented "Contemporary Issues in Firearms Identification" – 8 hour workshop at the 45<sup>th</sup> Annual AFTE Training Seminar, Seattle, WA – May 2014

Presented "40 Hour Workshop on the Evaluation, Assessment and Documentation of Subclass Characteristics on Tools and Tool Marks for the Firearms Examiner" for the Guardia Civil Madrid, Spain – October 2013

Presented "Contemporary Issues in Firearms Identification" & Mini-Moot Court Processes for the National Firearms Examiner Academy – BATFE – Maryland – May 2013

Presented "The Courts and Their View on Firearms Identification Evidence" – Workshop Impression Pattern Evidence Symposium – Clearwater Beach, Florida – August 2012

Presented "Contemporary Issues in Firearms Identification" – 8 hour workshop at the 43<sup>rd</sup> Annual AFTE Training Seminar, Buffalo, NY – June 2012

Presented "Contemporary Issues in Firearms Identification" & Mini-Moot Court Processes for the National Firearms Examiner Academy – BATFE – Maryland – May 2012

Presented "Contemporary Issues in Firearms Identification" – 8 hour workshop at the 42<sup>nd</sup> Annual AFTE Training Seminar, Chicago, IL – June 2011

Presented "Contemporary Issues in Firearms Identification" & Mini-Moot Court Processes for the National Firearms Examiner Academy – BATFE – Maryland – May 2010 & 2011

Presented "Contemporary Issues in Firearms Identification" – 2 four hour workshop at the 41<sup>st</sup> Annual AFTE Training Seminar, Henderson, NV – May 2010

Presented "Firearms Identification – Under the Gun – Review and Response to Recent Criticisms" California Association of Criminalists, San Jose, California – October 2009

Presented "ARK – Admissibility Resource Kit: Overview and Updates" 40<sup>th</sup> Annual Training Seminar of the Association of Firearm and Tool Mark Examiners, Miami, Florida – June 2009

Presented "Contemporary Issues in Firearms Identification" & Mini-Moot Court Processes for the National Firearms Examiner Academy – BATFE – Maryland – May 2009

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Presented “Firearms Identification 101: The Basics of the Forensic Science” – The State Bar of California: Forensic Science for Trial Attorneys – San Francisco – May 2009

Presented “A Daubert Hearing in San Francisco – Preparation for and Impact of as it Relates to the Firearm and Tool Mark Community” – Boston Police Department, MA – August 2007

Presented “A Daubert Hearing in San Francisco – How it All Comes Together,” 38<sup>th</sup> Annual Training Seminar of the Association of Firearm and Tool Mark Examiners, San Francisco, CA – May 2007

Presented training seminar on Firearms Identification: “The Evidence and What It Means” to the Territorial Public Defenders Office of the U.S. Virgin Islands – August 2002

Presented paper “A Rifled .32 Auto Cartridge Identified to a .380 Auto Pistol”, 33<sup>rd</sup> Annual Training Seminar of the Association of Firearm and Tool Mark Examiners, San Antonio, TX – May 2002

“A Rifled .32 Auto Cartridge Identified to a .380 Auto Pistol”, Association of Firearm and Toolmark Examiners Journal, Volume 34 Number 1, Winter 2002

“Florida-Georgia Firearms Examiner Training Class: An Overview”, Association of Firearm and Toolmark Examiners Journal, Spring 2001

Last updated: 4/10/2025