

Forensic Scientist Profile

Scientific analysis of firearm, tool mark and less lethal weapon evidence related to the investigation of incidents. Consulting, analysis, report generation and expert witness testimony of conclusions in courts of law.

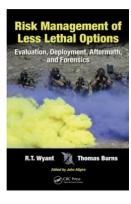
- Bullet, cartridge case, tool comparison
- Firearm operability/serial restoration
- Proximity determination/gunshot residue
- Less lethal weapons / TASER analysis
- Police use of force consulting
- 3D High Definition Scanning (HDS)

- Long distance shooting analysis
- Shooting scene / trajectory reconstruction
- Evidence interpretation and empirical testing
- Officer involved shooting investigation
- Wound interpretation
- Aerial photography and photogrammetry

Analyzed evidence and/or documentation related to shootings and the deployment of TASERs in 22 US states and international jurisdictions, including Washington State, Colorado, Florida, California, Illinois, Oregon, Texas, Michigan, Maine, New Mexico, Louisiana, South Dakota, New York, Delaware, Ohio, Arkansas, Idaho, Wyoming, Arizona, South Carolina, Alaska, Arizona, District of Columbia, Ontario, British Columbia, United Kingdom, and Queensland Australia.

Testified over 150 times as an expert witness in state and US federal courts in both criminal and civil cases over a 20-year career, including a Frye hearing on TASER evidence (Washington State vs. James, King County Superior Court, June 2010).

Taught courses in shooting reconstruction and the deployment and investigation of less lethal weapon deployments. Developed modern TASER forensics in 2001, as well as forensic testing protocols for other less lethal options for law enforcement. In 2014, published a comprehensive textbook culminating over a decade of research and analysis of less lethal weapons, titled "**Risk Management of Less Lethal Options**".



In addition to an extensive background in forensics, research, instruction in shooting reconstruction and teaching at ATF, has law enforcement training and experience as a reserve deputy. Since 2000, performed solo calls for service, bicycle patrol, search and rescue, and handled a cadaver K9.

Certified as a commercial FAA drone pilot (Part 107) to utilize this technology for scene documentation and incident reconstruction.

Education

Master of Science, Colorado State University, Ft. Collins, Co- Anatomy (forensic emphasis), Aug 1994

Bachelor of Science, Colorado State University, Ft. Collins, Co- Microbiology, May 1993



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Employment

 Forensic Scientist V, firearm/tool mark section supervisor, Washington State Patrol, Seattle, WA May 2008- Present
 Forensic Scientist III, firearm/tool mark examiner, Washington State Patrol, Marysville/Seattle, WA November 1998- May 2008
 Cofounder WD Forensic, Inc., Seattle, WA April 2015-Present
 Reserve Deputy Sheriff, Snohomish County, WA June 2000- Present Search and rescue (cadaver K9 handler) and bicycle patrol
 Cofounder CRT Less Lethal Inc., Seattle, WA March 2003-December 2015
 Criminalist III, firearm/tool mark examiner, Texas Department of Public Safety, Austin, TX November 1995- November 1998

Professional Training: Forensic Courses and Seminars

Firearm/Tool mark Analysis Training, Texas Dept. of Public Safety, Nov 1995-Dec 1996

Firearms and Ballistics Seminar, University of Texas-Austin, March 1996

South Western Association of Forensic Scientists Meeting, October 1996, April 1997

Association of Firearm and Tool mark Examiners Conference, Tampa, FL, July 1998

Association of Firearm and Tool mark Examiners Conference, Williamsburg, VA July 1999

Expert Courtroom Testimony, Snohomish County(WA) Prosecutor- May 2001

Association of Firearm and Tool mark Examiners Conference, Newport Beach, CA, July 2001

Association of Firearm and Tool mark Examiners Conference, San Antonio, TX, May 2002

