

PROFESSIONAL EXPERIENCE

Chris Coleman has a BS in Forensic Science and over 29 years of experience in forensic science with city and county law enforcement agencies, including fifteen years with the Contra Costa County Sheriff's Crime Laboratory (nine as supervisor). He has been court qualified in firearms and toolmark examination, shooting incident reconstruction, crime scene processing, blood spatter interpretation, controlled substance analysis and latent print processing. He holds expertise in firearms examination, shooting reconstruction, crime scene processing and blood spatter analysis. He is a fellow of the American Board of Criminalistics and has held certifications in firearms, toolmark, distance determination and gunshot residue by the Association of Firearms and Toolmark Examiners (AFTE). He has published and extensively taught various firearms-related subjects to law enforcement, medical and legal groups, including a recurring shooting incident reconstruction class with the California Criminalistics Institute (CCI). He is a California POST certified Firearms and Force Options instructor and range master. He is also a past president of the California Association of Criminalists (CAC).

EDUCATION

- Aug 1988 – May 1991: Casper College, Casper, WY
Chemistry/Criminal Justice
- Sept 1991 – Dec 1993: California State University, Sacramento
BS, Forensic Science
- Sept 1995 – May 1996: California State University, Los Angeles
Criminalistics

EMPLOYMENT

- Senior Forensic Scientist, Forensic Analytical Sciences, October 2017 - Present
- Contract Firearms Examiner, Ron Smith & Associates, June 2016 – September 2017
- Deputy Sheriff Forensic Supervisor (Sgt), Contra Costa County Sheriff, Feb. 2007 – June 2016
- Deputy Sheriff Criminalist III, Contra Costa County Sheriff, November 2001 – February 2007
- Criminalist II/III, Santa Clara County District Attorney's Office, August 1996 – October 2001
- Criminalist I, Los Angeles Police Department, May 1995 – August 1996
- Teaching Assistant (Forensics), California State University (Sacramento), June 1993 – August 1993 and June 1992 – August 1992
- Student Intern, California Criminalistics Institute, June 1992 – August 1992

PROFESSIONAL LICENSES/CERTIFICATION

- Diplomate, American Board of Criminalistics, 1998 – 2014
- Fellow, American Board of Criminalistics, 2014 – present
- Associate of Firearms and Toolmark Examiners

- Firearms certification (written tests) – 1999
- Firearms and toolmark practical's – 2009 - 2019
- Distance determination and gunshot residue, 2010 - 2016
- ASCLD/LAB certified assessor, 2012

TESTIMONY EXPERIENCE

Testified in California, Nevada, New Mexico, Illinois, Oregon, Oklahoma, Colorado, and the District of Columbia, including State and Federal courts.

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|----------------------------------|-----------|-----------------|
| ● Controlled Substance Analysis: | 74 times | 1995 to Present |
| ● Crime Scene Processing: | 21 times | 1996 to Present |
| ● Firearms Examination/SIR: | 277 times | 1997 to Present |
| ○ Force Options | 34 times | 2006 to Present |
| ○ GSR | 42 times | 1997 to Present |
| ● Latent Print Processing: | 9 times | 1997 to Present |
| ● Total | 381 times | 1995 to Present |

PROFESSIONAL AFFILIATIONS

- California Association of Criminalists (CAC), June 1992 – present
- Northern California Firearms Study Group, August 1996 – present
- Chairman of North California Firearms Study Group, January 2004 – June 2017
- NIBIN User Group, May 1997 – June 2012
- American Academy of Forensic Sciences, February 1998 – present
- Association of Firearms and Toolmark Examiners (AFTE), July 1999 – present
- National Rifle Association, June 1983 - present
- International Wound Ballistics Association (disbanded), June 1999 – 2003
- CAC Training and Resources Committees, 2004 – 2010
- President, CAC, 2015 – 2016
- Documentation Sunset Committee, AFTE, 2004 – 2005
- Assisted with drafting Documentation Standards, AFTE, 2005

