

Stefanie Happ

Sr. Firearms Examiner / Technical Lead/ NIBIN Program Administrator
El Paso County Sheriff's Office / Colorado Springs Police Department

Metro Crime Lab

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Office: 719-444-7674

EDUCATION

Metropolitan State College of Denver, Denver, Colorado ■ May 2006

Bachelor of Science in Chemistry with an emphasis in Criminalistics

Relevant Course Work: Evidence and Courtroom Procedures, Criminalistics I and II, Field Testing and Laboratory Analysis of Controlled Substances, Instrumental Analysis, Analytical Chemistry, Organic Chemistry I and II, Physics, Physical Chemistry, Biochemistry

Red Rocks Community College, Lakewood, Colorado ■ Transfer Student

Relevant Course Work: Substantive Criminal Law, General Chemistry I and II

CERTIFICATIONS

Firearms Evidence Examination and Identification, Certified by the Association of Firearm and Tool Mark Examiners

ADDITIONAL TRAINING

Crime Scene Technician Training Course (40 Hours) Jefferson County Sheriff's Office
March 2006

American Academy of Forensic Science Annual Training Seminar
Seattle, Washington February 2006.

Association of Firearm and Tool Mark Examiners Annual Training Seminar
Honolulu, Hawaii May 19th -23rd, 2008

Medical Death Investigation (16 Hours) Arapahoe County Sheriff's Office - Public
Agency Training Council June 3rd-4th, 2008

HI-Point Firearms Training Course (6 Hours) Colorado Bureau of Investigation, July 25th,
2008

Crime Scene Collection and Approach School (40 Hours) Colorado Bureau of
Investigation, September 29th – October 3rd, 2008

Rocky Mountain Division of the International Association of Identification Annual Training
Conference Colorado Springs, Colorado October 15th-17th, 2008

Technical Writing for Firearms and Tool Mark Examiners (24 Hours) California Criminalistics Institute, February 18th-20th, 2009.

Digital Imaging for the Firearms and Tool Mark Examiner (24 Hours) California Criminalistics Institute, February 23rd-25th, 2009.

Armorer's School: Colt .45 Series Pistols (8 Hours) California Criminalistics Institute, February 27th, 2009.

Firearms Safety (24 Hours) California Criminalistics Institute, April 1st-3rd, 2009.

Firearms and Tool Marks Introduction I and Laboratory I (80 Hours) California Criminalistics Institute, April 6th-17th, 2009.

Firearms and Tool Marks Introduction II and Laboratory II (80 Hours) California Criminalistics Institute, May 4th -15th, 2009.

Shooting Incident Reconstruction (40 Hours) California Criminalistics Institute, May 18th - 22nd, 2009.

Firearms Factory Tours (~40 hrs) California Criminalistics Institute June 9th -19th, 2009
Specific Training Course: Armorer's Training: AK-PKM Zastava (8 Hours)
California Criminalistics Institute, June 12th, 2009.

Armorer's Training: Remington 870 Shotgun (8 Hours) California Criminalistics Institute, August 25th, 2009.

Armorer's Training: Smith and Wesson Pistols (8 Hours) California Criminalistics Institute, August 26th, 2009.

Armorer's Training: AR Series Rifles (16 Hours) California Criminalistics Institute, August 27th -28th, 2009.

Suppressors: Their History, Design, and Testing (16 Hours) California Criminalistics Institute, August 31st- September 1st, 2009.

Full Auto and Conversions (24 Hours) California Criminalistics Institute, September 2nd-4th, 2009.

Serial Number Restoration (24 Hours) California Criminalistics Institute, September 28th-30th, 2009.

Armorer's Training: SIG Pistols (8 Hours) California Criminalistics Institute, October 2nd, 2009.

Tool Mark Comparison Criteria (45 Hours) California Criminalistics Institute, October 5th-9th, 2009.

Courtroom Presentation of Evidence (16 Hours) California Criminalistics Institute, November 5th-6th, 2009.

GSR Distance Determination (40 Hours) Federal Bureau of Investigation (Irvine, California), November 16th-20th, 2009.

Association of Firearm and Tool Mark Examiners Annual Training Seminar Henderson, Nevada May 3rd -7th, 2010.

Specific Training / Workshops: Armorer's Training: Smith and Wesson Academy: M&P Pistols (8 hours) Henderson, Nevada May 6th, 2010.
Contemporary Issues in Firearms Identification (4 hours) Henderson, Nevada May 7th, 2010.

The Ethics of Science and The Science of Ethics (8 hours) Colorado Bureau of Investigation Boulder, Colorado November 9th, 2010.

American Academy of Forensic Science Annual Training Seminar Chicago, Illinois February 21st-25th, 2011

Specific training: Staged Crime Scenes (8 hours) February 21st, 2011

Association of Firearm and Tool Mark Examiners 42nd Annual Training Seminar Chicago Illinois May 29th – June 3rd, 2011

Specific training/workshops: True Crime Case Studies (June 2nd)
Talking Bullets and Talking Cartridge Cases by Lucien Hagg (May 29th)

ISO 17025 Auditing Workshop (20 hours) Colorado Springs, Colorado November 1st-3rd, 2011.

