



Distinguished Webinar Series in Earthquake Engineering and Seismology

Organized by the Canadian Association of Earthquake Engineering

Seismic behaviour and design of modern masonry buildings: current status and future needs

Wednesday, February 9, 2022, 3:00 p.m. EDT

Registration Link: https://us02web.zoom.us/webinar/register/WN_kuSZmvmvRUONhpy-8l8ZHw

Abstract

Masonry is the oldest construction technology which has evolved from ancient monuments to modern building applications, and the construction practice is significantly different across the globe. The presentation will be focused on modern reinforced masonry structures, and will discuss seismic behaviour and failure mechanisms, as observed in research studies and evidence from past earthquakes. Seismic design of ductile RM wall structures according to Canadian masonry standard CSA S304-14 will be explained and illustrated through design examples. Future research trends and design applications of modern masonry technology will be also discussed.

Link 1 <https://ccmpa.ca/download/seismic-design-guide-for-masonry-buildings/>

Link 2 <http://www.confinedmasonry.org/>



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Short Bio: Over the last 35 years Dr. Svetlana Brzev has been working on consulting and research projects involving structural and seismic design and retrofitting of masonry structures in Canada and several other countries. Her research has been focused on practical issues related to seismic behaviour and construction of masonry structures. Dr. Brzev has co-authored seismic design guide for masonry buildings in Canada with Dr. Don Anderson (see Link 1) and numerous publications related to earthquake engineering and masonry structures. She served as a member of the Technical Committee responsible for developing current Canadian masonry design standard (CSA S304-14), and is a member of the Technical Committee 250/SC8/WG1 responsible for developing Eurocode 8 provisions for seismic design of masonry buildings. She has been actively involved in several international initiatives related to promoting safe construction of masonry structures in seismically active regions, such as the EERI-sponsored Confined Masonry Network (see Link 2). Dr. Brzev served as Director and Vice-President of EERI, a Director of the Masonry Society, and is currently a Director of the International Association for Earthquake Engineering. Dr. Brzev has taught courses related to design of masonry structures in Canada and India for the last 20 years.