

## **CURRICULUM VITAE**

**NAME:** R. BRUCE MARCELLUS, CCFI-C, CFEI, CVFI, CFMI  
FIRE/EXPLOSION INVESTIGATOR

**ADDRESS:** Origin and Cause Inc.  
1336 Sandhill Drive  
ANCASTER, Ontario  
L9G 4V5

**HOME BASE:** Thunder Bay, Ontario

### **SUMMARY OF EXPERIENCE**

- Fire/Explosion Investigator- 10 years
- Police Officer- 19 years
- Investigation of over 500 fires

### **AREAS OF EXPERTISE**

- Fire scene control and security
- Fire scene assessment and examination
- Collection and handling of exhibits
- Interview techniques
- Post-scene assessment
- Off-scene investigation
- Analysis of documentary evidence
- Expert witness testimony
- Fire investigation training
- Fire cause and related research

## EDUCATION

Ontario Police College  
Aylmer, Ontario  
Recruit Training – 1974/75 – Diploma

Algonquin College of Applied Arts and Technology  
Ottawa, Ontario  
Recreational Leadership – Diploma

Bell High School  
Ottawa, Ontario  
Arts and Science – Diploma

## PROFESSIONAL EXPERIENCE

2000 to present	Fire/Explosion Investigator Origin and Cause Inc.
1996 to 2000	Fire Investigator Office of the Fire Marshal Ministry of the Solicitor General & Correctional Services
1988 to 1996	Ontario Provincial Police Ministry of the Solicitor General & Correctional Services
1985 to 1988	Wiaraton Police Force Town Of Wiaraton, Ontario (Absorbed by Ontario Provincial Police)
1982 to 1985	Self employed - Foods
1974 to 1982	Metropolitan Toronto Police Toronto, Ontario
1972 to 1974	Recreation Supervisor, Ontario Hospital School, Cedar Springs

**PROFESSIONAL CONTINUING EDUCATION**

- 1975                      Recruit Training A/B  
                             Ontario Police College  
                             Aylmer, Ontario
- 1979                      In-Service Training  
                             Charles O. Bick College  
                             Toronto, Ontario
- 1986                      Advanced Police Training  
                             Ontario Police College  
                             Aylmer, Ontario
- 1988                      Advanced Police Training  
                             Ontario Police College  
                             Aylmer, Ontario
- 1991                      Ontario Provincial Police – Marine  
                             Officer Training  
                             Ontario Fire College  
                             Gravenhurst, Ontario
- 1993                      Scenes of Crime Officer Training  
                             Ontario Provincial Police  
                             Barrie District Headquarters  
                             Barrie, Ontario
- 1994                      Arson Detection  
                             Office Of The Fire Marshal  
                             Fort Frances, Ontario
- 1995                      Police Leadership and Management  
                             Distance Education Development  
                             Dalhousie University  
                             Halifax, Nova Scotia
- 1996                      National Fire Protection Association  
                             NFPA 921  
                             Office Of The Fire Marshal and Royal Insurance  
                             Toronto, Ontario

**PROFESSIONAL CONTINUING EDUCATION**

- 1996                      Fire Investigation Techniques  
Canadian Association of Fire Investigators  
Sir Sanford Fleming College  
Lindsay, Ontario
- 1996                      Fuels Safety and Equipment  
Office Of The Fire Marshal  
Sudbury, Ontario
- 1996                      Level II Fire Investigation  
Canadian Fire Investigation School  
Acadia University  
Wolfville, Nova Scotia
- 1996                      Fire Cause Determination  
Metro Toronto Arson Task Force  
Pickering, Ontario
- 1996                      Vehicle Fire Investigation  
Canadian Association of Fire Investigators  
Scarborough, Ontario
- 1996                      Internal Office Training  
Office Of The Fire Marshal  
Fire Investigations Section
- 1997                      Fire Cause Determination  
Office Of The Fire Marshal  
Brampton, Ontario
- 1997                      Fire Investigation - Interview  
Techniques  
International Association of Fire  
Investigators (I.A.A.I.)
- 1997                      Fire Cause Determination  
Canadian Association of Fire Investigators  
Bracebridge, Ontario