BATF NIBIN Training, Ft. Myers, FL, February 2003

Bloodstain Pattern Analysis, Dan Chrisman (40 hour), Bothell, WA, July 2003

Investigation of Lethal Encounters, Force Science Center, Burien, WA, June 2005

Canadian Officer Safety Conference, Victoria, British Columbia, September 2005

American Academy of Forensic Sciences Conference, Seattle, WA, February 2006

Association of Firearm and Tool mark Examiners Conference, San Francisco, CA 2007

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Association of Firearm and Tool mark Examiners Conference, Honolulu, HI 2008 Shooting Scene Reconstruction (40 hour), Michael Haag, Eugene, OR August 2008 Evidence Collection of TASER devices, Ft. Lewis, WA September 2008 American Academy of Forensic Sciences Conference, Denver, CO February 2009 Association of Firearm and Tool mark Examiners Training Seminar, Miami, FL 2009 Association of Firearm and Tool mark Examiners Training Seminar, Henderson, NV 2010 Association of Firearm and Tool mark Examiners Training Seminar, Chicago, IL, May 2011 NIST Electroshock Weapons Workshop, Gaithersburg, MD, January 2011 NIJ Excited Delirium Syndrome Workshop, Seattle, WA, April 2011 Association of Firearm and Tool mark Examiners Training Seminar, Albuquerque, NM, June 2013 American Academy of Forensic Sciences Conference, Seattle, WA, February 2014 Association of Firearm and Tool mark Examiners Training Seminar, Seattle, WA, May 2014 National Rifle Association- Range Development and Operations Course, February 2015 Association of Firearm and Tool mark Examiners Training Seminar, Dallas, TX, May 2015 Master 16, Advanced Death Investigation conf., St. Louis U. School of Medicine, St. Louis, MO, July 2015 Association of Firearm and Tool mark Examiners Training Seminar, New Orleans, NO, May 2016 >Report Writing and Testimony for Shooting Incident Reconstruction, Scanlan/Rauch, 4 hours Shooting Incident Reconstruction (24 hour), Michael Haag, Bend, OR October 2016 Association of Firearm and Tool mark Examiners Training Seminar, Denver, CO, May 2017 The Reconstruction of Vehicle Shootings, Luke Haag, 8 hours

Shooting Scene Reconstruction (40 hour), Michael Haag, Snoqualmie, WA, September 2017



Association for Crime Scene Reconstruction (ACSR), Tacoma, WA, *March 2018* •UAS (Drone) Use in Forensic Reconstruction •BLK360 3D HDS Laser Scanner Field Operations and Register360 software

Association of Firearm and Tool mark Examiners 50th Training Seminar, Nashville, TN, May 2019

Armorer Courses

Sigarms (pistols, 1997)	Remington (shotgun & rifle, 1997)
Glock (pistols, 1998, 2002)	Heckler & Koch (SMG, shotgun, USP, 1997, 2003)
Smith & Wesson (pistol, revolver 1997)	Colt (M16/AR15 rifle, 2004)
Ruger (Mini 14 rifle, 1997)	PepperBall (2005)
Smith & Wesson (M&P, 2009)	TASER (M26 and X26, 2005)
FN303 (March 2018)	PepperBall (April 2018)

Less Lethal and Law Enforcement Courses

Advanced TASER Instructor, Seattle, WA *October 2002, June 2003* TASER Master Instructor Conference, Las Vegas, NV *April 2004* TASER Master Instructor Conference, Scottsdale, AZ *April 2005* PepperBall Instructor Course, Tacoma WA, *June 2005* TASER Master Instructor Conference, Las Vegas, NV *May 2006* TASER Master Instructor Conference, Scottsdale, AZ *July 2009* Evidence Collection of TASER devices, Ft. Lewis, WA *September 2008* NIST (Na. Inst. of Standards and Technology) Electroshock Weapons Workshop, Gaithersburg, MD *Jan 2011* NIJ (National Institute of Justice) Excited Delirium Syndrome Workshop, Seattle, WA *April 2011* Safariland (Defense Technology) Less Lethal Instructor (4 day) Kent, WA *December 2012* National Tactical Officer's Association Less Lethal Instructor (5 day) Portland, OR *April 2015*



