



FIRE-RESCUE SECOURS-INCENDIE CANADA

CANADIAN ASSOCIATION OF FIRE CHIEFS
L'ASSOCIATION CANADIENNE DES CHEFS DE POMPIERS

Virtually Fire Rescue Canada Conférence Virtuellement SIC

Virtually FRC Webinars: September - December 2020
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SEPTEMBER 14-15
14 AU 15 SEPTEMBRE 2020

FRC2020 Webinar Series

Wildland Urban Interface (WUI) Fires

September 30, 2020 [11:00AM to 12:00PM EDT]

Between 1981 and 2018, 302,538 wildfires occurred in Canada; 685 of these fires resulted in the evacuation of approximately 400,000 people, and 96 of these events resulted in loss of homes, recreational property or businesses, comprising approximately 4015 structures. Insured loss from the five costly events totaled roughly \$4.8 billion. The National Research Council (NRC) of Canada has identified gaps, with respect to the impact of WUI fires, in existing approaches, and established research areas to address these gaps. This presentation will address 1) development of a National Guide for WUI fires for Canada; 2) development of testing methods to better assess construction components; 3) development of modelling methods to better assess the impact of wildfires on buildings; 4) development of WUI fires hazard maps; and 5) development of an evacuation model

Presented by:



NOUREDDINE BENICHOU

Chief Fire Researcher, National Research Council Canada

Dr. Nouredine Bénichou is a Principal Research Officer at the National Research Council (NRC) of Canada. He holds a Ph.D. from Carleton University in Civil and Environmental Engineering and has developed into an international fire expert through an extensive experience in the experimentation and modeling of fire phenomenon. His research areas include fire resistance modeling and experimentation of structures, fire safety in buildings, fire risk analysis and impact of wildfires on the wildland urban interface (WUI). He led and completed large R&D projects to advance understanding of fire conditions and its impact on the occupant population, and assessing this impact in terms of risk and cost, including a current \$1.5M project on the development of a National WUI guide for Canada. He is the author of over 300 technical publications. Before joining the NRC, he worked as a consultant developing design guidelines for use in performance-based building codes and conducting studies on the trade-offs of fire department response time versus sprinkler protection. Dr. Bénichou is a member of the Society of Fire Protection Engineers, Conseil International du Bâtiment, and the Canadian Society of Civil Engineers; represents Canada in ISO/TC92/SC4; and is an Adjunct Professor in the Department of Civil and Environmental Engineering at Carleton University.

