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Document ID:

Investigation: DUNPHY – 2015-376186

Document Title

Doc Description

How Received

When Received

Date

Document Type:

Document Summary:

Curriculum Vitae

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Vetting

Submitted/Recommended/Approved By

Date 2016-01-07

Number ID	Category	Reason
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BARR, Darryl	P	

CURRICULUM VITAE**DARRYL G. BARR**

*Forensic Scientist - Firearms and Toolmark Examiner
Manager - Forensic Firearms and Toolmark Laboratory
Calgary Police Service - Calgary, Alberta, Canada.*

Updated on: 2015-04-08

EMPLOYMENT

- Calgary Police Service – Calgary, Alberta.
Manager – Forensic Firearms and Toolmark Laboratory
Investigative Support Section
May 2011 – Present.
- R.C.M.P. National Forensic Services - Halifax, Nova Scotia.
Forensic Scientist – Firearms and Toolmark Examiner
Firearms & Tool Mark Identification Section
August 2002 – May 2011.
- R.C.M.P. National Forensic Services - Winnipeg, Manitoba.
Forensic Scientist – Firearms and Toolmark Examiner
Firearms & Tool Mark Identification Section
September 1992 - August 2002.

EDUCATION / TRAINING

- Bachelor of Science Degree
University of Manitoba, 1992
- Understudy Training Program in Firearms & Toolmark Examination, R.C.M.P. National Forensic Services - Winnipeg, Manitoba, September 1992 to October 1995.

SPECIALIZATION

- Forensic examinations and expert testimony in the areas of:
 - Firearms identification, theory & operation
 - Ammunition examination & identification
 - Shooting scene reconstruction
 - Range determination / gunshot residue pattern analysis
 - Impact damage assessment
 - Interior, exterior, terminal and wound ballistics
 - Tool mark identification & theory
 - Serial number restoration

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CERTIFICATIONS / APPOINTMENTS

- Qualified as an expert witness in the subject of Firearms & Toolmark Identification on sixty (60) occasions in provincial and superior level courts in the provinces of British Columbia, Alberta, Manitoba, Ontario, New Brunswick, Nova Scotia and Newfoundland as well as military court.
- Certified by the Association of Firearm and Toolmark Examiners (AFTE) in *Firearms Evidence Examination and Identification* (December 2013); *Toolmark Evidence Examination and Identification* (December 2013) and *Gunshot Residue Evidence Examination and Identification* (March 2014).
- Certified as a Forensic Firearms and Toolmark Examiner by the R.C.M.P., October 1995.
- Appointed as a "Firearms Analyst" for the purposes of Section 117.13 of the Criminal Code of Canada, October 2001.
- Certified as an "Approved Verifier" by the Registrar, Canadian Firearms Registry, May 1999.
- Previously Certified Master Instructor for "Canadian Firearms Safety Course" and "Canadian Restricted Firearms Safety Course", April 1993.
- Previously Certified Instructor for "Manitoba Hunter and Firearm Safety Training Course", 1993-2002.
- Previously Certified Instructor for "Manitoba Junior Rifle Clubs", 1991-2002.

ADDITIONAL TRAINING

- Autodesk 3ds Max Design Fundamentals, IMAGINiT Technical Training Services, Calgary, AB, December 2014.
- Autodesk Revit Architecture Fundamentals, IMAGINiT Technical Training Services, Calgary, AB, November 2014.
- IBIS Certified Trainer Training Course for BRASSTRAX, BULLETRAX and MATCHPOINT, Forensic Technology, Montreal, Quebec, July 2014.
- Suppressor Design and Examination Workshop, AFTE Training Seminar, Seattle, WA, May 2014.
- 3D Technology Workshop, AFTE Training Seminar, Seattle, WA, May 2014.
- Demystifying Error Rates Workshop, AFTE Training Seminar, Seattle, WA, May 2014.
- Science Behind Firearm Individualization Workshop, AFTE Training Seminar, Albuquerque, NM, June 2013.