National Tactical Officer's Association Conference, Louisville, KY, *August 2016* • Responding to Unmanned Aircraft Intrusions, Anthony Galante, 8 hours

Use of Force Investigator's Conference, Society for the Integrity in Force Investigation Reporting, Seattle, WA, *January 2017;* Mesa, AZ, *November 2017*; Henderson, NV September 2018

FN303 Instructor Course, Portland, OR, March 2018

PepperBall Instructor Course, Northbend WA, April 2018

FAA Remote Pilot Exam Preparation Course (18 hour), Renton WA, May 2018

National Tactical Officer's Association Less Lethal Instructor, recertification (10 hour) March 2019

TASER (Axon) Instructor Course (incl. X26P, X2, and TASER7 models), Eugene, OR January 2020

Less Lethal Weapons Testing

Impact Munitions

Developed a forensic testing protocol to apply to a variety of less-lethal impact ordnance (12 gauge, 37/40mm bean bags, sponge rounds, batons and others including Pepperball, FN303, etc). The model was intended to predict injury potential by utilizing ballistic media (gelatin and soap) to determine relative impact energy, penetration potential and relative lethality. This testing model has been validated when compared to wound profiles and ultrasound scans of affected areas. *March* 2003, *July 2004, July 2005, May 2010, June 2012, July 2015, January 2019*

TASER and Pepper Spray Flammability

Established a realistic and reproducible testing protocol to determine flammability potential of chemical sprays when a TASER device is deployed simultaneously. Over 60 types of Oleoresin Capsicum and CS aerosols were evaluated using the TASER M26 and TASER X26 under controlled conditions. This testing protocol has been widely adopted by manufacturers and police agencies to determine flammability potential. *2004-2009*

Effectiveness and Wound Profiling

Applied conducted electrical weapons, chemical agents, and less lethal impact munitions to human volunteers for the purposes testing effectiveness, documenting wound progression and comparison to forensic models. This testing was featured on Discovery Channel Canada (2004, 2006, 2010, 2012) and the History Channel (2014), and the Seattle Fox affiliate Q13 (2013, 2014).

Distraction Devices

Conducted testing of flashbangs in a typical household environment to evaluate flammability potential and if that potential is significantly increased with the introduction of CS (tear gas) particles into the airspace. The testing was featured on the Seattle Fox affiliate Q13 and published in the Tactical Edge magazine.



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Professional Presentations

- "TASER- A new blast from the past" Association of Firearm and Tool mark Examiners Conference, Newport Beach, CA July 2001
- "KIP- Knife Identification Project" Association of Firearm and Tool mark Examiners Conference, San Antonio, TX May 2002
- "TASER- Revisited" Association of Firearm and Tool mark Examiners Conference, San Antonio, TX May 2002
- "Forensic Testing of TASER Weapons" Tactical TASER Conference, Las Vegas, NV April 2004 Los Angeles County Coroner February 2005
- "Selection, Evaluation, and Forensic Analysis of Less Lethal Impact Munitions, Flammability of OC and TASER" Canadian Officer Safety Conference, Victoria, British Columbia September 2005
- "Flammability Testing of OC and TASER" TASER Conference and Policy Forum, Scottsdale, AZ April 2005, August 2005 Las Vegas, NV May 2006
- "Forensic Evaluation of Less Lethal Impact Munitions" American Academy of Forensic Sciences Conference, Seattle, WA *February 2006*
- "Comparison of Stinger and TASER Electronic Control Devices" European TASER Master Instructor School, Amsterdam, Netherlands September 2006
- "Evaluation, Testing, and Forensic Analysis of Less-Lethal Systems"
 Joint Integration Project, Non Lethal Weapons Directorate, Fort Irwin, CA January 2007
 Association of Crime Scene Reconstruction, Seattle, WA February 2007
 Gatlinburg Law Enforcement Conference, Gatlinburg, TN May 2007
 Vancouver Police Department, Vancouver, WA October 2007
- "Forensic Investigation of Electronic Control Devices (TASER)"-Workshop AFTE Annual Training Seminar, San Francisco, CA *May 2007*
- "Less Lethal Impact Munitions, Comparison of Human Analogs vs. Live Subjects" Association of Firearms and Tool mark Examiners Conference, Honolulu, HI May 2008
- "Forensic Analysis of Electronic Control Devices" LGC Forensics, United Kingdom *December 2008*
- "Determination of Electronic Control Device (TASER) Duration" American Academy of Forensic Sciences Conference, Denver, Co *February 2009* Association of Firearms and Tool mark Examiners Conference, Miami, FL *May 2009*

