



Society of Fire Protection Engineers

Southern Ontario Chapter

www.sfpesoc.com

MEETING NOTICE

DATE: Tuesday, January 19, 2010

TOPIC: Fire Protection of Steel Structures - **George Frater**, Canadian Steel Construction Council (CSCC)

ISSUE: This presentation overviews how steel construction is used with respect to the fire safety requirements of Building Codes and will illustrate fire safe designs where the steel structure is expressed in the architectural design or where the steel structure is covered. "Performance-based" or "objective-based" codes are providing an opportunity for fire protection engineers to apply engineered solutions and use advanced calculation techniques. Case examples where fire protection engineering was applied will be cited. The discussion will include:

- ULC S101 Standard, Fire Test and Fire Resistance Ratings
- Steel Material Properties vs. Temperature
- Fire Protection Methods Used for Steel Structures
- Cold-Formed Steel, fire rated floor and wall assemblies (e.g., C-sections)
- Cardington (UK) Research Project – fire tests on an eight storey steel building
- Innovative Performance-Based Fire Safety Designs Steel Structures

George Frater joined the *Canadian Steel Construction Council (CSCC)* in 2002 as a Codes and Standards Engineer. The CSCC is concerned primarily with improved building codes and research related to fire safety of steel structures. George has worked at engineering consultancy firms and a major steel fabricator. He is a Professional Engineer and received his Ph.D. from the University of Toronto in 1991. He participates on the CCBFC Standing Committee on Fire Protection, ULC's Committee on Fire Tests, ASTM's Committee E05 on Fire Standards, CSA's Technical Committee on Wind Turbines, CSA's Technical Committee on Steel Structures for Buildings – S16, CSA's Technical Committee on Blast Resistant Buildings – S850 and AISI's Committee on Framing Standards.

AGENDA: 11:45 am – 12:00 pm – Reception
12:00 pm – 12:45 pm – Lunch
12:45 pm – 2:00pm – Presentation

PLACE: Metro Toronto Board of Trade, First Canadian Place (Adelaide Street entrance-elevator on left to 3rd floor)

COST: \$50 – Paid Members* (\$55 - Without 72 hr. reservation or walk-in)
\$65 – Non-members, Unpaid Members, and Guests of Members
\$30 – Students and Retirees
Cheques should be made payable to "*SFPE - Southern Ontario Chapter*"

DRESS CODE: Business Attire or Jacket and Tie

Continued...

RESERVE BY: Friday January 15, 2010 for the reduced member rate. Reservations are limited and on a first come first served basis.
Cancellations must be received at treasurer@sfpesoc.com by noon, Friday January 15, 2010 , otherwise **No shows will be invoiced.**

CONTACT: Reserve with option to pay online (Paypal): <http://www.sfpesoc.com/Registration.htm> or by E-mail, to Sheila Kerz, Treasurer at treasurer@sfpesoc.com

SFPE THOMAS CHIANG MEMORIAL AWARD:

In an effort to assist the next generation entering the Fire Protection Industry, the SFPE SOC are asking the membership to assist us in raising funds for the SFPE Thomas Chiang Memorial Award by increasing your luncheon or membership fees on a voluntary basis. The Chapter will match all funds donated. Visit our web site for more information about the award.

ATTENTION REGISTERED INSURANCE BROKERS:

Attendees to our luncheon seminars are now eligible for 1-hour technical RIBO credit for their Continuing Education requirements as registered insurance brokers in Ontario. Ask for your certificate by e-mail to ribocredit@sfpesoc.com.