

**DAHLSTROM, DEAN B.**  
Forensic Firearms and Toolmark Specialist  
Dahlstrom Forensics  
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**EDUCATION:**

- Bachelor of Science, (Biology), University of Regina, 1980

**EMPLOYMENT HISTORY:**

- RCMP Forensic Laboratory, Firearm and Toolmark Examiner
  - January 1982 - May 2004
- RCMP Forensic Laboratory, Program Technical Leader, Firearms & Toolmark Examiner
  - May 2004 - February 2014
- Dahlstrom Forensics
  - February 2014 - Present.
- RCMP Canadian Firearms Program, Chief Provincial Firearms Officer - Saskatchewan
  - November 2014 – September 2021
- Adjunct Professor, Faculty of Science, Engineering and Architecture, Department of Forensic Science, Laurentian University
  - 2015/16 calendar year- Present.

**TRAINING:**

- Understudy - Firearms and Toolmark Identification Section, RCMP Forensic Laboratory Regina, Saskatchewan, January 1982 to October 1983.
- Firearm, ammunition, and tool manufacturing plant tour in 1983, including the following manufacturing facilities: I.V.I., Ruger, Smith & Wesson, Savage, Colt, Marlin, Wilson Arms, Remington Arms, U.S.R.A. Co, Remington Ammunition, and Cornwall and Patterson.
- AFTE training conferences in San Diego, California, 1995, Milwaukee, Wisconsin, 1996.
- Firearm/ammunition factory tour: Federal Ammunition, Anoka, Minnesota, 1995.
- Armourers courses: Smith & Wesson, Ruger, and Glock.
- International Wound Ballistics Conference in Los Angeles, California, October 1997.
- Firearm/ammunition factory tour: A.M.T., P.M.C., and Mast Technology, Inc., 1997.
- Bloodstain Pattern Recognition Course sponsored by the Northwest Bloodstain Pattern Association at the Justice Staff College in Edmonton, Alberta, February 1998.
- Seminar On Killing, a psychological insight into learning to kill in war and society, by Lt. Col. Dave Grossman, at the RCMP Training Academy, March 2000.
- Conducted research and observed autopsy and crime scene procedures at the Medical Examiners Department in Miami-Dade County, Florida, May 2000.
- Firearm factory tour: Master Piece Arms, Glock, and Advanced Armament Corporation, Georgia, Fall 2007.

- Firearm/ammunition factory tour: Cooper Firearms, Stevensville, Montana, Fall 2008.
- Firearm/ammunition factory tour: Olympic Arms Inc. and Rainer Ballistics, Washington, spring 2009.
- Firearm/ammunition factory tour: Red Jacket Firearms Co., Baton Rouge, LA., spring 2010.
- Firearm/ammunition factory tour: STI International, Austin, Texas, spring 2011.
- IRSAG/NRSWG 2017 (International Range Safety Advisory Group and NATO Range Safety Working Group), a two week meeting in Ottawa, Ontario, May, 2017.
- Range Safety Technical Working Group (TTCP Five Eyes), a one week meeting in Quebec City, Quebec, September, 2018.
- Firearm/ammunition factory tour: Savage Arms, Lakefield Ontario, Summer 2023.

#### **FIELD OF EXPERTISE:**

- Mechanical Assessment Of Firearms
- Firearms Classification
- Firearms Identification (Identification Of Fired Ammunition Components).
- Ballistics (Internal, External, And Terminal).
- Bullet Impact Damage Assessment And Bullet Path Analysis (Shooting Incident Reconstruction)
- Tool Mark Identification
- Physical Matching And Comparison
- Range Determination And Wound Examination
- Serial Number Restoration
- Firearms Legislative Interpretation.
- Firearms Licensing
- Shooting Range Standards