"Forensic Analysis of Electronic Control Devices" Association of Firearm and Tool mark Examiners Conference, Miami, FL June 2009 Tactical TASER Conference Fountain Springs AZ July 2009 Violent Crime Investigators Conference, Burien WA November 2009

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- "Evaluation, Testing, and Forensic Analysis of Less-Lethal Systems" Vancouver Police Department, Vancouver, WA October 2009
- "Forensic Analysis of Electronic Control Devices" Violent Crime Investigators Conference, Burien WA *November 2009*
- "Forensic Investigation of Electronic Control Devices (TASER)" Hands-on Workshop-8 hours RCMP/Carleton University, Ottawa, Ontario Canada May 2009 Minneapolis Police Department, Minneapolis, MN March 2010 AFTE Annual Training Seminar, Henderson, NV May 2010
- "From the Box to the Courtroom: Improving your TASER Program"-Workshop Belgium Police Service- Brussels, Belgium *May 2011* Oregon State Police Crime Laboratory, Portland, OR *July 2011* Louisville Police Department, Louisville, KY *June 2012*
- "Patrol Response to Excited Delirium"- NIJ Workshop, Seattle, WA April 2011
- "Evaluation, Testing, and Forensic Analysis of Less-Lethal Systems" Illinois Tactical Officers Association, Chicago IL, May 2012
- "Utilizing Sonography for the Interpretation of Wounds from 40mm Less Lethal Impact Munitions" American Academy of Forensic Sciences Conference, Seattle, WA *February 2014*
- "Less Lethal Deployments: Increase success while Minimizing Risk" Oregon Washington Lawmen's Association (OWLA), Leavenworth, WA *October 2014*
- "Over the River and....The Gadwa Long Distance Shooting Reconstruction" Association of Firearm and Tool mark Examiners (AFTE) 46th Annual Training Seminar, Dallas, TX May 2015
- "Forensic Considerations of Less Lethal Weapon Deployments"
 Masters 16, Advanced Death Investigation Conference, St. Louis U. School of Medicine, St. Louis, MO July 2015
 Oregon Association of Licensed Investigators, Cottage Grove, OR October 2015
- "Halloween Ambush: An Execution of a Seattle Police Officer" Association of Firearm and Tool mark Examiners (AFTE) 47th Annual Training Seminar, New Orleans, NO May 2016
- "NIBIN as an Investigative Tool: Seattle Methodologies and Successes" Association of Firearm and Tool mark Examiners (AFTE) 47th Annual Training Seminar, New Orleans, NO May 2016
- "Forensic Investigation of Electronic Control Devices (TASER) and Less Lethal Weapon Deployments"-Hands-on Workshop-8 hours, PNWD-IAI Training conference, Tulalip, WA June 2016
- "Bullet Behavior: Separating Myth from Reality in Tactical Operations" National Tactical Officer's Association Conference, Louisville, KY, *August 2016*
- "Risk Management for Less Lethal Deployments (4 hours)"- National Tactical Officer's Association Conference, Louisville, KY, *August 2016*