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ADDITIONAL TRAINING (Cont'd)

- ASCLD/LAB Measurement Confidence Workshop, AFTE Training Seminar, Albuquerque, NM, June 2013.
- Microscopy Database Workshop, AFTE Training Seminar, Albuquerque, NM, June 2013.
- Sub-Class Characteristics Workshop, AFTE Training Seminar, Buffalo, NY, June 2012.
- IBIS BRASSTRAX-3D and IBIS MATCHPOINT+ User Courses, Forensic Technology Inc., Calgary, AB, June 2011.
- Crime Scene Analysis and Reconstruction Workshop, ACSR Training Seminar, Jacksonville, FL, February 2011.
- Bullet Performance, Perforation of and Deflection by Various Target Materials Workshop, AFTE Training Seminar, Henderson, NV, May 2010.
- Home-Made Suppressors Construction and Function Workshop, AFTE Training Seminar, Henderson, NV, May 2010.
- Forensic Mapping with MapScenes software, Total Station and Evidence Recorder. MapScenes Certified Professional Training, Newmarket, ON, May 2008.
- Forensic Shooting Scene Reconstruction Course, Forensic Science Consultants, LLC, Vancouver, BC, February 2008.
- Wound Ballistics Course, Dr. Besant-Matthews, Toronto, ON, December 2005.
- 3D Studio VIZ visualization software, custom training, CAD/CAM Solutions of Canada Inc., Winnipeg, MB, March 2003 and June 2005.
- Mathematics of Shooting Scene Reconstruction Workshop, AFTE Training Seminar, Phila., PA, 2003.
- Hi-Point Armorer's / Familiarization Course, AFTE Training Seminar, Phila., PA, 2003.
- Savage Arms, Inc. Basic "Tactical Rifle" Armorers Course, AFTE Training Seminar, Phila., PA, 2003.
- Shooting Scene Reconstruction Course, Forensic Science Services, Inc., Paulden, Arizona, 2002.
- Shooting Incident Reconstruction Workshop, ACSR Conference, 2002.

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ADDITIONAL TRAINING (Cont'd)

- AutoCAD 2002 Level 1 software, CAD/CAM Solutions of Canada Inc., Winnipeg, MB, March 2002.
- Bureau of Alcohol, Tobacco and Firearms (BATF) Magnetic Particle Inspection Serial Number Restoration School, Edmonton, AB, March 2000.
- FBI Techniques in Firearms Identification School - FBI Academy, Quantico, VA, February 2000.
- Bullet Trajectory Analysis Workshop, ACSR Conference, 1999.
- FBI Bullet Trajectory Analysis School - FBI Academy, Quantico, VA, June 1998.
- Canadian Society of Forensic Science Wound Ballistic Workshop - Regina, SK., September 1997.
- Beretta U.S.A. Armorer Training Program on M92/96 Pistols - Regina, SK., September 1997.
- Colt's Law Enforcement Armorer's Course on M16/AR-15 Rifles - Regina, SK., September 1997.

MANUFACTURING FACILITIES TOURED (firearms; ammunition; tools)

- ONTARIO KNIFE CO./QUEEN CUTLERY CO. - Franklinville, NY, June 2012.
- KA-BAR KNIVES/CUTCO CUTLERY - Olean, NY, June 2012.
- PRETORIA METAL PRESSINGS (PMP) - Pretoria West, South Africa, November 1998.
- VEKTOR - Lyttelton, South Africa, November 1998.
- TRUVELO Armoury Manufacturing Division - Lyttelton, South Africa, November 1998.
- CARL WALTHER GmbH SPORTWAFFEN - Ulm, Germany, November 1998.
- ULM PROOF HOUSE - Ulm, Germany, November 1998.
- GLOCK GmbH - Deutsch-Wagram, Austria, October 1998.
- HECKLER & KOCH GmbH - Oberndorf, Germany, October 1998.
- FN HERSTAL S.A. - Herstal, Belgium, October 1998.
- REMINGTON ARMS - Ilion, NY, May 1996.

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MANUFACTURING FACILITIES TOURED (Cont'd)

- AUTO ORDNANCE CORP. - West Hurley, NY, May 1996.
- SCHRADE CUTLERY CORP. - Ellenville, NY, April 1996.
- COLT'S MANUFACTURING CO. INC. - Hartford, CT, April 1996.
- MARLIN FIREARMS CO. - North Haven, CT, April 1996.
- O.F. MOSSBERG AND SONS - North Haven, CT, April 1996.
- U.S. REPEATING ARMS CO. - New Haven, CT, April 1996.
- THE WILSON ARMS CO. - Brantford, CT, April 1996.
- THE CORNWALL & PATTERSON CO. - Bridgeport, CT, April 1996.
- STURM, RUGER & CO. INC. and PINETREE CASTINGS - Newport, NH, April 1996.
- SMITH & WESSON - Springfield, MA, April 1996.
- FEDERAL CARTRIDGE COMPANY - Anoka, Minnesota, November 1993.