#### **PUBLICATIONS:**

- Dahlstrom, D.B., "A Slim Chance", R.C.M.Police Gazette, Vol.50, No.12, 1988, 19-20.
- Dahlstrom, D.B. and Powley, K.D., "Comparative Performance of 9mm Parabellum, .38 Special and .40 Smith & Wesson Ammunition In Ballistic Gelatin", Canadian Police Research Centre TR- 01-95.
- Dahlstrom, D.B. and Powley, K.D., "Comparative Performance of 9mm Parabellum, .38 Special and .40 Smith & Wesson Ammunition In Ballistic Gelatin", (above paper condensed by removing data), IWBA Wound Ballistics Review, Vol.2, No.3, 1996, 8-28.
- Dahlstrom, D.B. and Powley, K.D., "Royal Canadian Mounted Police Ammo Tests", In Marshal, E.P. and Sanow, E.J., (Eds.), Street Stoppers, Boulder: Paladin Press, 1996, 81-92.
- Fackler, M.L., Welch, N.E., Dahlstrom, D.B., and Powley, K.D., "Shotcup Petal Distortion Separates Contact From Two Foot Distant Shotgun Wounds", IWBA Wound Ballistics Review, Vol.2, No.3, 1996, 37-41.
- Powley, K.D., Dahlstrom, D.B., Atkins, V.J., and Fackler, M.L., "Velocity Necessary for a BB to Penetrate the Eye: An Experimental Study using Pig Eyes", IWBA Wound Ballistics Review, Vol. 3, No. 1, 10-12.
- Dahlstrom, D.B., Powley, K.D. and MacPherson, D., "Lead Shot Penetration in 10%

- Ordnance Gelatin”, IWBA Wound Ballistics Review, Vol. 3, No. 2, 34-38.
- Dahlstrom, D.B., Book Review: “Heard, Handbook of Firearms and Ballistics,” John Wiley & Sons Limited, Canadian Society of Forensic Science Journal, Vol. 31, No. 2.
  - Dahlstrom, D.B., Powley, K.D. and MacPherson, D., “Lead Shot Penetration in 10% Ordnance Gelatin”, Canadian Police Research Centre, TR-03-98.
  - Powley, K.D. and Dahlstrom, D.B., “Alternative Use of Training Ammunition?”, AFTE Journal, Vol. 30, No. 2, Spring 1998, 321-325.
  - Dahlstrom, D.B., Powley, K.D. and Penk, D., “12 Gauge Bean Bag Ammunition Penetration”, IWBA Wound Ballistics Review, Vol. 3, No. 3, 38-41.
  - Dahlstrom, D.B., Powley, K.D., and Penk, D., “12 Gauge Bean Bag Ammunition Penetration”, Canadian Police Research Centre, TM-05-1999.
  - Powley, K.D. and Dahlstrom, D.B., “Wound Profile of the Briese Controlled Disintegrater Tactical Ammunition in Calibre .308 Winchester,” IWBA Wound Ballistics Review, Vol. 4, No. 1, 25-29.
  - Dahlstrom, D.B., Powley, K.D., and Pope, G., “Wound Profile of the 5.7 x 28 mm FN Cartridge SS 190, Fired from the FN P90 Submachine Gun,” IWBA Wound Ballistics Review, Vol. 4, No. 3, 21-25.
  - Powley, K.D. and Dahlstrom, D.B., Book Review, “DiMaio, Gunshot Wounds - Practical Aspects of Firearms, Ballistics, and Forensic Techniques,” C.R.C. Press, Canadian Society of Forensic Science Journal, Vol. 33, No. 2, 89-90.
  - Dahlstrom, D.B., Powley, K.D., Fackler, Martin L., M.D., “Drag-Stabilized (Bulb with Tail) 12 Gauge Shotgun Bean Bag Projectile,” IWBA Wound Ballistics Review, Vol. 5, No. 1, 8-12.
  - Powley, K.D., Dahlstrom, D.B., Fackler, Martin L., M.D., “Accuracy Comparison of Drag-Stabilized and Square 12 Gauge Shotgun Bean Bag Projectiles Shot from Smoothbore and Rifled Barrels,” IWBA Wound Ballistics Review, Vol. 5, No. 1, 13-16.
  - MacLean, B., Powley, K.D., Dahlstrom, D.B., “A Case Study Illustrating another Logical Explanation for High Velocity Impact Spatter,” Canadian Society of Forensic Science Journal, Vol. 34, No. 4, December 2001, 191-195.
  - Powley K.D., Dahlstrom D.B., Atkins V.J., Fackler M.L. “Velocity necessary for a BB to penetrate the eye: an experimental study using pigs eyes.” Am J Forens Med & Path 25(4):273-275,2004.
  - Marc R. L. Cattet, Albert Borque, Brett T. Elkin, Kramer D. Powley, Dean B. Dahlstrom, Nigel A. Caulkett “Evaluation of the Potential for Injury with Remote Drug-delivery Systems” Wildlife Society Bulletin 34(3) 741-749, 2006.
  - Marshall, John W.; Dahlstrom, Dean B.; Powley, Kramer D. “Minimum Velocity Necessary for Nonconventional Projectiles to Penetrate the Eye: An Experimental Study Using Pig Eyes” American Journal of Forensic Medicine & Pathology. 32(2):100-103, June 2011.
  - Dahlstrom, Dean, Laturas, Patrick, Wilkinson, Della, Yamashita, Brian. “Forensic Physical Sciences” Chapter 6 of “Forensic Science in Canada a report of Multidisciplinary Discussion”. Centre for Forensic Science and Medicine, University of Toronto 65 - 76, May 2012.
  - Royal Canadian Mounted Police “Canadian Range Design and Construction Guideline” November 29, 2021