- "TASER and Firearm Evidence" 2017 Use of Force Investigator's Conference, Society for the Integrity in Force Investigation Reporting, Seattle, WA, *January 2017*
- "Pixel This: High Speed Videography" (6 hour workshop) Association of Firearm and Tool mark Examiners (AFTE) 48th Annual Training Seminar, Denver, CO May 2017
- "Light it up to slow it down: Applications of High Speed Videography for the Firearms Examiner" Association of Firearm and Tool mark Examiners (AFTE) 48th Annual Training Seminar, Denver, CO May 2017
- "Less Lethal, TASER and Shooting Incidents" 2017 Use of Force Investigator's Conference, Society for the Integrity in Force Investigation Reporting, Mesa, AZ, November 2017
- "The Critical Angle of Bullet Impacts in Common Materials Seen in Forensic Casework" American Academy of Forensic Sciences Conference, Seattle, WA *February 2018*
- "TASER Marks in Clothing" (evening session) Association for Crime Scene Reconstruction (ACSR), Tacoma, WA, *March 2018*
- "Keys for a Successful IBIS/NIBIN Program-The Seattle Model" Miami, FL, *July 2018* Toronto, Canada, *September 2018*
- "3D Crime Scene Rendering: Utilizing Aerial Footage and Terrestrial Scanning for Crime Scenes" 2018 Use of Force Investigator's Conference, Society for the Integrity in Force Investigation Reporting, Mesa, AZ, *September 2018*
- "Clues from Impact: The Bullet Autopsy" Association of Firearm and Tool mark Examiners (AFTE) 50th Annual Training Seminar, Nashville, TN May 2019
- "A Holistic Approach to Police Weapons" (4 hours) National Tactical Officer's Association Conference, Orlando, FL, *August 2019*

Law Enforcement Courses Instructed

- ATF National Firearms Examiner Academy (yearly): A yearly one week course on the Preliminary Examination of Firearms for new students
 - 32 hour course, ATF National Laboratory, Laurel, Maryland 2006- Present
- Shooting Incident Reconstruction (less lethal, 8 hours)- Washington State Patrol, Crime Scene Response Team (CSRT), Shelton WA, November 2014
- Shooting Incident Reconstruction (24 hours)- Multi agency hands-on course at the Snoqualmie Police Department, Snoqualmie, WA, *April 2015*



College Courses Instructed

- Forensic Photography Criminal Justice/Law Enforcement Program, Everett Community College, Everett WA, 2002
- Interview and Interrogation, Law Enforcement Program, Skagit Valley College, Mt. Vernon, WA 2001-2002
- Forensic Applications for Officers- Law Enforcement Program, Skagit Valley College, Mt. Vernon, WA 2001-2002
- Digital Photography Symposium: hands-on photography course
 - Everett Community College Everett, WA 2002;
 - Snohomish Fire District Snohomish, WA 2003, 2004
- Forensics instructor at Seattle University (adjunct), Seattle, WA, 2007

Publications (not a full list)

"Variation in Bolt Face Markings on the Sig Sauer P226, .357 Sig caliber pistol" <u>AFTE Journal</u>, Volume 30, Number 4, *Fall 1998*

"Case Head Separation on .357 Sig Cartridge Case" <u>AFTE Journal</u>, Volume 31, Number 1, Winter 1999

"Lead is Lead" AFTE Journal, Volume 34, Number 3, Summer 2002

"9mm Smith and Wesson Ejectors" <u>AFTE Journal</u>, Volume 34, Number 4, *Fall 2002*

"Consecutively Made Cartridge Cases" <u>AFTE Journal</u>, Volume 34, Number 4, Fall 2002

"Asphalt Skip Shooting Reconstruction" <u>AFTE Journal</u>, Volume 35, Number 1, Winter 2003

