

Jill R. Therriault
Firearms Examiner
Co-Founder of KLTW Group

SPECIALIZATION

Pattern Evidence: Conducts examinations of physical evidence to develop and preserve questioned marks or impressions for comparison to known sources and determine their level of association.

Firearms microscopy	November 2006 – present
Firearms functionality	November 2006 – present
Toolmarks	November 2006 – present
Obliterated serial number recovery	November 2006 – present
Gunshot residue / muzzle-to-target shooting distance determination	November 2006 – present
Footwear / Tire examination	November 2006 – January 2014 July 2022 – present
Physical match examination	April 2021 – present
Crime Scene processing	October 2021 – present

EDUCATION

Bachelor of Science Rutgers University, New Brunswick, NJ Major: Animal Science	Completed January 2001
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PROFESSIONAL ASSOCIATIONS

Certifications

Firearm Evidence Examination and Identification, Association of Firearm & Tool Mark Examiners (AFTE)	2009 – present
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Memberships

Regular Member, Association of Firearm & Tool Mark Examiners	2009 – present
Provisional Member, Association of Firearm & Tool Mark Examiners	2004 – 2009
Active Member, New England Division of the International Association for Identification	2021 – present
Active Member, International Association for Identification	2021 – present

Activities

Member, AFTE Website Committee	2010 – present
Webmaster	2024 – present
Social Media Subcommittee	2021 - present
Headstamp Gallery Administrator	2010 – 2021

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Co-Chair, AFTE Electronic Resources Committee	2019 – present
Member, AFTE Electronic Resources Committee	2013 – 2019
Member, AFTE Scientific Advancement Committee	2016 – 2023
Host committee member, 40 th Annual AFTE Training Seminar	2008 – 2009

PROFESSIONAL EXPERIENCE

Criminalist II New Hampshire State Police Forensic Laboratory Pattern Evidence Unit Concord, NH	December 2019 – present
Forensic Science Examiner 2 Department of Emergency Services and Public Protection Division of Scientific Services, Firearms Unit Meriden, CT	January 2014 – December 2019
Criminalist 2 Forensic Services Bureau, Firearms Identification Unit Miami-Dade Police Department Miami, FL	November 2006 – January 2014
Criminalist 1 Forensic Services Bureau, Firearms Identification Unit Miami-Dade Police Department Miami, FL	March 2004 – November 2006

CONTINUING EDUCATION

Training

The Evaluation and Documentation of Subclass Characteristics AFTE, Anchorage, AK	2024
Firearms and Explosives Identification and Emerging Trends ATF, Concord, NH	2024
Novel Non-Destructive Serial Number Recovery Association of Firearm and Tool Mark Examiners (web-based)	2023
Glock: History, Manufacturing, and Evolution Association of Firearm and Tool Mark Examiners (web-based)	2023
Manufacturing Methods of Glock Pistols Association of Firearm and Tool Mark Examiners (web-based)	2022

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80% Guns: A Current Discussion of What Examiner Are Encountering on the Bench Association of Firearm and Tool Mark Examiners (web-based)	2022
Firearms and Toolmarks Policy and Practice Forum Forensic Technology Center of Excellence (web-based)	2022
Microsoft Excel for the Firearms Examiner workshop AFTE, Miami, FL	2021
Algorithms in Forensic Science: Challenges, Considerations, and a Path Forward Center for Statistics and Applications in Forensic Science (CSAFE) (web-based)	2021
Assessing Footwear Examiner Performance Center for Statistics and Applications in Forensic Science (CSAFE) (web-based)	2021
Footwear and Tire Track Updates Forensic Photography Crime Scene Processing Spring Lecture Series, New England Division of the IAI (web-based)	2021
Statistical Thinking for Forensic Practitioners CSAFE (web-based)	2021
Treatment of Inconclusive Results in Error Rates of Firearms Studies CSAFE (web-based)	2021
Portable Advanced 3D Imaging for Footwear/Tire Track Impression Capture Forensic Technology Center for Excellence (FTCOE) (web-based)	2021
Sample Case Work-Up Using 3D Virtual Comparison Microscopy Tools Cadre Forensics (web-based)	2021
Results of the 2019 3D Virtual Comparison Microscopy Topography Resolution Study Cadre Forensics (web-based)	2020
Firearms Workshop CSAFE (web-based)	2020
Advanced Training for Firearm and Toolmark Examiners: Shifting the Paradigm Nichols Forensics (web-based)	2020
Managing Cognitive Bias in Forensic Examinations Elite Forensic Services and Evolve Forensics (web-based)	2020

