

# Lesley Hammer

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## Curriculum Vitae



HAMMER FORENSICS

### SUMMARY OF QUALIFICATIONS

Ms. Hammer is a Forensic Scientist with experience in forensic casework, laboratory supervision and scientific instruction. She has performed analyses, reported and testified in latent print, footwear and tire track, controlled substance and crime scene disciplines and holds professional certifications in Forensic Footwear Examination, Criminalistics and Crime Scene Analysis. Ms Hammer supervised a Forensic Physical Unit in an ASCLD accredited laboratory, has published articles, performed research and has provided forensic evidence related instruction to law enforcement, crime laboratory personnel and others throughout the United States and in Canada.

### FORMAL EDUCATION

**Master of Science, Forensic Science**, University of Strathclyde, Scotland 2007

**Master of Arts, Teaching**, University of Alaska Anchorage, 1990

**Bachelor of Arts, Earth and Environmental Science**, Alaska Pacific University 1987

### PROFESSIONAL EXPERIENCE

#### **Hammer Forensics LLC (January 2010 to present)**

Examines casework and provides testimony, consultation and training related to forensic Footwear and Tire Track Evidence and Crime Scene Physical Evidence Collection.

#### **State of Alaska DPS Crime Lab (1994 to 2009)**

Supervising Forensic Scientist from 2002 to 2009. Responsible for supervision, training and coordination of casework in the crime scene, latent print and shoe and tire track unit.

Conducted technical reviews, met accreditation standards, designed quality assurance, training and safety programs. Functioned as the laboratory training coordinator.

Forensic Scientist assigned to casework from 1994 to 2002. Analytical experience in footwear and tire track examination, latent print processing and comparison and crime scene evidence documentation, collection and preservation.

#### **Anchorage School District (1990 to 1994)**

Chemistry and General Science teacher.

### PROFESSIONAL CERTIFICATIONS

**Certified Footwear Examiner** by the International Association for Identification

**Certified Forensic Footwear Examiner** by the Canadian Identification Society

**Diplomate in General Criminalistics** by the American Board of Criminalistics

## PROFESSIONAL AFFILIATIONS

International Association for Identification  
Chair of the Board of Directors (2014-2015)  
President (2013-2014)  
Vice President (2009 to 2013)  
Board of Directors (2005 to 2009)  
Distinguished Member 2009  
Footwear and Tire Track Committee (2000-2005) Chair (2003-2005)  
Safety Committee (1999-2000)  
Scientific Working Group on Shoe and Tire Tread Evidence (SWGTHREAD)  
Chair, (2009 to 2012)  
Member (2004-2014)  
Organization of Scientific Area Committees (National Institute of Standards and Technology)  
Affiliate Member (2015 to present)  
The Canadian Identification Society, Member  
The Fingerprint Society, Fellow  
American Academy of Forensic Sciences, Associate Member Criminalistics Section  
NIJ Technical Working Group on General Forensics 2010  
NIJ Impression and Pattern Evidence Symposium Steering Committee 2012 and 2015  
Editorial Board, Journal of Forensic Identification (2010 – present)  
ASCLD-LAB Certified Technical Assessor  
Reviewer NIJ Publication, Crime Scene Investigation Guide for Law Enforcement 2013

## PUBLICATIONS

**A Study of the Variability in Footwear Impression Comparison Conclusions**, Lesley Hammer, Kate Duffy, James Fraser, Niamh Nic Daeid, *Journal of Forensic Identification*, Vol.63 (2), 2013.

**Preliminary Study of the Comparison of Inked Barefoot Impressions with Impressions from Shoe Insoles Using a Controlled Population**, Lesley Hammer, Niamh Nic Daeid, Robert B. Kennedy, A. Brian Yamashita, *Journal of Forensic Identification*, Vol.62 (6), 2012.

**Determining the Significance of Outsole Wear Characteristics During the Forensic Examination of Footwear Impression Evidence**, William Bodziak, Lesley Hammer, G.Matt Johnson, Rodney Schenck, *Journal of Forensic Identification*, Vol.62 (3), 2012.

**Footwear Marks**, Lesley Hammer revision of previous article by W.J. Bodziak, *Encyclopedia of Forensic Sciences 2<sup>nd</sup> Edition*, Elsevier Ltd. 2013.

**Can Forensic Science be Objective?** Panelists, Alain Cassista, Dr. Itiel Dror, Lesley Hammer, *RCMP Gazette*, Vol. 73, No.1, 2011.