"Knife Identification Project (KIP)" AFTE Journal, Volume 35, Number 4, Fall 2003

"The Advanced TASER M26, X26: Forensic Considerations" <u>AFTE Journal</u>, Volume 36, Number 4, *Fall 2004*

"Electronic Control Device Safe: Can You Trust the Label?" <u>PoliceOne.com</u>, April 2006

"TASER Safe or Flammable?" <u>Law Officer Magazine</u>, August 2007

"Less-Lethal Force Options: Reduce your Program's Liability" Officer.com, Oct. 2008



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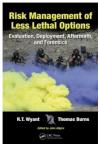
- "Analyzing Electronic Control Device (TASER) Wire to Determine Duration of Short Circuit" <u>AFTE</u> <u>Journal</u>, Volume 40, Number 4, *Fall 2008*
- "Comparison Qualities of the Wireless TASER (XREP) and the Mossberg X12 LLS" <u>AFTE Journal</u>, Volume 42, Number 3, *Summer 2010*
- "Examination of the Probe-Knot Junction to Estimate Duration of Electronic Control Device (TASER) Exposures" <u>AFTE Journal</u>, Volume 42, Number 3, *Summer 2010*
- "Crime Scene Considerations: Electronic Control Device (TASER) Deployment<u>Association of Crime</u> <u>Scene Reconstruction</u>, Volume 17, Issue 3, *Summer 2011*
- "Basic Function Tests of Electronic Control Devices (TASER) for Firearms Examiners" <u>AFTE Journal</u>, Volume 44, Number 1, *Winter 2012*
- "Less Lethal: 40mm Options Better Than 12 gauge" <u>Small Arms Review</u>, Volume 19, Number 3, *April 2015*
- "Diversionary Device Deployment- Evaluating Risk of Fire in a CS Environment" <u>The Tactical Edge</u>, *Fall 2015*
- "40mm Less-Lethal: Are you losing effectiveness with multi-shot launchers? <u>The Tactical Edge</u>, Spring 2016
- "Skynet is real: Anti-drone round" Small Arms Defense Journal, Volume 8, Number 5, Fall 2016
- "CEW-TASER FORENSICS: Simple considerations to improve investigations" <u>The Tactical Edge</u>, *Winter 2017*

"Less Lethal Weapon Integration" Law Enforcement Technology, August 2018

"What Are Your Bullets Telling You?" Law Enforcement Technology, January 2019

Books

Atlas of Conducted Energy Weapons and Forensic Analysis Editors Ho, Dawes, Kroll. Chapter 10 "Post Event Conducted Electrical Weapon Wire and Probe



Analysis" Springer Press 2012

Risk Management of Less Lethal Options: Evaluation, Deployment, Aftermath, and Forensics Text Principal Author. ISBN: 978-1-4665-6303-2, CRC Press May 2014



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Research Projects

Designed and implemented the Knife Identification Project (KIP) in 2002. This project involved obtaining consecutively made knifes for the purposes of studying microscopic individuality of tool marks. One hundred and thirty test kits were produced using these knife blades and distributed to laboratories worldwide. Results were compiled and error rates were published in the *Association of Firearm and Tool mark Examiner's* forensic journal. This study meets Daubert challenge criteria for the scientific admissibility of tool mark comparison analysis.

Proficiency Tests

Assisted in design and production of forensic proficiency tests for firearm and tool mark examiners with Collaborative Testing Services from *1998-2002*. These tests were distributed to laboratories internationally as part of the accreditation process.

