

PROFILE

Forensic Scientist with over 26 years experience in police investigations and forensic identification. Has an international reputation of developing innovative applications of scientific principles to the investigative process. Court certified expert in Forensic Geology (Canada and United States), Fingerprint Identification, and Photography with ability to provide opinion evidence on Tool Mark Identification and ballistics. Forensic Geological Consultant to the State of Illinois Coroners and Medical Examiners Association.

EXPERIENCE

Tiberius Gold Corp., Vancouver BC **2007-present**
CEO

Munroe Geological Services Ltd., Vancouver, BC **2005-Present**
President
International geological and forensic consulting practice.

Wind River Resources Ltd., Vancouver, BC **2005-2008**
Director
Public company holding mining properties in the Cariboo region of British Columbia.

Innovative Innovations Inc., Vancouver, BC **2003-Present**
VP of Business Development
Independent Forensic Consultant and Professional Geoscientist

Project Evenhanded – Missing Women Joint Taskforce, Port Coquitlam, BC **2002**
Forensic Identification Specialist
Joint Operation between Royal Canadian Mounted Police (R.C.M.P.) and Vancouver Police Department

Winnipeg Police Service, Winnipeg, MB **1982-2004**
Forensic Identification Specialist/ Police Constable
Served as acting police sergeant, crime scene specialist, detective and fully operational uniformed police constable. Certified level 3 Arson Investigator. Court certified expert in fingerprint identification, photography and forensic geology. Provided a complete forensic service package while working within the identification section. Acted as a forensic consultant since 1999.

- Invented a method of fingerprinting porous surfaces (e.g. concrete block). The discovery resulted in an international reputation for the Service, establishing a new international standard for forensic procedure.
- Published several articles on investigative techniques. This led to a television show educating the public on special methods that can be used to locate, arrest and convict high profile career criminals.
- Seconded by the Illinois State Police to assist in the investigation of a homicide. The successful consultation created a new link between Canadian and U.S. Law Enforcement. Named as **Forensic**

Geological Consultant to the State of Illinois Coroners and Medical Examiners Association.

- Developed a 3-D modelling technique to assist in the prosecution of a drug trafficking case. This was accepted in both the Provincial Judges Court and the Court of Queens Bench trials, resulting in a conviction and establishing the technique in case law.
- Seconded by the RCMP on several occasions to assist in major case crime investigations using forensic geological techniques.
- Awarded 20 Year Exemplary Service Medal
- Invited to perform lectures and seminars on forensic geological techniques at universities, colleges and crime labs in Canada and the United States

Lafarge Canada Inc., Vancouver, BC**1999-2001****Land and Resource Manager**

Regional geologist, managed the local properties and reserve assets of Lafarge in the Western Canadian region.

- Opened a previously closed area to pit development, by working effectively with neighbourhood residents, to obtain permits, explore and purchase lands adding significant reserves to the company inventory.
- Successfully re-engaged and completed stalled negotiations to acquire a reserve area that will generate a return on investment of over 10 times.
- Developed a new scientific testing method to assess reserve quantity and quality without excavating. This enables both customers and the company to enter into resource contracts with confirmed reserve information.

Sutherland Minerals Ltd., Selkirk, MB**1984-Present****President**

Gold mining development corporation holding properties in Bissett, Manitoba.

Munroe Geological Services, Winnipeg, MB**1979-Present****Owner, Manager, Consultant**

A full service industrial minerals consulting firm. Specialized in locating, exploring, permitting and developing resource properties in Canada. Based in Winnipeg, but conducted business throughout Canada and the U.S. Acted as an industry liaison to various levels of Government. Partnered with other consultants and engineering firms to broaden the scope of projects as required.

- Played a significant role in grandfathering geoscientists into the Association of Professional Engineers in the Province of Manitoba, resulting in a fair and open process in the Registered Certification of geoscientists and a strong association.

Lafarge Canada Inc., Winnipeg, MB**1977-1981****Geologist**

Located, explored and secured permits for new aggregate reserves.