### **FORENSIC COURSES AND WORKSHOPS DELIVERED:**

- Hosted and presented a firearm and ammunition evaluation workshop in conjunction with the Canadian Society of Forensic Science Conference in Regina, Saskatchewan. September 19, 1997.
- Forensic Wound Ballistics. Instruction of course at Carleton University Summer Institute of Forensic Science in Ottawa, Ontario, Canada. July 20-21, 1998.
- Class Characteristics of Toolmarks on Bone. Presentation at the Canadian Cooperative Wildlife Health Centre (CCWHC) Forensics short course, University of Saskatchewan, February, 2005.
- Wound Ballistics. Forensic course held in conjunction with Dr. Besant-Matthews at the Centre of Forensic Sciences, Toronto Ontario, December 2005.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Workshop held in conjunction with The Canadian Society of Forensic Science, The Canadian Identification Society, and the University of Windsor, August 2006.
- Bullet Impact Damage Assessment Course, presented over a two week session to Identification Officers from Alberta, June 2009.
- Bullet Impact Damage Assessment Course. A one week session presented to Identification Officers from Winnipeg Police Service, September, 2009.
- Toolmark training for the Ontario Centre of Forensic Science Firearms Examiners, 2014.
- Bullet Impact Damage Assessment Course. A one week session presented to Identification Officers from Edmonton Police Service, October 2014, October 2015.
- Bullet Impact Damage Assessment Course. A one week session presented to Alberta and Saskatchewan Identification Officers at Edmonton, Alberta, June, 2017.
- Bullet Impact Damage Assessment Course. A one week session presented to Manitoba Identification Officers at Winnipeg, Manitoba, October, 2017.
- Shooting Range Inspectors Course. A one week course presented to Firearms Officers of the Canadian Firearms Program in Vancouver, British Columbia, December, 2017.
- Bullet Impact Damage Assessment Course. A one week session presented to Maritime Identification Officers at St. John's, Newfoundland, June, 2018.
- Shooting Range Inspectors Course. A one week course presented to Firearms Officers of the Canadian Firearms Program in St. Johns, Newfoundland, June 2018.
- Gunshot Damage, Close vs. Long Range. Workshop at the 2018 CIS (Canadian Identification Society) Conference, Winnipeg MB. September 2018.
- Shooting Range Inspectors Course. A one week course presented to Firearms Officers of the Canadian Firearms Program in Calgary, Alberta, September 2018.
- Bullet Impact Damage Assessment Course. A one week session presented to Manitoba, British Columbia, Saskatchewan, and Alberta, Identification Officers at Winnipeg, Manitoba, March, 2019.
- Bullet Impact Damage Assessment Course. A one week session presented to Royal Newfoundland Constabulary (RNC) Identification Officers at St. John's, Newfoundland April, 2022.
- Firearm and Toolmark Identification Understudy Training. Delivery of a 2 year Understudy Training Course to candidates of the Royal Canadian Mounted Police National Forensic Laboratory Services, Vancouver British Columbia, April, 2022.