**Footwear Overview**, Lesley Hammer, *Wiley Encyclopedia of Forensic Sciences*, April 2009.

**Footwear: Linking Foot to Shoe**, Lesley Hammer and Robert Kennedy *Wiley Encyclopedia of Forensic Sciences*, April 2009.

**An Evaluation of Dental Stone, Traxtone, and Crime-Cast.** William Bodziak and Lesley Hammer. *Journal of Forensic Identification*, 2006;56(5): 769-772.

**International Association for Identification Recommended Course of Study for Footwear and Tire Track Examiners.** Updated 2006 Lesley Hammer.

**Integrating DNA Collection into the Latent Print Section.** Lesley Hammer (and others). *Journal of Forensic Identification*, March/April 2004; 54(2): 170-177.

**Shoe and Tire Impression in Snow: Photography and Casting.** Lesley Hammer and James Wolfe. *Journal of Forensic Identification*, November/December 2003;53 (6): 647-655.

## **INSTRUCTION PROVIDED**

**Mentorship and Training Program for Footwear Examination Project**

Montana State Crime Lab 2014-2016

**Advanced Footwear Impression Examination.** Florida Department of Law Enforcement, Tampa Florida May 11-15, 2015

**Footwear Examination Independent Training.** Montana State Crime Laboratory, Missoula, Montana December 2014 to present

**Blood Enhancement, Barefoot Examination Workshop, Collection of Footwear and Tire Impressions.** IAI New England Division Conference, Portland, ME, November 2014

**Advanced Footwear Impression Examination.** Fort Collins Police Department Hosts, Fort Collins, Colorado, November 3-7, 2014

**Advanced Footwear Analysis Course.** Ontario Police College. Alymer, Ontario, Canada, September 2014

**Cross Train in Footwear Evidence Workshop,** Pacific Northwest Division of the International Association for Identification Conference, Coeur d'alene, Idaho, June 2014

**Examination and Comparison of Footwear Impression Evidence.** Coral Springs, Florida, May 2014

**Crime Scene Physical Evidence Collection.** Villiage Public Safety Officers, Anchorage, Alaska, April 2014

**Examination and Comparison of Footwear Impression Evidence.** Arvada, Colorado, March 2014

**Footwear and Tire Track Evidence: Effective Crime Scene Recovery.** Clackamus, Oregon, December 2013

**Bloodstain Evidence.** Anchorage Police Department, November and December 2013

**Cross Train in Footwear Evidence Workshop,** Florida Division of the International Association for Identification Conference, Miami, Florida, October 2013

**Advanced Footwear Analysis Course.** Ontario Police College. Alymer, Ontario, Canada, October 2013

**Chemical Development of Latent Prints: Advanced Topics.** Anchorage Police Department, May and September 2013

**Introduction to Footwear Evidence, Introduction to Footwear Evidence Photography and Footwear and Tire Track Evidence Collection and Preservation Workshops.** Texas Division of the International Association for Identification Conference, Dallas, Texas, June 2013

**Barefoot Evidence Workshop.** North Carolina Division of the International Association for Identification Conference, April 2013

**Footwear and Tire Track Evidence: Effective Crime Scene Recovery.** Tacoma, Washington, March 2013

**Footwear and Tire Track Evidence: Effective Crime Scene Recovery.** St. Louis, Missouri, December 2012

**Cross Train in Footwear Evidence Workshop,** Florida Division of the International Association for Identification Conference, St. Petersburg, Florida, October 2012

**Tire Track Evidence Workshop.** West Virginia University Forensic Science Initiative Workshop, Nashville, Tennessee, October 2012

**Advanced Footwear Analysis Course.** Ontario Police College. Alymer, Ontario, Canada, October 2012

**Documentation and Casting Workshop, Footwear Comparison Workshop and Daubert Workshop for Footwear and Tire Evidence.** Midwestern Association of Forensic Scientists 41<sup>st</sup> Annual Meeting, Milwaukee, Wisconsin, September 2012

**The Examination and Evaluation of Tire Tread Design and Dimension,** Co Instructor William Bodziak, Impression and Pattern Evidence Symposium, Clearwater, Florida August 2012

**Barefoot Morphology Workshop.** Co Instructors Shelly Massey and Brian Yamashita, Impression and Pattern Evidence Symposium, Clearwater, Florida, August 2012