PROFESSIONAL AFFILIATIONS

- Association of Firearm and Tool Mark Examiners (AFTE)

RESEARCH / PUBLICATIONS

- MacAulay, L.E., Barr, D.G., Strongman, D.B. Effects of decomposition on gunshot wound characteristics: under moderate temperatures with insect activity. J Forensic Sci 2009; 54(2):443-447.
- MacAulay, L.E., Barr, D.G., Strongman, D.B. Effects of decomposition on gunshot wound characteristics: under cold temperatures with no insect activity. J Forensic Sci 2009; 54(2): 448-451.
- Barr, D.G., Modification to the common trigonometric method of bullet impact angle determination. AFTE Journal 2001; 33(2): 116-121.
- Barr, D.G. The trig-elliptical method of bullet impact angle determination. AFTE Journal 2001; 33(2): 122-124.

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RESEARCH / PUBLICATIONS (Cont'd)

- Barr, D.G. Para-Ordnance Model 85 dye marking tactical machine pistol. AFTE Journal 1997; 29(1): 3-13.

TRAINING / PRESENTATIONS GIVEN

- Guest speaker - "Principles and methods used in the 3D reconstruction of the shooting deaths of four RCMP officers in Mayerthorpe", Canadian Identification Society 35th Annual Educational Conference, Calgary, Sept. 2012.
- Instructor - Forensic Science Diploma Program, Saint Mary's University, Halifax, NS, 2004 - 2010.
- Instructor - RCMP Forensic Expert Training delegation to China Criminal Police University, Shenyang, China, June 2006.
- Guest speaker - Atlantic Canada Death Investigator's Seminar, Halifax, NS, 2006.
- Guest speaker - Seminar for Crown Prosecutor's of Newfoundland and Labrador, St. John's, NL, August 2006.
- Instructor - Techniques in Bullet Trajectory Analysis course, Naif Arab Academy for Security Sciences, Riyadh, Kingdom of Saudi Arabia, April 2001.
- Research presented - "The trig-elliptical method of bullet impact angle determination", at Association for Crime Scene Reconstruction (ACSR) 10th International Training Conference - Atlanta, GA, October 2000.
- Research presented - "The trig-elliptical method of bullet impact angle determination", at Canadian Society of Forensic Science 47th Annual Conference - Ottawa, ON, November 2000.

TRAINING SEMINARS ATTENDED

- Association of Firearm and Tool Mark Examiners (AFTE) 45th Annual Training Seminar - Seattle, WA, May 2014
- Association of Firearm and Tool Mark Examiners (AFTE) 44th Annual Training Seminar - Albuquerque, NM, June 2013.
- The 2nd Biennial Symposium: "Expert Forensic Evidence in Criminal Proceedings", Osgoode Hall Law School, York University, Osgoode Professional Development Centre, Toronto, ON, October 2012.

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TRAINING SEMINARS ATTENDED (Cont'd)

- Association of Firearm and Tool Mark Examiners (AFTE) 43rd Annual Training Seminar - Buffalo, NY, June 2012.
 - Association for Crime Scene Reconstruction (ACSR) 20th International Training Conference - Jacksonville, FL, February 2011.
 - Association of Firearm and Tool Mark Examiners (AFTE) 41st Annual Training Seminar - Henderson, NV, May 2010.
 - Association of Firearm and Tool Mark Examiners (AFTE) 34th Annual Training Seminar - Philadelphia, PA., May 2003.
 - Association for Crime Scene Reconstruction (ACSR) 12th International Training Conference - Denver, CO, October 2002.
 - Association for Crime Scene Reconstruction (ACSR) 11th International Training Conference - Las Vegas, NV, October 2001.
 - Canadian Society of Forensic Science 47th Annual Conference - Ottawa, ON, November 2000.
 - Association for Crime Scene Reconstruction (ACSR) 10th International Training Conference - Atlanta, GA, October 2000.
 - Association for Crime Scene Reconstruction (ACSR) 9th International Training Conference - Kansas City, MO, September 1999.
 - Association of Firearm and Tool Mark Examiners (AFTE) 27th Annual Training Seminar - Milwaukee, WI, July 1996.
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