- Shooting Scene Reconstruction Level 1, Bullet Impact Damage Assessment Course. A one week session presented to E Division RCMP Identification Officers at Pitt Meadows British Columbia, June, 2023.
- Shooting Scene Reconstruction Level, 1 Bullet Impact Damage Assessment Course. Two one week sessions presented to Canadian Identification Officers at Regina Saskatchewan, July-August, 2023.
- IBIS Triage Training. One week session to new trainees of the Saskatchewan Ballistics Laboratory, April, 2024.
- Shooting Scene Reconstruction Level, 1 Bullet Impact Damage Assessment Course. Two one week sessions presented to Canadian Identification Officers at Regina Saskatchewan, July, 2024.
- Shooting Scene Reconstruction Level 1, Bullet Impact Damage Assessment Course. A one week session presented to E Division RCMP Identification Officers at Pitt Meadows British Columbia, September, 2024.
- Firearm and Toolmark Identification Understudy Training. Delivery of a 2 year Understudy Training Course to candidates of the Royal Canadian Mounted Police National Forensic Laboratory Services, Vancouver, British Columbia and Ottawa, Ontario August, 2024.
- Shooting Scene Reconstruction Level, 1 Bullet Impact Damage Assessment Course. Two one week sessions presented to Canadian Identification Officers at Regina Saskatchewan, July and August, 2025.

#### **PRESENTATIONS AND SEMINARS DELIVERED:**

- Comparative Performance of 9mm Parabellum, .38 Special and .40 Smith & Wesson Ammunition In Ballistic Gelatin. Paper Presented at the Association of Firearm and Tool Mark Examiners 26th Annual Training Seminar in San Diego, California, 1995.
- Participant (Presented A Test Methodology for Law Enforcement Ammunition Testing) at the RCMP Firearms Program Oriented Work Planning Meeting (POWPM) to change the course of fire for the agency. June 11-13, 1996.
- The expert witness in a civil trial. Demonstration and panel discussion at the Canadian Bar Association Mid-Winter Meeting in Saskatoon, Saskatchewan. January, 1997.
- 12 Gauge Bean Bag Ammunition: A Study of Penetration. Paper presented at the International Wound Ballistic Associations Conference in Los Angeles, California. October 3 - 5, 1997.
- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Northwest Bloodstain Pattern Recognition Course in Edmonton, Alberta:
  - 1998: May
  - 1999: February, May, October
  - 2000: February, May, October
  - 2001: May, October
  - 2002: May, October
  - 2003: May, October
  - 2004: April, October
  - 2005: May, October

- 2006: April
- 2007: May, October
- Identification of Trauma to the Human Body Associated with Firearms, Blunt and Penetrating Wounds. Presentation at the Saskatchewan Association of Combined Laboratory and X-Ray Technicians Annual Conference in Regina, Saskatchewan. October, 1999.
- Wound Ballistics. Presentation at the Edmonton Police Service Forensic Identification Services Section: 99 Fall Training Seminar in Edmonton, Alberta. November, 1999.
- Guest lecturer at the Canadian Police College on the Bloodstain Pattern Recognition course Ottawa, Ontario, March 2004, November 2004.
- Wound Ballistics /Effectiveness of Police Ammunitions. Presentation to RCMP Sniper/ Observer Course, November, 2004.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation to the 2007 Toronto Police Service Educational Conference, February 2007.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation to Calgary Police Service, December, 2007.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation at the RCMP Advanced Forensic Identification course in Chilliwack, B.C., May and June, 2010.
- An Introduction to Wound Ballistics and Impact Damage Assessment Presentation at the RCMP Advanced Forensic Identification course in St. Johns, NFLD. Sept.- Oct., 2010.
- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Bloodstain Pattern Recognition Course in Chilliwack B.C., October 2010.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation to Regina Police Service Identification Officers November 2010.
- "Firearms and Wound Ballistics 101" presentation via webinar to the North American Trial Lawyers Association, November 2010.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation at the RCMP Advanced Forensic Identification course in Chilliwack, B.C., May 2011
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation at the Canadian Police College Senior Forensic Identification course in Ottawa, On., June, 2011.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation at the RCMP Advanced Forensic Identification course in Chilliwack, B.C., October 2011
- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Pacific Regional Training Center in Chilliwack, British Columbia, December 2011.
- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Bloodstain Pattern Recognition Course in Edmonton Alberta, April,2012.
- Forensic Science In Canada: A Preliminary Multidisciplinary Discussion. Workshop at the University of Toronto, Ontario, May 2012.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation at the Canadian Police College Senior Forensic Identification course in Ottawa, Ontario, June, 2012.
- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Pacific Regional Training Center in Chilliwack, British Columbia, November 2012.

- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Bloodstain Pattern Recognition Course in Edmonton Alberta, February, 2013.
- Wound Ballistics /Effectiveness of Police Ammunitions. Presentation to Edmonton Police Service Tactical Team in Edmonton, Alberta, February 2013.
- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Bloodstain Pattern Recognition Course in Edmonton Alberta, October, 2015.
- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Bloodstain Pattern Recognition Course in Edmonton Alberta, March, 2018.
- Forensic Consultant Panel Discussion at the Saskatchewan Trial Lawyers Association Fall Convention, October 2018.
- Wound Ballistics and Bloodstain Pattern Recognition. Presentation at the Bloodstain Pattern Recognition Course in Edmonton Alberta, September, 2021.
- Elementary Ballistics and Firearms Injuries. Virtual Seminar for the Academy of Forensic Medical Sciences, London England, January 2022, January 2023, November 2023, November 2024, November 2025.
- An Introduction to Wound Ballistics and Impact Damage Assessment. Presentation at the Canadian Police College Senior Forensic Identification course in Ottawa, Ontario, June, 2023.

**LECTURES DELIVERED:**

- Saskatchewan Pathologists Annual Meeting
- Regina District Medical Society
- Health Law, Civil Litigation, and Criminal Litigation Sections of the Canadian Bar Association
- Saskatchewan Conservation Officers (Wildlife Enforcement Branch)
- R.C.M. Police Forensic Identification Specialists
- R.C.M. Police Basic Firearms Instructors
- R.C.M. Police Cadets
- R.C.M. Police Junior and Senior Investigator Courses
- Saskatchewan Police College Cadets
- Saskatchewan Justice Employees
- Federal Fisheries Officers
- Saskatchewan Municipal Police Forensic Identification Specialists
- Deputy Justice Ministers
- Canadian Association of Police Boards
- Parks Canada Wardens
- Trauma Surgeons
- Canadian Chief Firearms Officers
- Saskatchewan Trial Lawyers

**AWARDS:**

- Directorate Merit Award for contribution to Forensic Laboratory Services for research in the field of Wound Ballistics and the R.C.M.P. Side Arm Replacement Program.
- Commanding Officers Certificate of Appreciation for forensic investigation of a shooting incident in Spiritwood, Sask.

**COURT TESTIMONY:**

- Testified at Court of Queen's Bench and Provincial Court in Saskatchewan and Alberta, Court of Queen's Bench in Manitoba and in Provincial Court in British Columbia.
- Testified at CITT hearings in Ontario

**PAST PROFESSIONAL ASSOCIATIONS:**

- Association of Firearm and Toolmark Examiners.
- Firearms Peer Reviewer for the Canadian Society of Forensic Science.
- Firearms Peer Reviewer for the Association of Firearm and Toolmark Examiners.
- SWGGUN (Board).
- CDNSWGGUN (Board).
- International Association of Bloodstain Pattern Analysts.
- International Wound Ballistics Association.
- Standards Council Of Canada Technical Committee member ISO/TC272 Forensic Sciences.

**CURRENT PROFESSIONAL ASSOCIATIONS:**

- Association of Firearm and Toolmark Examiners.

Updated: March 2026