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Communicating Forensic Findings Midwest Association of Forensic Scientists (MAFS) (web-based)	2020
Testimony Related Issues – Preparation for Daubert and Evidentiary Hearings in Firearms and Toolmark Identification Nichols Forensics, Meriden, CT	2019
Consecutive Matching Striations (CMS); Theory and Practice Nichols Forensics, Meriden, CT	2019
Subclass Characteristics – Definitions, Origins, and Recognition; Review of the Literature; Machining Fundamentals Nichols Forensics, Meriden, CT	2018
Smith & Wesson M&P Pistol Series Armorers Course Smith & Wesson Academy, Springfield, MA	2016
Ammunition Identification and CartWinPro workshop AFTE, New Orleans, LA	2016
Symposium on Forensic Crime Scenes with Henry C. Lee Miami-Dade College, North Campus, Miami, FL	2012
SWG-GUN Evidence Admissibility Workshop Florida Department of Law Enforcement (FDLE), Orlando, FL	2012
Use of Shoeprint Image Capture and Retrieval (SICAR) Database Foster & Freeman, Miami, FL	2010
Toolmark Comparison Criteria California Criminalistics Institute, Miami, FL	2009
ASCLD/LAB-International Assessor Training Course ASCLD/LAB Introduction to ISO/IEC 17025:2005 ASCLD/LAB, San Antonio, TX	2009
Gun Powder and Gunshot Residue School FBI Laboratory, Firearms-Toolmarks Unit, Miami, FL	2008
Barrel Manufacturing workshop Basics of Firearm Mechanisms workshop Trajectory Reconstruction & 3D Scanning workshop AFTE, Honolulu, HI	2008
The Detection, Recovery and Examination of Footwear Impression Evidence William Bodziak and MDPD Metropolitan Police Institute, Miami, FL	2007

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Expert Witness Testimony and Techniques Ron Smith & Associates, Miami, FL	2007
Leadership and Ethics MDPD Metropolitan Police Institute, Miami, FL	2007
Crime Scene Reconstruction Jan Johnson and MDPD Metropolitan Police Institute, Miami, FL	2007
Sporting, Hunting, and Outdoor Trade (SHOT) Show Orlando, FL	2007
The Examination of Tire Impression and Tire Track Evidence William Bodziak and MDPD Metropolitan Police Institute, Miami, FL	2006
Glock Armorers Course Glock Professional, Miami, FL	2006
Sporting, Hunting, and Outdoor Trade (SHOT) Show Las Vegas, NV	2006
Sig Sauer Armorers Course Sig Arms Academy, Coconut Creek, FL	2005
IBIS Basic Users Training Forensic Technology, Inc., Largo, FL	2005
Footwear Impression: Comparison and Examination Ron Smith & Associates, Largo, FL	2005
Serial Number Restoration Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF), Miami, FL	2005
Sporting, Hunting, and Outdoor Trade (SHOT) Show Las Vegas, NV	2005
Heckler & Koch Armorers Course (MP5/Rifles/Trigger Group/USP) H&K International Training Division, Sterling, VA	2004
Introduction to Digital Photography MDPD Metropolitan Police Institute, Miami, FL	2004
Expert Witness Testimony MDPD Metropolitan Police Institute, Miami, FL	2004

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National Firearms Examiner Academy (NFEA) Bureau of Alcohol, Tobacco, Firearms and Explosives, Ammendale, MD	March 2004 – March 2005
Firearm/Toolmark & Footwear/Tire Track Examiner Training, In-House Miami-Dade Police Department Crime Laboratory, Miami, FL	March 2004 – November 2006

Tours

Cody Firearms Museum (web-based), Cody, WY	2020
Museum of Connecticut History: The Colt Collection, Hartford, CT	2019
Marshall University Advanced Manufacturing, Charleston, WV	2018
Microbest, Waterbury, CT	2017
New York State Police Forensic Laboratory, Albany, NY	2017
Drill Masters/El Dorado Tool Company, Milford, CT	2014
Wilson Arms, Branford, CT	2014
Texas Department of Safety Crime Laboratory System (Austin, Tyler labs)	2012
Kentucky State Police Crime Laboratory System (Louisville, Jefferson labs)	2011
Taurus International, Miami, FL	2004, 2008, 2009
Kel-Tec CNC Industries, Cocoa Beach, FL	2008
Reed-Knight Industries and Knight Armament, Titusville, FL	2008
Broward Sheriff's Office Crime Laboratory, Ft. Lauderdale, FL	2004
ATF Forensic Science Laboratory, Ammendale, MD	2004
ATF Fire Research Laboratory, Ammendale, MD	2004
Smithsonian Institute, Washington, DC	2004
Remington Arms Company Ammunition and Components Plant, Lonoke, AR	2004
Heckler & Koch, Sterling, VA	2004
ATF Firearms Technology Branch, Martinsburg, WV	2004
Sturm, Ruger, & Co., Newport, NH	2004
Burbak Injection Molding & Tools, Wilton, NH	2004
SigArms, Exeter, NH	2004
Marlin Firearms, North Haven, CT	2004
Mossberg Shotguns, North Haven, CT	2004
Smith & Wesson, Springfield, MA	2004
Springfield Armory, Springfield, MA	2004
Savage Arms, Westfield, MA	2004
Charter Arms, Shelton, CT	2004
Lyman Tools, Middletown, CT	2004
Harrington & Richardson 1871, LLC, Gardner, MA	2004
Kahr Arms, Worcester, MA	2004
Drill Master Tools, Milford, CT	2004
Connecticut Shotgun, New Britain, CT	2004
Winchester U.S. Repeating Arms, New Haven, CT	2004
U.S. Firearms Manufacturing Company, Inc., Hartford, CT	2004
Colt Manufacturing Company, Hartford, CT	2004

