

**Ben Coles, M.Sc.E., MBA, P.Eng., PE**  
**Fire Protection Engineer**

B.Sc. Mechanical Engineering, University of New Brunswick, 2003  
M.Sc. Fire Protection Engineering, Worcester Polytechnic Institute, Spring 2009  
MBA in Engineering Management, University of New Brunswick, Fall 2011

**Areas of Practice**

- Client Service
- Fire Protection Engineering
  - Fire Modeling and CFD Simulation
  - Fire Dynamics
  - Heat transfer analysis
  - Sprinkler system design
- Risk/Consequence Analysis
- Building and Fire Code Consulting
  - Performance-Based Solutions
  - Due diligence audits
  - Fire safety planning
  - Authority Relations
  - Technical Training

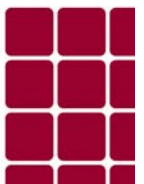
**Professional Experience**

RJ Bartlett Engineering Ltd, Fredericton, NB, January 2003 to present

- Building and fire code consulting
- Fire modeling and analysis
- Client service

Coles Associates Ltd., Charlottetown, PEI, July 1998 to September 2002 (summer employment)

- Preparation of drawings for various projects
- Contract administration
- Finite element analysis



## **Affiliations**

- Registered Professional Engineer with the APEGNB
- Registered Professional Engineer with Engineers PEI
- Registered Professional Engineer with the APEGNL
- Registered Professional Engineer with the State of Maine, USA, Professional Engineers
- Professional Member with Society of Fire Protection Engineers
- Fellow of Engineers Canada

## **Committees**

- Association of Professional Engineers & Geoscientists of New Brunswick
  - Association Affairs, Vice-Chair, 2009 – Present
  - Association Affairs, Councilor, 2006 – 2008
  - Fredericton Branch, Secretary, 2006
  - Annual General Meeting Planning Committee, 2006 Fredericton Branch, Councilor, 2005
- ACEC-NB, Past President, 2012 – 2019
- The Fredericton United Way 2006-2011 Campaigns
  - Architecture and Engineering Sector Co-Chair
- Society of Fire Protection Engineers
  - Building Information Modeling Task Group
- University of New Brunswick Senior Project Peer Mentor, 2011 – 2016
- YMCA Fredericton, Operations Board, Chair, 2015 – Present

## **Papers and Presentations**

The following represents a sample of the presentations given and/or prepared by Ben Coles:

- “Fuel Cell Energy – Our Future?”
- “Canada’s 2005 National Building Code”
- “Part 3 of the 2015 National Building Code of Canada”
- “Practical Workshop on Applying Part 3 of the 2015 National Building Code of Canada”
- “Active Fire Safety Systems for Buildings”
- Opportunity Analysis Related to the Geographic Expansion of a Specialized Consulting Engineering Firm
- Fire Safety Evaluation Systems and Their Role in Asset Management