**Presentation of Research on Barefoot Impression Comparison on Insoles of Shoes; and Presentation of Fairbanks Arson Case,** International Association of Identification Educational Conference Phoenix, Arizona July 2012

**Crime Scene Collection of Footwear and Tire Track Evidence.** CSI Alaska Teacher and Law Enforcement Symposium, Wasilla, Alaska, June 2012

**Footwear and Tire Track Evidence: Effective Crime Scene Recovery.** Bergen County Sheriff's Office, Hackensack, New Jersey, May 2012

**Fingerprint Evidence.** Village Public Safety Officers, Dutch Harbor, Alaska, May 2012

**Finding Latent Evidence with Chemistry and Light.** Guest Instructor: Brian Dalrymple's Course, National Forensic Science Technology Center, Largo, Florida, April 2012

**Advanced Footwear Analysis Course.** Ontario Police College, Alymer, Ontario, Canada, October 2011

**Advanced Footwear Comparison Workshop.** Florida Division of the International Association for Identification Conference, Panama City, Florida, October 2011

**Blood Enhancement Workshop.** Florida Division of the International Association for Identification Conference, Panama City, Florida, October 2011

**Casting and Photography of Footwear Evidence.** Pacific Northwest Division, International Association for Identification Education and Training Conference. Vancouver, Washington, September 2011

**Documenting and Casting Footwear Impressions at the Crime Scene.** Village Public Safety Officers, Dutch Harbor, Alaska, May 2011

**Documentation and Collection of Footwear and Tire Track Evidence.** Alaska State Troopers, Wasilla, Alaska, March 2011 and Fairbanks, Alaska, April 2011

**Track Evidence and Latent Print Evidence, Physical Evidence Collection Uniformed Investigator Advanced Course.** Anchorage Police Department, Anchorage, Alaska, March 2011

**Collection, Documentation and Preservation of Footwear and Tire Track Evidence.** Massachusetts State Police, Sudbury, Massachusetts, March 2011

**CSI Footwear Workshop.** Indiana Division International Association for Identification, Danville, Indiana, October 2010

**Advanced Footwear Comparison Workshop.** New England IAI Regional Educational Seminar, Maine, November 2009

**Physical Evidence Collection Courses.** Over 20 courses taught to law enforcement agencies throughout the State of Alaska from 1995 to 2009

## PRESENTATIONS

**Examination and Comparison of Footwear Impressions on Skin.** NIJ Impression Pattern and Evidence Symposium, San Antonio, Texas August 2015.

**Report Writing for Footwear and Tire Track Examiners: Being Clear and Communicating Value.** IAI Annual Educational Conference, Sacramento, California August 2015 and NIJ Impression Pattern and Evidence Symposium, San Antonio, Texas August 2015.

**Legislation and Standards Update, Opening and Closing Ceremony Address, Participant on Footwear Evidence Topics Panel.** IAI Annual Educational Conference, Minneapolis, Minnesota, August 2014

**Update on the International Association for Identification.** Federal Bureau of Investigation's Advisory Policy Board for Criminal Justice Information Services, St. Louis, Missouri, June 2014

**Comparison Evidence Update.** National District Attorney Association, Denver, Colorado, July 2014

**Forensic Panel Participant, Fifth Annual Prescription for Criminal Justice.** New York, New York, June 2014

**Forensic Standards and Legislation in the US: IAI update.** California Division of the IAI, Riverside, California, May 2014

**Understanding Forensic Footwear and Tire Track Evidence.** Colorado Annual Public Defenders Conference, Westminster, Colorado, September 2013, Alaska Defense Association Meeting, Anchorage November 2013 and Office of Public Advocacy, Anchorage, December 2013

**Introduction to Footwear Evidence.** International Association for Identification Educational Conference, Providence, Rhode Island, August 2013

**SWGTHREAD update, Forensic Barefoot Morphology Comparison Research.** Florida Division of the International Association for Identification, St. Petersburg, Florida, October 2012

**Scientific Working Group Panel.** Impression and Pattern Evidence Symposium, Clearwater, Florida August 2012

**SWGTHREAD Update.** Florida Division of the International Association for Identification Conference, Panama City, Florida, October 2011

**Footwear Note Taking.** Pacific Northwest Division International Association for Identification Education and Training Conference. Vancouver, Washington, September 2011

**Discussion Panel-Strengthening Forensic Science in the United States: A Path Forward.** National Forensic Academy Best Practices Symposium, University of Tennessee (hosts) Nashville, Tennessee, December 2010