GSR Testing and Analysis: Separating Fact from Fiction Webinar hosted by the RJ Lee Group; Presenters: Allison Murtha, Keena Zitkovich, and Elana Somple January 19th, 2012

Association of Firearm and Tool Mark Examiners 43rd Annual Training Seminar Buffalo, New York June 23rd-June 29th, 2012

Specific Training/workshops: Colt AR-15 Rifle Armorer's Course (8hrs)

Association of Firearm and Tool Mark Examiners 44th Annual Training Seminar Albuquerque, New Mexico June 23rd – June 29th, 2013

Specific Training/Workshops: Subclass Characteristics Workshop

Shooting Reconstruction: The 4 Elements of Trajectory webinar hosted by the Forensic Technology Center of Excellence May 23, 2014

Special Topics in GSR webinar hosted by the Forensic Technology Center of Excellence Presenters: Dana Greely and J. Matney Wyatt January 27, 2015

False-Positive and False-Negative Error Rates in Cartridge Case Comparisons webinar hosted by the Forensic Technology Center of Excellence March 5, 2015

Association of Firearm and Tool Mark Examiners 46th Annual Training Seminar Dallas, Texas May 24th – May 29th, 2015

Specific Training/Workshops:
Gunshot and Shotgun Injuries (8hrs)
Glock Armorer Course (8hrs)

Association of Firearms and Tool Mark Examiners 47th Annual Training Seminar
New Orleans, LA. May 29th – June 3, 2016

Specific Training/Workshops:

Practical Shooting Incident Reconstruction (6hrs)

Report Writing and Testimony for Shooting Incident Reconstruction (4hrs)

Ethics In Law Enforcement (8 hrs) Colorado Springs, Colorado STRATA Center for
Public Safety

Association of Firearms and Tool Mark Examiners 48th Annual Training Seminar
Denver, CO. May 14th -19th, 2017

Forensic Shooting Incident Reconstruction Course, Forensic Science Consultants (M.
Haag), Ft Collins, CO. July 24th – 28th, 2017 (~40hrs)

Association of Firearms and Tool Mark Examiners 49th Annual Training Seminar
Charleston, WV. June 3-8, 2018

Specific Training/Workshops:

Understanding the Math of Bullet Path Analysis (4hrs)

ANAB ISO/IEC 17025:2005 Forensic Science Testing Accreditation
Requirements as it Applies to Firearms Identification (4hrs)

Springfield Armory XD/XDm Armorers course (8hrs) Westminster, Colorado July 24th,
2018

Association of Firearms and Tool Mark Examiners 50th Annual Training Seminar
Nashville, TN. May 26th – 31st, 2019

Sig Sauer P320 Armorers Course (8hrs) Lakewood, Colorado April 21, 2021

Association of Firearms and Tool Mark Examiners 51st Annual Training Seminar
Miami, FL. August 22nd – 27th, 2021

Association of Firearms and Tool Mark Examiners 52nd Annual Training Seminar
Atlanta, GA. May 29-June 3, 2022

Firearms and Toolmark Examination Courtroom Admissibility, Error Rates, Critics and
Other Contemporaneous Issues - Weller Forensics July 12-13, 2022

Association of Firearms and Tool Mark Examiners (Online Course) Manufacturing
Methods of Glock Pistols November 16, 2022

Association of Firearms and Tool Mark Examiners 53rd Annual Training Seminar
Austin, TX. May 21 – May 26, 2023

Association of Firearms and Tool Mark Examiners 54th Annual Training Seminar
Anchorage, AK. May 26 – May 31, 2024

RELAVENT EXPERIENCE

Sr. Firearms Examiner / Technical Lead / NIBIN Program Administrator

El Paso County Sheriff's Office – Metro Crime Laboratory, Colorado Springs, Colorado
October 29, 2007 – Present

- Mechanical functioning examinations
- Tool mark comparisons
- Proximity testing (Distance to Target)
- Serial number restoration
- Shooting Incident Reconstruction
- NIBIN Administrator
- Development and maintenance of Unit's Standard Operating Procedures in accordance with ISO/IEC 17025 standards.
- Management Review and Internal Audit Team member
- Coordinates and supervises training for Examiners and Technicians within the Firearms Unit
- Case management and technical oversight/review of all firearms related casework.
- NIBIN Program Administrator

Bureau of Alcohol, Tobacco, Firearms and Explosives National Firearm Examiner
Academy (NFEA) Instructor
2023 - Present

Fingerprint Examiner Intern

Colorado Bureau of Investigation - Identification Section, Denver, Colorado,
May 14, 2007 – October 15, 2007

Processing of ten print fingerprint cards from law enforcement agencies and required civilian agencies throughout the state including:

- Fingerprint classifications, comparisons, evaluations, and identifications utilizing A.F.I.S.
- C.C.I.C and N.C.I.C. record checks
- The creation/maintenance of C.C.I. C. and N.C.I.C records.
- Live Scan fingerprinting

Crime Lab Intern

Jefferson County Sheriff's Office - Crime Laboratory, Golden, Colorado

August 2005 – October 2007

Performed/assisted with the essential duties of a Criminalist in the laboratory setting and at crime scenes under strict supervision of other Criminalists. These duties included:

- Fingerprint processing utilizing various chemical and powder techniques
- Fingerprint comparisons, evaluations, and identifications
- A.F.I.S. entry of appropriate quality prints
- Ink fingerprinting for ten print fingerprint cards
- Crime scene processing
- Evidence collection and preservation
- Evidence and crime scene photography
- Controlled substance analysis by means of visual macroscopic and/or microscopic analysis, presumptive color screening tests, various chemical

extractions, and instrumental analysis utilizing Gas Chromatography/
Mass Spectrometry and/or F.T.I.R.

- Monthly reagent and scale check for quality control purposes
- Data entry and case file maintenance

PROFESSIONAL ASSOCIATIONS

Association of Firearms and Tool Mark Examiners (AFTE)

Provisional Member May 2009 – September 2012

Regular Member September 2012 - Present

2012 – Present Glossary Subcommittee (Chair as of May 2024)

2017 AFTE Host Committee Member

Aug 2018 – 2021 Process Mapping Project Committee

2019 AFTE Host Committee Member

2021-2023 AFTE Board of Admissions Member

OSAC – Firearms and Toolmarks Subcommittee Member 2019 - Present