SPECIAL TRAINING

- | | |
|--|-----------|
| ● California CCW Update
Dr. Nick Perjanik
Placer Sporting Club (8 hrs) | Jan. 2025 |
| ● NorCal Firearms Study Group meeting
Various topics and speakers
Sacramento DOJ (4.5 hrs) | Oct. 2024 |
| ● Ballistics Trauma: Understanding Gunshot Wounds
Lori Combs BS, RN, CFN Godoy Medical Forensics
Virtual Online class (1 hour) | Aug. 2024 |
| ● Long Range Ballistics w/ Kestrel
Katie Godfrey & Joe Racosky – Kestrel
Virtual Online class (3 hrs) | July 2024 |
| ● AFTE Meeting
Various topics and presenters
Anchorage, AK (22.5 hrs) | May 2024 |

- The Terminal Ballistics of Sheet Metal May 2024
Mike Haag & Rick Wyant
Anchorage, AK (5 hrs)
- Intro to Precision Rifle Series May 2024
Mark Zorich – Weast Coast Long Range
Esparto, CA (6 hrs)
- NorCal Firearms Study Group meeting Nov. 2023
Various topics and speakers
Sacramento DOJ (3.5 hrs)
- Long Range Precision Shooting Sept/Oct. 2023
Mark Zorich – West Coast Long Range
Esparto, CA (16 hrs)
- Blind Testing and Verification in Firearms May 2023
Donna Eudaley, Annalivia Harris, Callan Hundl
Austin, Texas (4 hrs)
- Ring of Fire Armorer's course May 2023
Brian Smelser
Austin, Texas (4 hrs)
- PhotoGunMetry May 2023
Kristen Schaefer & Aaron Brundell
Austin, Texas (4 hrs)
- AFTE Meeting May 2023
Various topics and speakers
Austin, Texas (24 hrs)
- NorCal Firearms Study Group May 2023
Multiple speakers / presented.
San Francisco Crime Lab (5 hrs)
- Concealed Carry Weapons Dec. 2022
Chris Gulbrandson – Defense Triad
CCW refresher class (4 hrs)
- Firearms and Toolmarks Policy and Practice Forum Jan. 2022
Multiple speakers
Virtual Online Forum (14 hrs)
- Effects of Time on Rusted FA ID Jan. 2022
David Glatter Miami, Fl
Virtual Online Workshop (1 hour)
- CAC Firearms Study Group Dec. 2021
Various speakers
Virtual Online workshop (3 hours)
- Springfield Armory 1911 Armorers Courts Aug. 2021
Gary Monreal Team One Network
Miami, Fl (8 hours)
- AFTE Meeting Aug. 2021
Various Topics
Miami, Fl (24 hours)
- Practical Applications of 3D Tech, Analysis, Stats Aug. 2021
Alan Zheng, Dr. Ryan Lilien, et al.
Miami, Fl (8 hours)
- Glock Talk Jan. 2021

Omar Felix
Virtual Online workshop (2 hours)

- CAC General Crime Scene workshop
Various speakers / topics
Virtual Meeting online (4 hours) Dec. 2020
- CAC Bloodstain Pattern Analysis workshop
Various speakers / BPA topics
Virtual Meeting online (4 hours) Dec. 2020
- Northern California Firearms Study Group
Multiple presenters and topics
Virtual Meeting online (4 hours) Dec. 2020
- Concealed Carry Weapons
Josh McClanahan FoxHole Tactical
CCW license refresher class (4 hours) Dec. 2020
- Introduction to Statistical Thinking for Forensics
Dr. Hal Stern, UC Irvine
San Francisco, CA (6 hours) Jan. 2020
- NorCal Firearms Study Group
Various speakers (Presented)
Sacramento, CA (6 hours) Nov. 2019
- CSDIAI Annual Seminar
Various speaker (Presented workshop)
Burlingame, CA (8 hours) April 2019
- NorCal Firearms Study Group
Various speakers (Presented)
Sacramento, CA (6 hours) Sept 2018
- Statistics for Data Analysis
Jose Portilla/Pierian Data Inc.
Udemy online (5.5 hours) August 2018
- Barrel Manufacturing Workshop
Allan Offringa, ATF Retired
Charleston, West Virginia (4 hours) June 2018
- LWRCI manufacturing / AR-15 function
Joseph Martin, LWRCI
Charleston, West Virginia (4 hours) June 2018
- AFTE meeting
Various topics
Charleston, West Virginia (40 hours) June 2018
- Concealed Carry Weapons
Josh McClanahan FoxHole Tactical
CCW license class (8 hours) April 2018
- Mideo training
Ashley Rachel/Travis Larkin
Washington D.C., DFS (4 hours) August 2017
- Mideo training
Steve Scarbrough
Washington D.C., DFS (3 hours) July 2017
- Testimony training in the PCAST era June 2017