**Determining the Significance of Outsole Wear Characteristics During the Forensic Examination of Footwear Impression Evidence.** Indiana Division IAI Meeting, Fort Wayne, Indiana, October 2010

**Difficult Footwear Comparison Workshop.** Indiana Division IAI Meeting, Fort Wayne, Indiana, October 2010

**Footwear Overview.** Workshop on Cognitive Bias and Forensic Science, Northwestern University Law School, Chicago, Illinois, September 2010

**Standardized Test Methods and Insuring Quality in the Laboratory Relating to the Comparative Forensic Sciences, SWGTREAD portion.** NIJ Pattern Evidence Symposium, Clearwater Beach, Florida, August 2010

**Effective note taking in shoe/tire impression comparison cases.** International Association for Identification Educational Seminar, Spokane, Washington, July 2010

**SWGTREAD Update.** International Association for Identification Educational Seminar, Spokane, Washington, July 2010

**Impressions in Snow, Photography and Casting.** New England IAI Regional Educational Seminar, Maine, November 2009

**Determining the significance of outsole wear characteristics during the forensic examination of footwear impression evidence.** International Association for Identification Educational Seminar, Tampa, Florida August 2009  
Poster presented at NIJ Pattern Evidence Symposium, Clearwater Beach, Florida, August 2010

**A study of the comparison of inked barefoot impressions to barefoot impressions inside the shoe.** MSc Research Project, University of Strathclyde 2007. Presented at the Canadian Identification Society Conference, Vancouver, Canada, September 2009

**Enhancement of Footwear Impression Evidence,** International Associations for Identification Educational Seminar, SanDiego, CA, July 2007

**An Evaluation of Dental Stone with Castone and Crime Cast.** Lesley Hammer and William Bodziak. International Association for Identification, 90<sup>th</sup> Educational Conference Dallas, Texas, August 2005

**Body Examination Workshop.** Brian Dalrymple Course. Phoenix Arizona, February 2005

**Crime Scene Processing.** Lesley Hammer, William Gifford and Harold Strahle. Anchorage, Alaska, January 2005

**Snow Casting**, International Association for Identification, 89<sup>th</sup> Educational Conference St. Louis, Missouri, August 2004

**Snow Impression: Photography, Casting and Examination.** IAI Educational Seminar Lecture July 2002, July 2003 and July 2006 and at the Canadian Identification Society Educational Conference, St. Johns, New Foundland, Canada, June 2004

**Casting Impressions in Snow**, IAI Educational Seminar Poster Presentation, July 2001 (Honor: Best in Show). Published in the November 2001 European Information Bulletin of Shoeprint/Toolmark Examiners (vol.7, No.3)

**Physical Evidence Collection**, Alaska Association of Fire and Arson Investigators Conference, Fairbanks, Alaska, August 1997

**Chemistry in Latent Print Development**, Administrative Advanced Latent Fingerprint School, FBI Training Academy, Quantico, Virginia, March 1997

**Rotograph**, International Association for Identification Educational Seminar, Danvers, Massachusetts, July-August 1997

## TRAINING COMPLETED

2015 August	National Institute of Justice Impression Pattern and Trace Evidence Symposium. San Antonio, Texas	4 days
2015 August	IAI Educational Conference lectures Sacramento, California	8 hours
2014 August	IAI Educational Conference lectures Minneapolis, Minnesota	15 hours
2014 February	American Academy of Forensic Science Conference Seattle, Washington	4 days
2013 November	Forensic Science Society Conference Manchester, England	3 days
2013 September	Minnesota Division IAI Conference lectures Mankato, Minnesota	10 hours
2013 August	IAI Educational Conference lectures Providence Rhode Island	15 hours
2012 October	Photoshop Workshop, lectures FDIAI Conference, St. Petersburg, Florida	13 hours
2012 August	NIJ Pattern Evidence Symposium Clearwater, Florida	20 hours
2012 July	IAI Annual Training Seminar, Phoenix, Arizona	20 hours



