

CURRICULUM VITAE

Andrew G. McEwen, B.Eng., B.Sc., CFEI, BCIN 33616

V.P., Forensic Investigations, Robert G. McEwen & Associates Ltd.

Profile

2011 -	Robert G. McEwen & Associates Ltd. – Lead Investigator, Forensics
2003 - 2011	Robert G. McEwen & Associates Ltd. - Forensic Investigator
2004 - 2008	Bachelor of (Civil) Engineering, Ryerson University
2001 – 2003	Masters in Education, State University of New York
1996 - 2000	Bachelor of Science in Mathematics, Queen's University

Relevant Experience

Upon receipt of a bachelor's degree in science from Queen's University, where his studies focused on mathematics and the application of probability, Andrew accepted the position of Forensic Investigator with Robert G. McEwen & Associates Ltd. At that time, Andrew's responsibilities included document reviews and field inspections pertaining to the determination of cause of structural and vehicular fires, as well as the supervised preparation of forensic reports.

Following completion of a masters degree in education, in 2004 Andrew entered the civil engineering programme at Ryerson University, where his studies focused on the assessment, design and rehabilitation of structures. While completing his studies, Andrew maintained his position with McEwen & Associates and continued to develop his forensic expertise while also gaining experience in structural design and restoration. In 2006, Andrew became a certified legal designer of "small buildings" with the Ministry of Municipal Affairs and Housing (MMAH) in accordance with the 2006 Ontario Building Code (OBC). In 2007, he was qualified as a certified fire and explosion investigator (CFEI) with the National Association of Fire Investigators (NAFI).

Mr. McEwen completed his engineering degree with distinction for academic excellence and is currently in the final stages of obtaining his license to practice professional engineering in Ontario.

To date, Andrew McEwen has completed over one hundred and thirty forensic investigations including: mechanical, material and structural failures; vehicle and structure fires; water losses; and fuel oil losses. Andrew also has extensive experience in the assessment of stairways, ramps, ladders and other structural components with relevance to code compliance. In addition to forensic investigations, he has also prepared, or participated in the preparation of, numerous structural designs pertaining to residential and commercial fire restorations; residential and commercial vehicle impact repair; structural concrete assessment and repair; and farm buildings.

Professional Affiliations

Member, Canadian Association of Fire Investigators
Member, National Association of Fire Investigators
Member, National Fire Protection Association

Seminars and Courses Attended

Fire and Explosion Investigation
Sponsored by the Royal Military College and the National Association of Fire Investigators (NAFI)
Investigation of Appliance and Small Equipment Failure
Sponsored by the Toronto Police Association and the Canadian Association of Fire Investigators (CAFI)
Electrical Motor Failure and Bearing Deterioration
Sponsored by SKF, General Electric and The Electricity Forum
UPS System Failures
Sponsored by Schneider Electric and The Electricity Forum
Condition Assessment of Concrete Structures
Sponsored by Dalhousie University

Publications Reviewed

Ontario Building Code
National Building Code of Canada
National Farm Building Code of Canada
Ontario Electrical Safety Code
Canadian Standards Association (CSA)
S6-06 - Canadian Highway Bridge Design Code
B139-00 - Installation Code for Oil-Burning Equipment
A438-00 - Concrete Construction for Housing and Small Buildings
B149.1-05 - Natural Gas and Propane Installation Code
Technical Safety Standards Association (TSSA)
Ontario Regulation 217/01 - Liquid Fuels
Ontario Regulation 220/01 - Boilers and Pressure Vessels
Ontario Regulation 213/01 - Fuel Oil
Ontario Regulation 212/01 - Gaseous Fuels
Transportation Association of Canada (TAC)
Geometric Design Guide for Canadian Roads
Canadian Wood Council (CWC)
Wood Design Manual
Canadian Institute of Steel Construction (CISC)
Handbook of Steel Construction
Cement Association of Canada (CAC)
Concrete Design Handbook
NFPA 921 - Guide for Fire and Explosion Investigations
Occupational Health and Safety Act (OHSA)
Ontario Regulation 213/91 - Construction Projects

Seminars Presented

“Fuel Oil Claims – A Review of Environmental Loss Related Case Studies”

Co-presented to the claims department of Intact Insurance

“The Art & Science of Forensic Investigation”

Co-presented to the claims department of Federated Insurance

“The Science of Forensic Investigation: Fire Loss”

Presented to the claims department of Farmers’ Mutual Insurance