Professional Affiliations

Association of Firearm and Tool mark Examiners, March 1998-Present

- Distinguished Member
- Committee for Research and Development
- Committee for the Advancement of the Science of Firearm & Tool mark Identification
- AFTE 2014 host committee chair, 45th annual training seminar
- AFTE 2017 host committee, 48th annual training seminar
- FBI- Scientific Working Group for Firearms/ Tool marks (SWGGUN), June 2004-2014 Bullet Path committee, Distance Determination (GSR) committee-Chair
- NIJ- Technology Working Group on Less Lethal Weapons, April 2005- Present

American Academy of Forensic Sciences, Associate Member, February 2006- Present

NIJ- International Law Enforcement Forum (ILEF)- May 2006, May 2011, April 2013

NTOA- National Tactical Officer's Association, April 2015-Present

Airborne Public Safety Association, March 2018- Present



R.T. Wyant, M.S.

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Awards

Director's Citation, Texas Department of Criminal Justice, *January 1997* Certificate of Appreciation, Sheriff's Association of Texas, *June 1998* Larry Warren Lindell Award, Snohomish County Sheriff, *June 2000* Reserve Deputy of the Quarter, Snohomish County Sheriff, *2001* Distinguished Member Award, Association of Firearm and Tool mark Examiners, *June 2002* Certificate of Appreciation, Snohomish County Sheriff, *November 2004* Reserve Deputy of the Quarter, Snohomish County Sheriff, *2004* Employee of the Year 2004, Washington State Patrol Forensic Services Bureau, *May 2005* Key Member(Steve Molnar)Award, Association of Firearm and Tool mark Examiners, *June 2009* Division Commendations (3), Washington State Patrol Forensic Services Bureau, *2013, 2014* Member of the Year (Walter Howe)Award, Association of Firearm and Tool mark Examiners, *May 2014* Certificate of Appreciation, Bureau of Alcohol Tobacco Firearms (BATF), *March 2016* Division Commendation, Washington State Patrol Forensic Services Bureau, *June 2018* Best Presentation Award, 50th Annual Training Conference, Association of Firearm and Tool mark Examiners, *May 2019*

Certificate of Appreciation, Bureau of Alcohol Tobacco Firearms (BATF), December 2019

Court related activities (not affiliated with Washington State Patrol) over the last four years

Rule 26:

Michael Slager vs. Southern States Police Benevolent Association, Inc., US District Court South Carolina, April 2016

City of Beaumont vs. Piexon AG, US District Court, San Diego, CA May 2016

Lane vs. City of Chicago, N. District of Illinois, Chicago, IL, January 2018

Deposition-

City of Beaumont vs. Piexon AG, US District Court, San Diego, CA July 2016

LaPorta vs. City of Chicago, US District Court, N. District of Illinois, Seattle, WA May 2017

Cordero vs. Guzman, US District Court, Sacramento, CA, Seattle WA, May 2017

Garrison vs. Sturm, Ruger & Company, US District Court, N. District of Alabama, Chicago, IL, December 2017

Duran vs. United Tactical Systems, Pepperball, Advanced Tactical Ordnance Systems, Perfect Circle Projectiles, Virtual (Zoom), Edmonds Wa, *September 2020*

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Testimony-

Cordero vs. Guzman, US District Court, Sacramento, CA, July 2017

LaPorta vs. City of Chicago, US District Court, N. District of Illinois, Chicago, IL, October 2017

State v. Hamilton, Denver Superior Court 17CR3522, Denver, CO, October 2018

State of New Mexico v. Lymon, Bernalillo Co. District Court, Albuquerque, NM, April 2019

State of New Mexico v. Ponce, Bernalillo Co. District Court, Albuquerque, NM, October 2019

State of New Mexico v. Barnes, Rio Arriba Magistrate Court, Espanola, NM, November 2019

State of New Mexico v. Ponce, Bernalillo Co. District Court, Albuquerque, NM, December 2019

District of Columbia v. Binion, District of Columbia Superior Court, Washington DC, January 2020

District of Columbia v. Cook, District of Columbia Superior Court, Washington DC, *February 2020*

State of Arizona v. Wilson, Cochise County Superior Court, Bisbee, AZ, September 2020