2011	September	Pacific Northwest Division IAI Education and Training Conference, Vancouver, Washington	10 hours
2011	August	IAI Annual Training Seminar, Milwaukee, Wisconsin	20 hours
2010	November	ASCLD/LAB International Assessor Training Austin, Texas	40 hours
2010	October	IAI Indiana Division Educational Conference Fort Wayne, Indiana	16 hours
2010	August	NIJ Pattern Evidence Symposium Clearwater, Florida	30 hours
2010	July	IAI Annual Training Seminar, Spokane, WA	40 hours
2009	November	IAI New England Division Educational Conference Freeport, Maine	20 hours
2009	September	Canadian Identification Society Educational Conference Vancouver, BC, Canada	30 hours
2009	August	IAI Annual Training Seminar, Tampa, FL	40 hours
2008	10/20-22	Shooting Reconstruction William Gifford, Anchorage Police Department, Retired	24 hours
2008	August	IAI Annual Training Seminar, Louisville, KY	40 hours
2008	01/14-18	Advanced Bloodstain Pattern Analysis Tom Bevel, Anchorage, Alaska	40 hours
2008	07/29-30	Courtroom Testimony Techniques Ron Smith, Anchorage, Alaska	16 hours
2007	July	IAI Annual Training Seminar, San Diego, CA	40 hours
2006	July	IAI Annual Training Seminar, Boston, MA	40 hours
2005	August	IAI Annual Training Seminar, Dallas, TX	40 hours
2005	01/13	DNA Evidence State of Alaska Crime Lab	4 hours
2004	10/10-16	Forensic Barefoot Impression Evidence RCMP, Robert Kennedy, Belleville, Canada	40 hours

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2004	10/04-08	Laboratory Safety Officer California Criminalistics Institute	40 hours
2004	August	IAI Annual Training Seminar, St. Louis, MO	40 hours
2003	July	IAI Annual Training Seminar, Ottawa, Canada	36 hours
2003	July	Forensic Tire Impression Identification Lawren Nause, IAI Seminar Ottawa, Ontario, Canada	4 hours
2003	06/23-27	Advanced Problem Comparisons Kasey Wertheim, Anchorage, Alaska	40 hours
2003	04/28	Winning Courtroom Confrontations Valerie VanBrocklin, Anchorage, Alaska	8 hours
2003	01/09-10	Latent Print Imaging and Forensic Digital Imaging Imaging Forensics, George Reis, Anchorage, Alaska	40 hours
2002	10/21-25	Footwear Impression Evidence William Bodziak, California Criminalistics Institute	40 hours
2002	August	IAI Annual Training Seminar, Las Vegas, NV	40 hours
2002	01/07-11	Utah Crime Scene Academy Salt Lake City, Utah	40 hours
2001	10/15-26	Combined Advanced Ridgeology, Demystifying Palmprints and Comparison Techniques, Arlington Texas	80 hours
2001	July	IAI Annual Training Seminar, Miami, FL	40 hours
2001	04/01-06	Tire Track and Tire Impression Evidence Examination William Bodziak, California Criminalistics Institute	40 hours
2001	01/06-08	Forensic Digital Imaging Alaska State Crime Lab, Anchorage, Alaska	24 hours
2000	July	IAI Annual Training Seminar, Charleston, WV	40 hours
1999	05/21-25	The Robert Borckenstein Course on Alcohol and Drugs Indiana University Center for Law in Action, Bloomington, IN	40 hours
1999	05/07	The National Judicial College Faculty Development Workshop, Reno, Nevada	40 hours
1999	04/18-22	International Association of Chemical Testers Meeting	40 hours

Wilmington, North Carolina

1999 04/17	Datamaster users meeting National Patent, Wilmington, North Carolina	8 hours
1998 March	Footwear Examination FBI Training Academy, Quantico, Virginia	40 hours
1997 July	IAI Annual Training Seminar, Danvers, MA	32 hours
1997 07/28-30	Tire Track Examination Ernie Hamm, IAI Seminar	8 hours
1997 03/10-28	Administrative Advanced Latent Fingerprint School FBI Training Academy, Quantico, Virginia	120 hours
1997 01/06-10	Laser Fingerprint Development Workshop Texas Tech University Center for Forensic Studies	40 hours
1996 09/16-20	DEA Forensic Chemist Seminar McLean, Virginia	40 hours
1996 July	IAI Annual Training Conference, Greensboro, NC	40 hours
1995 05/08-09	Trace Workshop Skip Palenik of Microtrace	12 hours
1995 04/24-28	Modern Fingerprint Technology Metro-Dade Police Department, Florida	40 hours
1995 02/21-24	Advanced Palm Print Identification Ron Smith, Pacific Northwest IAI Training, Tacoma, WA	24 hours
1995 02/13	Crime Scene Investigation Anchorage PD Training Academy	8 hours