**PROFESSIONAL CONTINUING EDUCATION**

- 1997 Certified Fire And Explosion Investigator, National Association of Fire Investigators
- 1999 Certified Fire Marshal's Investigator Office Of The Fire Marshal
- 1999 Post Blast Technician's Course Canadian Police College, Ottawa
- 2001 Investigation of Gas and Electrical Fires Fire Findings Ls., Benton Harbour, Michigan
- 2001 Certified Canadian Fire Investigator- Level C
- 2003 National Advanced Fire, Arson and Explosion Investigation, Eastern Kentucky University
- 2003 Fire Investigation/Arson Task Force Seminar, I.A.A.I./Ontario Provincial Police, Thunder Bay
- 2003 Certified Vehicle Fire Investigator (CVFI) - NAFI, Eastern Kentucky University

**FIRE TESTS CONDUCTED**

- 1996
- Heat from halogen floor lamp to igniting cloth
  - Ignition of paper with a match and related burn patterns on furniture/carpeting
  - Explosion (gasoline and dynamite) and the resulting fire
  - Fire set on lamp oil-soaked paper and resulting burn patterns from trailers on carpeting and furniture
  - Ignition time of floor space heater to burn bed frame
  - Time for two litres of cooking oil to ignite into fire
  - Corn oil/lard in pot on stove – time to ignition and resulting fire when water poured on pot
  - Burning of wooded clothing display shelves using paper and matches
  - Combustion of polystyrene
- 1997
- Demonstration test burns of two school bus vehicles testing ignition, fire spread, flammability and toxicity
- 1999/2000
- Demonstration test burns in vehicles and structures involving various combustible materials and flammable liquids – Fire Cause Determination Courses – to assist students in determining the cause and origin of fires in relation to fire spread, burn patterns, weather, etc.

**EXPERT WITNESS TESTIMONY**

- 10 times as a fire investigator
- Numerous times throughout my police career

**LECTURES/TRAINING PROVIDED TO OTHERS**

<u>DATE</u>	<u>TOPIC</u>	<u>PARTICIPANTS</u>	<u>LOCATION</u>
May /03	Vehicle Fire Investigation	Insurance Adjusters, Police, Fire Depts.	Thunder Bay
Feb /01	Fire Investigation	Ins. Adjusters/Police	O.I.A.A.
Jan /01	Fire Investigation	Fire Fighters	Constance Lake F.N.
2000	Member of O.F.M Provincial Training Team – Fire Cause Determination		
Sept /00	Cause Determination	Fire Fighters/Police	Fire Con 2000
April /00	Veh. Fire Cause Deter.	Fire Fighters/Police	Zone 2, Dryden
1999	Member of Provincial Training Team – Fire Cause Determination		
Sept /99	Cause Determination	Fire Fighters/Police	Fire Con 1999
April /99	Veh. Fire Cause Deter.	Fire Fighters	Nestor Falls
Feb /99	Cause Determination	Fire Fighters	Marathon
Feb /99	Cause Determination	Fire Fighters	Nestor Falls
Feb /99	Cause Determination	Fire Fighters	Atikokan
Feb /99	Cause Determination	Fire Fighters	O.F.C
Nov /98	Cause Determination	Fire Chiefs	Fort Frances
Sept /98	Cause Determination	Fire Fighters/Police	Fire Con 1998
June /98	Cause Determination	Fire Fighters/Police	Manitoulin
Mar /98	Cause Determination	Private Investigators	Private Invest. Inst.
Feb /98	Fatal School Bus Fire	C.A.F.I. Members	Toronto Fire Dept.
Jan /98	Fatal School Bus Fire	Fire Fighters	Fergus F.D.
Nov /97	Cause Determination	Private Investigators	Private Invest. Inst.
Oct /97	Fatal School Bus Fire	O.F.M. Investigators	O.F.C.
Sept /97	Fatal School Bus Fire	O.F.M. Investigators	O.F.C.

**PROFESSIONAL AFFILIATION**

Canadian Association of Fire Investigators

Member since 1996

National Association of Fire Investigators

Member since 1997

International Association of Arson Investigators

Member since 2001

**WORKS PUBLISHED**

“ Fatal School Bus Fire Investigation” - *The/Le Journal*  
(Canadian Association of Fire Investigators) June 1998