Multiple Speakers
Washington D.C., DFS (4 hours)

- Cybersecurity training May 2017
Octo
Washington D.C., DFS (2 hours)
- PCAST training February 2017
Multiple Speakers
Washington D.C., DFS (4 hours)
- CAC Biannual Seminar November 2016
Multiple Speakers
Palm Springs, CA (24 hours)
- CAC Biannual Seminar May 2016
Multiple Speakers
Los Angeles, CA (24 hours)
- Ammunition Reloading: Forensic Issues March 2016
Mike Giusto, CCI
Sacramento, CA (24 hours)
- CAC Biannual Seminar September 2015
Multiple Speakers
San Mateo, CA (24 hours)
- Assertive Supervision Workshop September 2015
Marin Consulting/CA POST
Dublin, CA (24 hours)
- Bloodborne Pathogens Safety August 2015
Target Solutions
Martinez, CA (8 hours)
- CAC Biannual Seminar May 2015
Multiple Speakers
Ventura, CA (24 hours)
- CAC Biannual Seminar October 2014
Multiple Speakers/Workshop presenter
Rohnert Park, CA (40 hours)
- ASCLD/LAB Certified Technical Assessor September 2014
ASCLD/LAB
Martinez, CA (8 hours)
- CAC Biannual Seminar May 2014
Multiple Speakers
San Diego, CA (24 hours)
- Sig Sauer Pistol Armorer's Course February 2014
KC Frederick/Sig Sauer
Contra Costa Sheriff's Office Range (24 hours)
- Basic Internal Affairs Investigations October 2013
Gary Gregson/D-Prep
Martinez, CA (40 hours)
- AFTE Meeting June 2013
Various topics
Albuquerque, NM (48 hours)
- Suppressor Design and Function May 2013

Dr. Phil Dater, Gemtech
Contra Costa Sheriff's Office Range (24 hours)

- CLETS Training March 2013
Debi Yeager Tech Services
Martinez, CA (4 hours)
- AICC Post Instructor Training October 2012
California POST
Contra Costa LETC (40 hours)
- Sound Level Measurement August 2012
Quest Technologies
Emeryville, CA (8 hours)
- CAC Biannual Seminar May 2012
Multiple Speakers/Presenter
Bakersfield, CA (16 hours)
- ISO Assessors Training October 2011
Anja Enle, ASCLD/LAB
Los Angeles, CA (40 hours)
- AAFS Meeting February 2011
Multiple Speakers
Chicago, IL (40 hours)
- Criteria for Identification Refresher November 2010
John Murdock and Bruce Moran
Sacramento, CA (24 hours)
- Leica Scanning Conference Task Force October 2010
Tony Grissim/Leica GeoSystems
San Ramon, CA (4 hours)
- Leica Laser Scanning for SIR Workshop October 2010
Mike Haag
Contra Costa Sheriff's Office (8 hours)
- Bullet Performance, Perforation of and Deflection May 2010
Luke Haag, Mike Haag
Henderson, NV (8 hours)
- AK & SKS Weapon System Familiarization May 2010
Matt Babb, Long Mountain Outfitters
Henderson, NV (4 hours)
- High Speed Video of Firearms Discharge Events May 2010
Rich Sutherland, Integrated Design Tools
Henderson, NV (4 hours)
- AFTE Meeting May 2010
Various topics
Henderson, NV (24 hours)
- Mini-CMS Workshop April 2010
Bruce Moran and John Murdock
Contra Costa Sheriff's Office (6 hours)
- Machine gun Design and Modification Workshop October 2009
Ed Peterson, CAC
San Jose, CA (8 hours)
- Incident Command System 300/400 August 2009

FEMA
Contra Costa Sheriff's Office (32 hours)

