

Curriculum Vitae

Gary Howard, B.Sc., P.Eng., C.Eng.

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PRACTICE AREAS

- **Material Failure Analysis**
- **Plumbing Fitting Failures**
- **Fuel Oil System Installation & Tank Failure**
- **Hydrogen Gas Installation Assessment**
- **Occupational Safety Investigations**
- **Cranes, Rigging & Hoist Equipment Failures**
- **Machine, Heavy Equipment, Marine & Engine Failures**
- **Window & Glass Failure**
- **Vehicle Component Failure**
- **Shipping Damage Investigation**
- **Sewer Backups**
- **Building Freeze Investigations**

ACADEMIC BACKGROUND

Bachelor of Science Degree in Metallurgical Engineering, Queen's University, 1981

ADDITIONAL COURSES, TRAINING & AWARDS

- “Ductile to Brittle Transition of Plastics” webinar series, Society of Plastics Engineers, September 2012
- Enforcement & Investigative Skills, Justice Institute of BC, 1991

COURT EXPERIENCE

- Qualified as an expert by the Superior Court of Ontario, the Superior Court of BC, the Coroner's Court of BC, and the Criminal Court of BC

PROFESSIONAL SOCIETIES & ASSOCIATIONS

Professional Engineers of Ontario, P.Eng. from 1983-1985, 1998 to present

Designated Consulting Engineer (C.Eng.) in Ontario

Association of Professional Engineers & Geoscientists of BC, 1985-1999

National Fire Protection Association (NFPA):

Member of technical committees NFPA 52 & 57: Alternative Vehicular Fuel Systems

Member of technical committees NFPA 50, 50A, 50B, 51, 51A, 55 & 560: Industrial & Medical Gases

CSA technical committee HGV4: Hydrogen Fueling Equipment



International Organization for Standardization (ISO):

Task group leader

Member of technical committees TC197 WG8, WG9 & WG11: Hydrogen Gas Generators & Fueling Stations

Canadian Transportation Fuel Cell Alliance Codes & Standards member

US Fuel Cell Council: Codes, Standards & Safety committees

California Governor's Council on Hydrogen Codes & Standards

California Fuel Partnership: Codes, Standards & Safety committees

EMPLOYMENT HISTORY

Advantage Forensics Inc., Toronto

Consultant

Oct 2012 to present

Safety and Forensic Engineering, King City

President

1998 to present

Rochon Engineering, Toronto

Forensic Engineer

2005 to 2009

Worker's Compensation Board of BC, Vancouver

Safety Engineer

1987 to 1998

Matec Consultants Ltd., Burnaby

Forensic Engineer

1984 to 1987

Boiler Inspection & Insurance Company, Toronto

Special Accounts Underwrite & Claims Adjuster

1982 to 1984

GM Canada, St. Catharines

Quality Engineer

1981 to 1982



LECTURES

- “Fundamentals of Property & Liability Insurance Law – Product Liability Claims”, Ontario Bar Association, Toronto, October 2012.
- “Codes and Standards in Determining Liability”, McCague Borlack LLP, Toronto, September 2012.
- “Workers Compensation Regulations for Professional Engineers”, University of British Columbia and University of Victoria, 1994 to 1996.

JOURNAL PAPERS & PUBLICATIONS

- "BNQ Canadian Hydrogen Installation Code", Feb. 2007.
- Howard, G.W., Tchouvelev, A.V., Cheng, Z., Agranta, V.M., "Defining Hazardous Zones - Electrical Classification Distances", March 2005.
- "Comparison of Gaseous Hydrogen Properties with Natural Gas", National Hydrogen Association, 2004.
- "Review of Sawmill Fatalities & Serious Injuries 1988-1997", Worker's Compensation Board of BC, 1997.