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## **Ian MacDonald P. Eng., - President**

B.Sc. Electrical Engineering, Queen's University 1985

### **Areas of Practice**

- Fire Protection Engineering
  - Performance-Based Solution
  - Fire Systems Design
  - Fire Systems Commissioning
- Building and Fire Code Consulting
- Fire Safety Planning
- Authority Relations
- Forensic Investigative Engineering
  - Origin and Cause
- Due Diligence

### **Professional Experience**

RJ Bartlett Engineering Ltd, Fredericton, NB 1995 to present

- President (2016 – Present)
- General Manager (2000 – 2015)
- Fire Protection Consultant
- Project Coordinator

Leber/Rubes Inc., Toronto and Ottawa, ON 1988-1995

Rolf Jensen & Associates Ltd., Toronto, ON 1985-1988

- Fire Protection Systems Designer
- Code Consultant
- Commissioning Agent

### **Affiliations**

Registered/Licensed with Professional Engineering Associations in the following Provinces and Territories:

Alberta  
Manitoba  
New Brunswick  
Northwest Territories  
Nova Scotia  
Nunavut  
Ontario

- Consulting Engineers of New Brunswick (President 1998/1999)
- Association of Consulting Engineers of Canada (Board 2003 – 2007)



## **Committees**

- FiRECAM Atlantic Working Group
- Society of Fire Protection Engineers
  - Member of Performance-based Fire Protection Analysis and Design Task Group
- Association of Professional Engineers and Geoscientists of New Brunswick
  - Admissions & Internship Committee 1996 – 2002
  - Consulting Practice Committee 2000 – 2001 (Chair)
- Canadian Standards Association
  - Member, Former Technical Subcommittee on Health Care Facility Commissioning
- Underwriters' Laboratories of Canada
  - Member of Fire Alarm System Standards Subcommittees on Installation (S524), Inspection and Testing (S536), Verification (S537), and Ancillary Devices (S573)
- National Building Code of Canada
  - Member of Standing Committee on Use and Egress, 2009 – Present

## **Papers and Presentations**

The following represents a sample of the presentations/articles by Ian MacDonald.

- Alternative Solutions Process, Manitoba Building Officials Association, 2019.
- National Building Code, Fire and Emergency Services NL, St. John's, NL, 2015.
- Fire Safety Plans, City of Charlottetown, PE, 2012.
- Intents and Objectives of the National Building Code, Department of Foreign Affairs and International Trade, Gatineau, QC, 2011.
- Sprinkler and Standpipe Systems, New Brunswick Building Officials Association, April 2008.
- Part 3 of the National Building Code, Daltech, 2003/Present.
- Objective-Based Codes and Performance-Based Solutions, Daltech, 2002/Present.
- Effective Application of Codes Technical Seminars, Halifax, NS, November 2000.
- Performance-Based Solutions, New Brunswick Building Officials Association, 1999.
- Part 4 of the National Fire Code, Nova Scotia Association of Fire Chiefs, 1998.
- Fire Protection for the Palladium Arena Complex (Corel Centre), Society of Fire Protection Engineers, Ottawa, 1995.
- "Smoke Control Systems Commissioning: A Team Effort", Canadian Consulting Engineer, July/August 1991.
- Development and Application of Fire Exposure Requirements, Ontario Building Officials Association, 1987.