



The Department of Civil and Environmental Engineering of Carleton University is pleased to announce a 3-day Short Course on Occupant Fire Safety In Buildings. The short course will be held at Carleton University on May 16 - 18, 2018.

### **Course description**

The course will introduce participants to code requirements for egress and exits, and fire alarms and voice communication systems. It will cover fire effluents and how they affect people, human behaviour in fire and occupant evacuation during emergencies using simple calculations and advanced computer models. Other topics to be covered include the use of elevators for evacuation in tall buildings, the use of photoluminescent materials to assist evacuation, and firefighter safety. The last day of the course will focus on special life safety cases such as life safety of old age people, hospitals, and correctional facilities.

### **Who should attend?**

This course would be beneficial to all fire safety practitioners and especially to those involved in the design and approval of fire protection systems in buildings, such as: engineers and technicians involved in fire protection, fire safety consultants; regulators; code officials; office of fire marshals and fire commissioners; architects; fire services; building owners and managers.

### **Registration**

To register, please complete the registration form shown on the last page, or go to <http://carleton.ca/cee/workshops-and-courses> and select **Occupant Fire Safety in Buildings**.

### **Cancellations**

To cover our administration costs a fee of \$50 will be charged for cancellations made before 1<sup>st</sup> April 2018. Cancellations made after 1<sup>st</sup> April 2018 cannot be refunded but substitutions (confirmed in writing) can be made at any time without charge.

Time	Wednesday May 16, 2018
8:30	Registrations
9:00	Welcome and Introductions
9:30	NBC requirements for egress, alarms, and communication systems, Paul Lhotsky, CIVELEC Consultants
10:30	Break
11:00	Fire alarm signalling – Audibility vs. Intelligibility, William Kuffner, SNC Lavalin
12:00	Lunch
1:15	Fire dynamics and fire development, Jim Mehaffey, CHM Fire Consultants
2:15	The impact of fires on occupants, Joseph Su, National Research Council
3:15	Break
3:45	Human behaviour in emergencies, George Hadjisophocleous, Carleton University
5:00	Adjournment

Thursday May 17, 2018	
9:00	Simple evacuation calculations, George Hadjisophocleous, Carleton University
9:45	Occupant speeds during evacuation, Derek Gruchy, Seneca College
10:30	Break
11:00	Advanced evacuation models, Steven Gwynne, National Research Council
12:15	Lunch
1:30	Use of photoluminescent markings in the evacuation of tall buildings, Nouredine Benichou, National Research Council
2:30	Use of elevators for evacuation, John Klote, Fire and Smoke Consulting
3:30	Break
4:00	Firefighter safety, Al Evans, Ottawa Fire Services
5:00	Adjournment
Friday May 18, 2018	
9:00	Design for life safety in correctional facilities, Michael Kruszelnicki, Correctional Service Canada
9:45	Design for life safety in hospitals, Sean Bartlett, RJ Bartlett Engineering Ltd
10:30	Break
11:00	Fire safety of seniors in Canada, Roy Strickland
12:30	Lunch
1:30	Moderated Panel Discussion
3:00	Adjournment

**A Short Course – Occupant Fire safety in Buildings**  
**Carleton University, May 16 - 18, 2018**  
**Course Registration Form**

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Province/State \_\_\_\_\_ Postal code: \_\_\_\_\_

Phone number: (\_\_\_\_) \_\_\_\_\_ Fax number: (\_\_\_\_) \_\_\_\_\_

Email: \_\_\_\_\_

<b>Regular registration fee (before April 30, 2018):</b> \$530.97 + HST (\$69.03)	Total: \$600.00
<b>Late registration fee (after April 30, 2018):</b> \$619.46 + HST (\$80.54)	Total: \$700.00
<b>Full-time student registration fee:</b> \$132.74 + HST (\$17.26)	Total: \$150.00
<b>Course Dinner, May 17, 2018 (Optional):</b>	\$80.00
<b>3-day parking permits (Optional):</b> 3 days x \$10.00/day	\$30.00

**Total payment:** \$ \_\_\_\_\_

Fee covers three days of instruction, course notes, break refreshments and lunches.

### Registration

For online registration please go to <http://carleton.ca/cee/workshops-and-courses> and select **Occupant Fire Safety in Buildings**

To pay by cheque, please fill out this form and mail it to the address below along with your cheque or bank draft payable to **Carleton University**

Fire Safety Engineering Short Course  
Department of Civil and Environmental Engineering  
Room 3432 ME, Carleton University  
1125 Colonel By Drive, Ottawa, Ontario, K1S 5B6

**Tel:** (613) 520-2600 (1228)

**Fax:** (613) 520-3951

**Email:** Firesafetycourse@carleton.ca

**Accommodation:** Participants are responsible for making their own arrangements. For a list of hotels in the Ottawa area please go to [www.ottawahotels.com](http://www.ottawahotels.com).

**Directions:** For directions on how to get to Carleton University please go to: <http://carleton.ca/campus/directions/>. and for a campus map please go to <http://carleton.ca/campus/map/>