- ISO Primer July 2008
ASCLD/LAB
Oakland, CA (24 hours)
- FX3 Crime Scene Diagramming Software June 2008
Sam El-Said
Contra Costa Sheriff's Office (24 hours)
- Advanced Bloodstain Analysis February 2008
Tom Bevel
FBI-ERT, Oakland, CA (40 hours)
- Ballistic Experiments January 2008
Yuma Proving Grounds
Yuma, AZ (16 hours)
- Firearms Manufacturing January 2008
Ruger Firearms
Prescott, AZ (4 hours)
- Identification of Building Materials September 2007
Bill Schneck, CCI
Sacramento, CA (638 hours)
- Tactics for the Supervisor July 2007
Fred Pryor Training
Clayton, CA (8 hours)
- Supervisor Training (Sergeant) August 2007
Sacramento Regional Training Center
Sacramento, CA (80 hours)
- ISO Standards for Firearms Examiners June 2007
ASCLD/LAB & ISO
San Francisco, CA (4 hours)
- Investigating Long Range Shootings & June 2007
Sniper Cases II; Luke Haag, FSSI
San Francisco, CA (16 hours)
- AFTE Meeting June 2007
Various Topics
San Francisco, CA (40 hours)
- Ballistic Vest Testing February 2007
Gator Hawk, Armor Holdings
Contra Costa Sheriff's Range (8 hours)
- Investigating Long Range Shootings & June 2006
Sniper Cases; Luke Haag, FSSI
Springfield, MA (8 hours)
- Integrity Character, and Ethics in Forensic Science June 2006
Dan Gunnel
Springfield, MA (4 hours)
- AFTE Meeting June 2006
Various Topics/Tour of Manufacturers
Springfield, MA (40 hours)
- Force Options Simulator Instructor April 2006

Jeff Anderson
Contra Costa Sheriff's Office (40 hours)

- Winchester Wound Ballistics Workshop February 2006
Adamsons Police Products
South San Francisco Police Department, CA (4 hours)
- Remington Wound Ballistics Workshop December 2005
Mark Cockman, Remington LE
Union City Police Department, CA (4 hours)
- Patrol Rifle Operator December 2005
Contra Costa Sheriff's Office
Contra Costa Sheriff's Range (24 hours)
- Patrol Rifle Instructor December 2005
Sacramento Regional Training
Sacramento, CA (24 hours)
- Firearms Instructor November 2005
Sacramento Regional Training
Sacramento, CA (80 hours)
- SuperFume Training September 2005
Robert Kelly, Foster Freeman
Martinez, CA (2 hours)
- Gemtech Suppressors and Suppressor Technology June 2005
Philip Dater
Indianapolis, IN (3 hours)
- Firearms Misadventures June 2005
Luke Haag
Indianapolis, IN (8 hours)
- AFTE Meeting June 2005
Various Topics
Indianapolis, IN (40 hours)
- Glock Armorer's Class June 2005
Chad Pierce, Glock
Contra Costa Sheriff's Office Range (8 hours)
- Sig Sauer Armorer's Class June 2005
KC Fredrick, Sigarms
Contra Costa Sheriff's Office Range (16 hours)
- Shooting Reconstruction November 2004
Gunsite/Luke Haag and Mike Haag
Prescott, AZ (44 hours)
- Serial Number Restoration August 2004
Mike Giusto, CCI
Sacramento, CA (24 hours)
- Full Auto Conversions May 2004
Richard Vasquez, BATF
Vancouver, BC (8 hours)
- AFTE Meeting May 2004
Documentation Standard, Ethics
Vancouver, BC (40 hours)
- Armorer's Class (Rem 870, Rem 700, AR-15) February 2004

Ron Fruguiti
Martinez, CA (40 hours)

