



www.seabc.ca
E-mail: fborjian@masonrybc.org



22 November 2019 – (8:00am to 5:00pm)

Design and Construction of Masonry Buildings in Canada

Date: Friday, November 22, 2019
Venue: HSBC Hall, UBC Robson Square, 800 Robson St, Vancouver, BC
Time: Registration 8:00am, Presentation 8:30am
Presenters: Svetlana Brzev (Ph.D., P.Eng, FEC) Adjunct Professor, Dep. Of Civil Engineering UBC
Farshid Borjian (P.Eng., Struct.Eng.), Executive Director of Masonry Institute of BC
Mark Hagel, (Ph.D., P.Eng.), Executive Director of Alberta Masonry Council
Cost: \$295+tax for SEABC Members. \$345 + tax for non-members, \$145+tax for students
Registration is required: www.seabc.ca/masonry-buildings

This seminar will cover general topics in design and construction of masonry buildings in Canada. Topics include, masonry materials (bricks, blocks, mortar, grout, reinforcement), masonry construction technology, MIBC technical manual, examples of structural masonry and veneer cladding details.

Seismic design of masonry structures: implications of NBC2015 and CSA S304-14, summary of changes in the codes, and Seismic design guide for masonry buildings, (second edition written by Svetlana Brzev and Don Anderson) along with design examples will be reviewed.

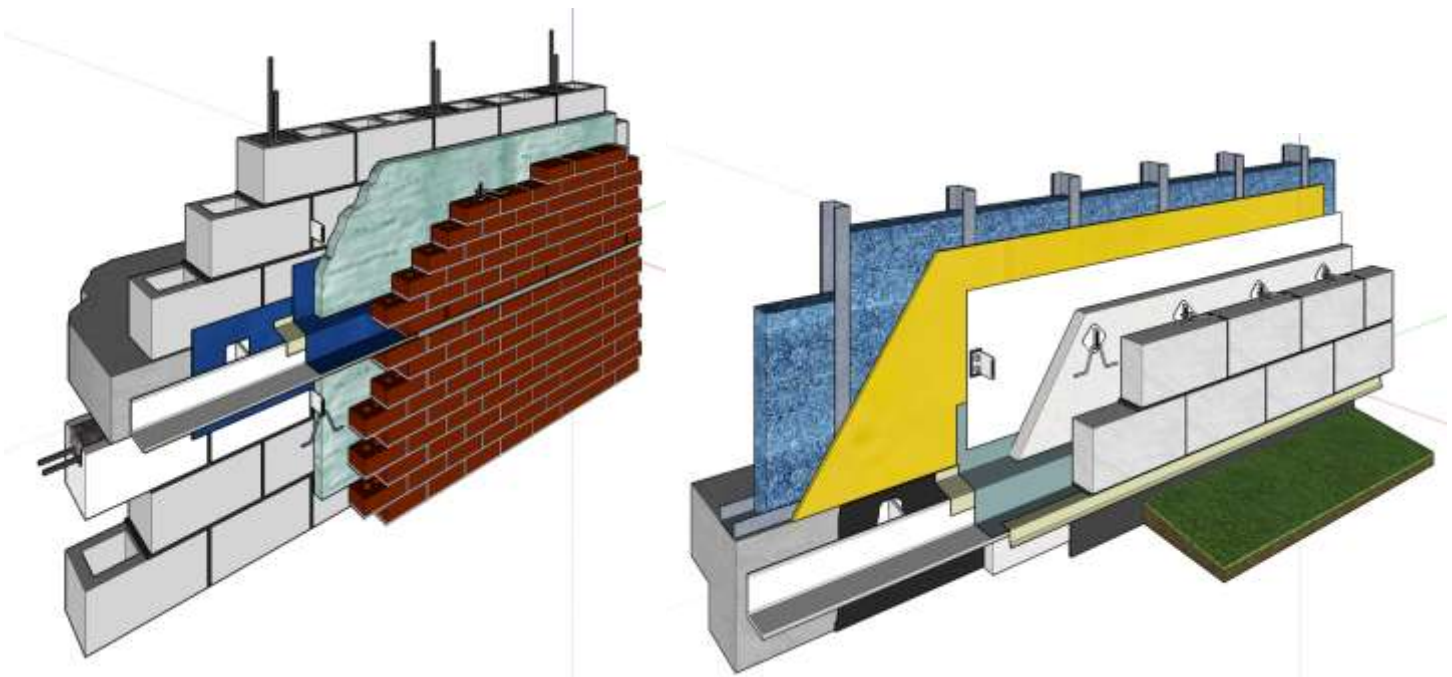
Masonry veneer cladding design and details for full bed and adhered masonry with some real project design examples and construction caveats will also be presented.



Svetlana Brzev, (Ph.D., P.Eng., FEC.) has over 30 years of combined teaching, research, and consulting experience related to structural and seismic design and rehabilitation of concrete and masonry buildings, municipal and industrial facilities. She is an Adjunct Professor at the UBC Department of Civil Engineering and was a faculty at the BCIT Department of Civil Engineering from 2000 until 2016. Dr. Brzev has been actively involved in consulting, research, and education related to design and retrofitting of masonry structures in Canada and internationally. She is an active member of the Technical Committee CSA S304 for design of masonry structures in Canada and Eurocode 8 in Europe. She has co-authored two masonry books for Canada: *Seismic Design Guide for Masonry Buildings* with Prof. Don Anderson and *Masonry Design for Engineers and Architects* with M. Hatzinikolas and Y. Korany.



Farshid Borjian, (*M.A.Sc., P.Eng., PE., C.Eng., MStructE., Struct.Eng.*) has Bachelor and Master's Degree in structural engineering and more than 23 years of experience in structural engineering. He is a registered professional engineer in Canada, United States, Europe, and Middle East. He is the executive director of Masonry Institute of BC, and Canadian Masonry Contractors Association of British Columbia. His special interest in teaching made him one of the instructors of structural engineering courses and a member of board of directors of Certificate in Structural Engineering Program (SEABS-CSEP Program). The courses that he teaches include Masonry Design of Buildings, National Building Code of Canada, Design of Earth Supported Structures, Foundation Design, Concrete Structures and Anchor Bolt Design.



Mark Hagel, (*Ph.D., P.Eng.*) has a Bachelor of Science in Actuarial Science and Applied Mathematics, Bachelor of Science in Civil Engineering and a Doctor of Philosophy in Civil Engineering all from the University of Calgary. Prior to employment with the Alberta Masonry Council, Mark was a Technical Services Engineer for the Canadian Concrete Masonry Producers Association (CCMPA) addressing inquiries from the design community and working in partnership with Canada Masonry Design Centre on the MASS design software. He then moved on to the role of a Building Envelope Engineer and Structural Engineer with the Calgary office of Halcrow Yolles. Mark has also taught first year engineering courses as a sessional professor at both the University of Calgary and Mount Royal University.