EDUCATION

- University of Manitoba, Winnipeg, MB** **1972-1977**
Bachelor of Science, Major in Earth Science, Minor in Geography.
• Member of the Senate of the University
• Member of the Senate Appeals Board
• Member of the Student Council, Faculty of Science
- Winnipeg Police Academy, Winnipeg, MB** **1982- 1983**
- Winnipeg Police Academy, Winnipeg, MB** **1987**
• Criminal Investigators Course
- Manitoba Fire College, Brandon, MB**
• **Fire Cause Determination Level I** **1989**
- Canadian Police College, Ottawa ON** **1991**
• **Forensic Identification Specialist Certificate**
• **Henry Fingerprint Classification Certificate**
• C.P.C. Class President
• Re-designed portions of the Canadian Police College photography training syllabus, to facilitate the learning of foreign students and coached them on the new methods.
- International Cement Microscopy Association, Costa Mesa, CA** **1992**
14th International Conference on Cement Microscopy
- Manitoba Fire College, Brandon, MB**
• **Fire Cause Determination Level II** **1994**
- Royal Canadian Mounted Police, D Division, Winnipeg, MB** **1994**
• **Advanced Forensic Identification Course**
- St. Boniface Hospital, Department of Pathology, Winnipeg, MB** **1995**
• **Forensic Pathology Course**
- Canadian Police College, Ottawa ON**
• **Senior Forensic Identification Specialist Certificate** **1996**
- Manitoba Fire College, Brandon, MB**
• **Fire Cause Determination Level III** **1996**
- Canadian Identification Society Forensic Conference, Edmonton, AB** **1997**
• **Certificate in DNA Collection Techniques**
- International Association of Bloodstain Pattern Analysts, Toronto, ON** **1998**
Toronto Police Service Forensic Identification Services
• **1998 Joint Conference**
- 1999 Medicolegal Death Investigation Conference, Collinsville, IL** **1999**

Australian and New Zealand Forensic Science Society, Wellington, New Zealand **2004**
17th Annual Symposium on the Forensic Sciences

International Organization of Asian Crime Investigators & Specialists, Honolulu, HI **2004**
First International Conference on Asian Organized Crime and Terrorism

Southern Association of Forensic Scientists, Orlando, FL **2004**
Midwestern Association of Forensic Scientists
Mid-Atlantic Association of Forensic Scientists
Canadian Society of Forensic Science
• **2004 Joint Conference**

The Jordanian Society of Forensic Medicine **2006**
The first Jordanian International Conference on Forensic Sciences and Medicine
The Second Islamic Countries Forensic Medicine Congress
The Second Conference of Arab Forensic Pathologists and Physicians Union
Amman, Jordan – September , 2006

The 2nd International Workshop on Criminal and Environmental Forensics **2007**
Heriot-Watt University, Edinburgh, UK
November 2007

AFFILIATIONS

Registered Professional Geoscientist with the Association of Engineers and Geoscientists of Manitoba
Registered Professional Geoscientist with the Association of Engineers and Geoscientists of British Columbia
Fellow of the Geological Association of Canada
Member of the Canadian Society of Forensic Science
Member of the American Society of Forensic Geologists
Forensic Geological Consultant to the State of Illinois Coroners and Medical Examiners Association
Advisor and Member of Board of Editors to the Internet Journal of Forensic Medicine and Toxicology
Member of the Canadian Institute of Mining and Metallurgy
Member of the Canadian Sedimentology Research Group
Past Regional Director of the Canadian Identification Society
Past Regional Educational Program Director for the Canadian Institute of Mining and Metallurgy
Past Director of the Manitoba Prospectors and Developers Association
Member of the International Organization of Asian Crime Investigators & Specialists

Lecture Presentation and Training History

- Regional Identification Workshop
RCMP "D" Division, Winnipeg, Manitoba – 1993
- Annual Conference of Canadian Society of Forensic Science
Winnipeg, Manitoba – 1993
- Advanced Forensic Identification Training Workshop
RCMP "D" Division, Winnipeg, Manitoba – 1994
- Manitoba Crown Attorney's Conference, Forensic Evidence Seminar
Program Co-ordinator, Lecturer and Liaison with RCMP Forensic Laboratory
Winnipeg, Manitoba – 1994
- Senior Identification Course
Canadian Police College, Ottawa, Ontario – August 1995
- Senior Identification Course
Canadian Police College, Ottawa, Ontario – September 1995
- Senior Identification Course
Canadian Police College, Ottawa, Ontario – August 1996
- Major Crimes Investigative Techniques Course
Canadian Police College, Ottawa, Ontario – August 1996
- University Of Manitoba
Earth Sciences Department – April 1997
- Senior Identification Course
Canadian Police College, Ottawa, Ontario – August 1997

- Oakland County Crime Lab
Detroit, Michigan – November 1997
- Michigan State Crime Laboratory
Saginaw, Michigan – November 1997
- Michigan State Crime Laboratory
Northville, Michigan – February 1998
- The McCrone Group Laboratory
Chicago, Illinois – February 1998
- Illinois State Police, Div. Of Forensic Services
Forensic Science Center At Chicago – February 1998
- Ohio University, Department Of Chemistry
Clippinger Laboratories, Athens, Ohio – February 1998
- Marshall University, School Of Medicine Forensic Science Program
Huntington, West Virginia – February 1998
- City Of Columbus Crime Laboratory
Columbus, Ohio – February 1998
- University Of Manitoba
Earth Sciences Department – April 1998
- Michigan – Ontario Identification Association
West Bloomfield Police Department
Forensic Evidence Conference
Harbor Springs, Michigan – June 1998
- Senior Identification Course
Canadian Police College, Ottawa, Ontario – August 1998
- Toronto Police Service Forensic Identification Services
International Association of Bloodstain Pattern Analysts 1998 Joint Conference
October 1998
- Edmonton Police Service Identification Section
Forensic Geological Field Techniques
Edmonton, Alberta – October 1998
- University of Manitoba
Earth Sciences Department – March 1999
- Senior Identification Course
Canadian Police College, Ottawa, Ontario – August 1999