- Firearms Safety December 2003
Mike Giusto, CCI
Dublin, CA (24 hours)
- Bullet Ricochet April 2003
Luke Haag, FSSI
Reno, NV (8 hours)
- Bloodstain Pattern Analysis October 2002
Tom Bevel, TBI
Oakland, CA (40 hours)
- Clan Lab Processing September 2002
CCI/Department of Justice
Sacramento, CA (40 hours)
- Terminal Ballistics August 2002
Hornady/Nice Shot
Ione, CA (6 hours)
- Basic POST Academy January – May 2002
Contra Costa Sheriff's Office
Antioch, CA (1000+ hours)
- Presumptive Blood Screening October 2001
Santa Clara County Crime Laboratory
San Jose, CA (20 hours)
- Officer Involved Shooting Crime October 2001
Scene Reconstruction/CAC
Oakland, CA (4 hours)
- Latent Prints Processing September 2001
Department of Justice
San Jose, CA (8 hours)
- AFTE Meeting July 2001
Criteria Symposium, Armorer's Class
Newport Beach, CA (40 hours)
- Machine Shop Orientation/Practical December 2000
Northern California Firearms Study Group
Lodi, CA (8 hours)
- AFTE Meeting July 1999
Certification Tests, Criteria Workshop
Williamsburg, VA (40 hours)
- Wound Ballistics Workshop June 1999
International Wounds Ballistics Association
San Mateo, CA (8 hours)
- Toolmark Criteria for Identification May 1999
CCI
Sacramento, CA (40 hours)
- Flourescein Processing December 1998
Santa Clara County Crime Lab
San Jose, CA (8 hours)
- Bullet Path Reconstruction/Analysis September 1998

CCI
Sacramento, CA (40 hours)

- Firearms and Toolmarks Identification II March 1998
CCI
Sacramento, CA (40 hours)
- Firearms and Toolmarks Identification I February 1998
CCI
Sacramento, CA (40 hours)
- Latent Prints Processing September 1997
Santa Clara County Crime Lab
San Jose, CA (16 hours)
- Firearms Examination and Identification November 1996
Santa Clara County Crime Lab thru November 1997
San Jose, CA (1200+ / 600+ hours) continued thru November 2001
- Bullet Path Reconstruction October 1996
Evergreen Community College
San Jose, CA (16 hours)
- IBIS Operation and Administration September 1996
Forensic Technology, Inc.
San Jose, CA (40 hours)
- Crime Scene Investigation I February 1996
CCI
Los Angeles, CA (40 hours)
- Mass Spectra – Theory and Interpretation January 1996
CCI
San Diego, CA (32 hours)
- Firearms Examination November 1995 to April 1996
Los Angeles Police Department/SID
Los Angeles, CA (96 hours)
- Courtroom Testimony October 1995
Ray Davis, CCI
Long Beach, CA (12 hours)
- Crime Scene Processing September to December 1995
Los Angeles Police Department/SID
Los Angeles, CA (128 hours)
- Controlled Substance Analysis May to September 1995
Los Angeles Police Department/SID
Los Angeles, CA (240 hours)

PUBLICATIONS/PRESENTATIONS/RESEARCH

1. US vs Marquette Tibbs, presented at the Northern California Firearms Study Group Meeting, Sacramento, CA, Oct. 30th, 2024.
2. Teslong Digital Borescopes, presented at the Northern California Firearms Study Group Meeting, Sacramento, CA, Nov. 7th, 2023.

