

K. M. GARY CHEN, MSc, P Eng
CURRICULUM VITAE



Gary Chen is a professional engineer registered in BC, Alberta, Manitoba, and Ontario. He holds a master's degree in Mechanical Engineering from the University of Waterloo, specializing in fire engineering, and a bachelor's degree in Chemical Engineering from UBC. Gary has practiced fire engineering for 15 years and has developed specialized expertise in computational fluid dynamics (CFD) based fire modelling, evacuation modelling and structural fire resistance. His expertise has been applied in various large institutional buildings, hospitals and in transportation sector projects. In addition, his extensive knowledge in risk analysis has seen successful application in alternative solutions to building code compliance for a number of tall mass timber buildings, as well as in collaborating with the province of BC in development code changes to permit 6 storey wood-frame buildings.

SPECIALIZED EXPERTISE

- Design of steel, timber, and concrete structures for fire
- Heat transfer analysis
- Industrial fire engineering
- Fire hazard / risk analysis
- Fire modelling (CFD + Zone)
- Transit facilities
- Explosion prevention design

PROFESSIONAL EXPERIENCE

September 2005 - Present

GHL CONSULTANTS LTD, Building Code Consultants and Fire Science Engineers
Professional Engineer

EDUCATION

April 2007 – August 2010

Master of Applied Science (MSc), Mechanical Engineering

University of Waterloo, Waterloo, Ontario

Thesis: Analysis of Semi-Rigid Connections subject to Fire Loads in a Steel Framework

PROFESSIONAL DEVELOPMENT COURSES

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| 2017 | Human Behaviour in Fire
SFPE Conference, Montreal, QC |
| 2014 | Various Timber Engineering Courses
World Conference on Timber Engineering, Quebec, QC |
| 2011 | Advanced Fire Dynamics Simulator
SFPE Conference, Portland, OR |
| 2009 | Fire Risk and Fire-Resistance , Graduate School Courses
University of Waterloo, Waterloo, ON |

PROFESSIONAL REGISTRATION

- Registered Professional Engineer - British Columbia, Alberta, Manitoba, and Ontario

MEMBERSHIPS / COMMITTEES

- Society of Fire Protection Engineers, National and BC Chapter
- National Fire Protection Association