- 1999 Medicolegal Death Investigation Conference
Jointly sponsored by the Illinois Coroners and Medical Examiners Association and the University of Illinois College Of Medicine At Urbana-Champaign
Collinsville, Illinois – August 1999
- 37th Forum On The Geology Of Industrial Minerals
Victoria, BC – May 24, 2001
- Langara College
Geography Department – March 2002
- Central Illinois Regional Commission for Law Enforcement
Patrol Officers guide to Crime Scene Preservation & Evidence Collection
Decatur, Illinois – June 20, 2002
- Central Illinois Regional Commission for Law Enforcement
General Principles of Forensic Geology
Decatur, Illinois – June 21, 2002
- Simon Fraser University, Criminology Department
Introduction to Forensic Geology
Burnaby, BC – February 17, 2003
- Manitoba Prospectors and Developers Association
Introduction to Forensic Geology
Winnipeg, Manitoba – May 7, 2003
- Winnipeg Police Service
Trace Evidence Collection for General Patrol Officers
Winnipeg, Manitoba – May 14, 2003
- Winnipeg Police Service
Trace Evidence Collection for General Patrol Officers
Winnipeg, Manitoba – June 6, 2003
- Winnipeg Police Service
Trace Evidence Collection for General Patrol Officers
Winnipeg, Manitoba – June 21, 2003
- International Police College
Special Presentation to Chinese National Police
Arson Investigation Methods
Winnipeg, Manitoba – July 9, 2003
- International Police College
Special Presentation to Chinese National Police
Forensic Geology and Trace Evidence Collection
Winnipeg, Manitoba – July 10, 2003

- Winnipeg Police Service
Mock Grave Examination Workshop
Winnipeg, Manitoba – September 2003
- Simon Fraser University, Criminology Department
Introduction to Forensic Geology
Burnaby, BC – November 6, 2003
- Winnipeg Police Service
Forensic Photographic Content Analysis Workshop
Winnipeg, Manitoba – March 5, 2004
- New Zealand Police College
Forensic Geology
Wellington, New Zealand – March 26, 2004
- Australian and New Zealand Forensic Science Society
17th Annual Symposium on the Forensic Sciences
Window Screens – Forensic Evidence Collectors
Wellington, New Zealand – March 31, 2004
- Australian and New Zealand Forensic Science Society
17th Annual Symposium on the Forensic Sciences
Forensic Geology
Wellington, New Zealand – March 31, 2004
- Australian and New Zealand Forensic Science Society
17th Annual Symposium on the Forensic Sciences
Grave Site Examination and Investigation Workshop
Wellington, New Zealand – April 4, 2004
- Chaminade University of Honolulu
Forensic Geology
Honolulu, Hawaii – April 14, 2004
- Southern Association of Forensic Scientists
Forensic Soils Workshop
Orlando, Florida – September 20-21, 2004
- The Jordanian Society of Forensic Medicine
The first Jordanian International Conference on Forensic Sciences and Medicine
The Second Islamic Countries Forensic Medicine Congress
The Second Conference of Arab Forensic Pathologist sand Physicians Union.
Amman, Jordan – September 5-8, 2006
- Royal Canadian Mounted Police
Ottawa Headquarters Laboratory
Trace Evidence Collection Lecture
January 25, 2007

- The 2nd International Workshop on Criminal and Environmental Forensics
Heriot-Watt University, Edinburgh, UK
November 2007
- Simon Fraser University, Criminology Department
Forensic Geology
Burnaby, BC – January 9, 2008

Publications/Manuals

- **“Latent Fingerprint Development on a Cement Matrix”**
RCMP Gazette, Vol. 53, No. 12, 1991
Canadian Society of Forensic Science Journal, Vol. 27, No. 1, 1994 (pp. 1-4)
International Association for Identification, California Division, 1992
- **“Explosion Investigation Techniques Handbook”**
Winnipeg Police Service, Identification Unit, 1993
- **“Applications and Methods of Laser Use in Forensic Examinations Handbook”**
Winnipeg Police Service, Identification Unit, 1993
- **“Forensic Geology Methods Handbook”**
Winnipeg Police Service, Identification Unit, 1994
- **“Forensic Geology”**
RCMP Gazette, Vol. 57, No. 3, 1995
- **“Critical Incident Map Sets for Greater Winnipeg Schools”**
Winnipeg Police Service, July 2003