3. The Kali Key, presented at the Northern California Firearms Study Group Meeting, San Francisco, CA May 17th, 2023. Also presented during BYOS session at AFTE Austin, 2023.
4. Get the Blood Out! Cleaning Bloody Bullets, presented at the 2021 AFTE meeting, Miami, FL, Aug. 26th, 2021.
5. VR80 Shotgun – California Legal semiautomatic shotgun, Tibbs Motion discussion; presented at the Northern California Firearms Study Group Meeting, Sacramento Co. Crime Lab, Sacramento CA, Nov. 19th, 2019.
6. Get the Blood Out! Cleaning Bloody Bullets, presented at the Northern California Firearms Study Group Meeting, CCI Lab, Sacramento, CA Sept. 18th, 2018.
7. Quantofix Nitrite Sheets, presented at the Northern California Firearms Study Group Meeting, CCI Lab, Sacramento, CA Sept. 18th, 2018.
8. Ghost Glock, Presented at AFTE 2018 meeting BYOS session, Charleston, WV, June 4th, 2018.
9. Taurus PT99AF Project, presented at the Northern California Firearms Study Group Meeting, Santa Clara Co. Crime Lab, April 6th, 2017.
10. Evofinder Research, presented at the Northern California Firearms Study Group Meeting, CCI Lab, Sacramento, CA May 14, 2015.
11. Evofinder Update: How it compares to other ballistic imaging systems. Presented at the Southern California Firearms Study Group Meeting, Orange County Crime Lab, Sept. 18, 2014.
12. Leica Scanner SIR Workshop, with Tony Grissom and Mike Haag, 8 hour workshop presented at the AFTE meeting, Albuquerque, NM, June 23, 2013.
13. Bullet Path Reconstruction: Accuracy, Precision, and Error Rates, presented at the AFTE Meeting, Albuquerque, NM June 6, 2013.
14. Bullet Path Reconstruction: Results of 7 Years of Research, presented at the CAC Northern California Firearms Study Group Meeting, Hayward, CA on May 31, 2012.
15. Bullet Path Reconstruction: Accuracy, Precision, and Error Rates, presented at the CAC Meeting, Bakersfield, CA, May 11, 2012.
16. Bullet Path Reconstruction: Results of 7 Years of Research, presented at the CAC Meeting, Bakersfield, CA, May 10, 2012.
17. Shooting Reconstruction for Crime Scene Responders, with Bruce Moran (Sacramento Co. District Attorney's Crime Lab), Workshop presented at CAC Meeting, Sacramento CA, October 21, 2008.

18. A Bullet to Cartridge Case Identification, presented at the Northern California Firearms Study Group Meeting in Davis, CA, Sept. 17, 2008.
19. Special Threats: The Winchester 9mm 127 grain SXT +P+, presented at the Northern California Firearms Study Group Meeting in Martinez, CA, Sept. 20, 2007.
20. Ballistic Vest Testing, presented at the Northern California Firearms Study Group Meeting in Ripon CA, Jan 25, 2007.
21. A Glock Malfunction presented at the Northern California Firearms Study Group Meeting in Ripon CA, Jan 25, 2007.
22. Shooting Reconstruction for Crime Scene Responders, with Bruce Moran (Sacramento Co. District Attorney's Crime Lab), Workshop presented at CAC/FSS Joint Meeting, Concord, CA, May 9, 2006.
23. The FN FiveSeven pistol versus a ballistic vest, presented at the Northern California Firearms Study Group Meeting in Hayward CA, July 14, 2005.
24. Barrel Casting; Evaluation of Forensic Sil, presented at AFTE Meeting in Indianapolis, Indiana, June 23, 2005.
25. *The California "Assault Weapons" Ban*, article published in Behind Locked Doors, Official publication of the California Association for Property and Evidence, February 2000 Vol.1, pg. 12-15.
26. Cleaning Bloody Bullets with Haemo-sol™, presented at the 3rd Annual IBIS International Users Group Meeting, Portland, Oregon, April 29, 1998.

TEACHING EXPERIENCE

Firearms Examinations: What Forensics Can Do For You, Presented to the Monterey County Public Defender's Office, Monterey CA, November, 19th 2018

Firearms Examinations: What Forensics Can Do For You, Presented to the Stanislaus County Public Defender's Office, Modesto CA, June, 21st 2018

Shooting Incident Reconstruction, with Bruce Moran (Sacramento Co. DA's Crime Lab), 40 hour class presented at Contra Costa Office of the Sheriff Range in association with the California Criminalistics Institute, Oct. 2-6, 2017, April 27-May 1, 2015; June 3-7, 2013; Oct. 17-21, 2011; Sept. 20-24, 2010; May 18-22, 2009; July 7-11, 2008;

LD 40 Weapons Violations, Contra Costa Office of the Sheriff Law Enforcement Academy, Class 169, Dec. 10, 2015; Class 174, July 23, 2015; Class 173, February 6, 2015; Class 172, September 18, 2014; Class 171, June 12, 2014; Class 170, February 20, 2014; Class 169, November 13, 2013; Class 168, June 11, 2013; Class 167, December 7, 2012; Class 166, June 6, 2012; Class, June 15, 2011; Class 165, January 1, 2010; and Class 164, July 22, 2009.