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Meetings Attended

AFTE Training Seminar

Anchorage, AK	2024
Austin, TX	2023
Atlanta, GA	2022
Miami, FL	2021
Nashville, TN (web-based)	2019
Charleston, WV	2018
New Orleans, LA	2016
Seattle, WA	2014
Henderson, NV	2010
Miami Beach, FL	2009
Honolulu, HI	2008
Indianapolis, IN	2005

New England / Northeast Area Firearms Examiner Training Seminar

Meriden, CT	2023
Maynard, MA	2022
Waterbury, VT	2019
Albany, NY	2017
East Hartford, CT	2016
East Hartford, CT	2014

Other Meetings Attended

Midwest Firearm Training Seminar (web-based)

Midwest Area Firearms Examiners	2020, 2021
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Forensic Science Symposium

Florida International University International Forensic Research Institute, Miami, FL	2012, 2013
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South Florida Firearm & Toolmark Discipline Meeting

Miami, FL	2010, 2012
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South Florida Firearm & Toolmark Discipline Meeting

Cooper City, FL	2011
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International Association for Identification 94th International Educational Conference

Tampa, FL	2009
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PROFESSIONAL ACTIVITIES

Presentations/Lectures

<i>Forensic Scientist to Forensic Leader</i> workshop AFTE Training Seminar, Anchorage, AK	2024
<i>Firearms Identification Overview</i> for class entitled “Law and Forensic Science” Quinnipiac University School of Law, Hamden, CT	2019
<i>Firearms Identification Overview</i> for class entitled “Law and Forensic Science” University of Connecticut School of Law, Hartford, CT	2014 – 2015, 2017 – 2019
<i>QR Codes & Serial Numbers</i> Northeast Area Firearms Examiner Training Seminar, Waterbury, VT	2019
<i>Conversion of a Simunition Training Kit</i> New England Area Firearms Examiner Training Seminar, Albany, NY	2018
<i>NIBIN Inside the CT Border</i> New England Area Firearms Examiner Training Seminar, East Hartford, CT	2016
<i>A “Fired” .32 Auto Cartridge Case</i> New England Area Firearms Examiner Training Seminar, East Hartford, CT	2014
<i>Fashion Meets Firearms: A Study of Metallic Nail Polish Application to Magnetic Particle Inspection for Serial Number Restoration</i> <ul style="list-style-type: none">• AFTE Training Seminar, Seattle, WA• New England Area Firearms Examiner Training Seminar, East Hartford, CT• South Florida Firearms Discipline Meeting, Miami, FL	2014 2014 2012
<i>The Misleading Ejector Mark: A Closer Look at an Unusual Toolmark on .223 Rem Casings</i> <ul style="list-style-type: none">• South Florida Firearms Discipline Meeting, Cooper City, FL• AFTE Training Seminar, Henderson, NV	2011 2010
<i>Serial Number Restoration in Scandium and Titanium Firearms</i> <ul style="list-style-type: none">• AFTE Training Seminar, Miami Beach, FL• National Firearms Examiner Academy, Ammendale, MD	2009 2005
<i>Crime Scene Reconstruction – Overview of the National Integrated Ballistic Information Network</i> Miami-Dade Police Department Metropolitan Police Institute, Miami, FL	2007
<i>Crime Scene Investigations II – Overview of Footwear and Tire Track Evidence and Collection</i> Miami-Dade Police Department Public Safety Training Institute, Miami, FL	2007 – 2011

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Firearms Identification Overview

Connecticut State's Attorney's Office, New Britain, CT	2017
Connecticut State's Attorney's Office, Hartford, CT	2016
Connecticut Public Defender's Office, Meriden, CT	2015
Connecticut State's Attorney's Office, New Haven, CT	2015
CT Law Enforcement Council, Meriden, CT	2014

Other Professional Activities

Technical Assessor, American Society of Crime Laboratory Directors/Laboratory Accreditation Board (ASCLD/LAB)

Texas Department of Safety Laboratory System	2012
Kentucky State Police Crime Laboratory System	2011

Revised: August 2024