Special Issues in Forensic Firearms Identification, 16-hour Workshop presented at the Fall CAC Seminar in Rohnert Park, CA Oct. 20-21st, 2014

The Science of Gunfighting: Firearms Instructor Course (POST certified), Contra Costa Office of the Sheriff Range, Sept. 29 - Oct. 2, 2014; May 6 - 9, 2013; Oct. 29 - Nov. 1, 2012; Aug. 30, 2010

Laser Scanning for Bullet Path Reconstruction: Accuracy, Precision, and Error Rates, Presented with Tony Grissim from Leica, San Jose SO Range, Sept 21, 2013.

Knobs, Knurls, and Eight Different Directions: Firearms Safety, California Association of Property and Evidence, Annual Seminar Conference meeting, Monterey CA, February 5, 2015, July 18, 2013, February 10, 2011, March 6, 2008.

Knobs, Knurls, and Eight Different Directions: Firearms Safety, Contra Costa Office of the Sheriff Law Enforcement Academy, Class 166, June 16, 2011; Class 165, Jan 4, 2010; Class 164, July 23, 2009; Class 163, February 12, 2009; Class 162, August 14, 2008; Class 161, March 13, 2008; Class 160, October 4, 2007; Class 159, April 5, 2007; Class 158, Oct. 5, 2006.

Machinegun Design and Modification Workshop, CAC Workshop, Santa Clara County Crime Lab, October 26, 2009 (Instructor and Rangemaster for live fire).

Firearms Safety (in association with DOJ/CCI), Contra Costa Sheriff's Range, Nov. 3-5, 2009; April 1-3, 2009; April 22-24, 2008.

Basic Firearms Evidence and Examination, Contra Costa County DA's Office Occasional Training Seminar in Napa, Feb. 3, 2007.

Basic Firearms Safety, Function Testing, and Make and Model Determination Training, Laboratory Aide Donnie Finley, Contra Costa County Crime Laboratory, Nov. 2004.

Bullet Path Reconstruction Training, Several members of the Laboratory Staff and other Law Enforcement agencies in our County, Contra Costa County Crime Laboratory, Aug. 2004

Firearms Safety Training, Several members of the Laboratory Staff, Contra Costa County Crime Laboratory, July 2004.

Make and Model Determination Training, Laboratory Aide Terence Wong, Contra Cost County Crime Laboratory, Jan. 2004.

Shooting Scene Documentation Training, Vallejo PD, Contra Costa County Crime Laboratory, May 2003.

Firearms Function Training, Criminalist Eric Collins, Contra Cost County Crime Laboratory, Dec. 2002.

Make and Model Determination Training, Criminalist Eric Collins, Contra Cost County Crime Laboratory, Oct. 2002.

Basic Firearms Safety and Function Testing, Criminalist Eric Collins, Laboratory Aides Leah Priest and Terence Wong, Contra Costa County Crime Laboratory, Sept. to Oct. 2002.

Basic Firearms Evidence and Examination, San Jose Police Department, March 28, 2001.

Basic Firearms Examination, West Valley College Administration of Justice students, April 12, 1999.

Basic Firearms Safety and Function Testing, Criminalists Eric Barloewen and Rhonda Weiss, Santa Clara County Crime Laboratory, Jan. 11 to Feb. 25 1999. (Ongoing training with Criminalist Barloewen until Sept. 2001).

Basic Firearms Evidence and Examination Class, Santa Clara County Public Defender's Office, Sept. 29 and Oct. 6, 1998.

Basic Firearms Evidence and Examination, Santa Clara County District Attorney's Office, Sept. 4, 1997; and March 24, 1998.

Certified armorer in the following: Colt 1911, Smith & Wesson Pistol/Revolver, H&K USP, Savage bolt action rifle, AR-15/M-16/M-4, Remington 870, Remington 700, Sig Sauer Pistol, Glock, Hi-Point, Springfield Armory M1A and 1911 armorer.

AWARDS

Officer of the Month, Contra Costa Office of the Sheriff, Forensic Services, May 2013.

Officer of the Month, Contra Costa Office of the Sheriff, Forensic Services, Sept. 2004.

Officer of the Year, Contra Costa Office of the Sheriff, Forensic Services, 2003.

Commendation from Mayor Hammer, San Jose, CA, December 1998.