



# BEC Roundup

## **BUILDING SMART WITH 2018 BC BUILDING CODE CHANGES**

Learn about changes in Part 9 of the *BC Building Code* that will come into force December 10, 2018. These changes will include new provisions for stairs, guards, sound transmission and seismic requirements, accessibility, energy and water efficiency standards, and other design elements.

This session will explore a variety of approaches to comply for each of the coming changes. The focus will be on the requirements that apply to single family and low-rise residential buildings.

The seminar was developed in collaboration with the Building and Safety Standards Branch, CHBA-BC, BOABC, EGBC, ASTTBC, AIBC, and new home warranty providers.

Register for a session in your local community or a webinar by going to [www.bcebc.com/wp-content/uploads/2018/09/Building-Smart-2018-BCBC-All-Dates.pdf](http://www.bcebc.com/wp-content/uploads/2018/09/Building-Smart-2018-BCBC-All-Dates.pdf).

## **STEPPING INTO THE FUTURE: FORGING THE PATH TOWARD BETTER BUILDINGS**

On October 26, 2018, the British Columbia Building Envelope Council (BCBEC) held its annual conference and AGM at the JW Marriott Parq in Vancouver, BC.

As a new provincial Building Code cycle begins, there is an ever-increasing emphasis on energy demand and building envelope performance. In response, the BCBEC prepared an exciting program and range of topics for its 2018 annual meeting to discuss these highly relevant upcoming developments. The one-day symposium, which was eligible for Continuing Education credits, provided a platform for thought-provoking, industry-wide knowledge exchange.

Topics included:

- Discussion around the new *BC Energy Step Code* and upcoming *BC Building Code* changes as they relate to building envelope requirements;
- New guidelines on TEDI and energy modelling;
- Whole building airtightness testing;
- Acoustic requirements, thermal comfort and radiant heating; and
- The impact of climate change on building design and adaptation.

## **INNOVATION IN BUILDING SCIENCE: TRANSITION TO LOW CARBON ENERGY BUILDINGS**

On October 31, 2018, the Ontario Building Envelope Council hosted over 200 attendees at its Innovation in Building Science seminar focused on the transition to low carbon energy buildings. Steve Kemp, RDH Building Science, and Rob Quattrocchi, EllisDon, spoke at the event.

During two hour-long innovation showcase / networking sessions, students displayed their research (posters), entrepreneurs and SMEs showcased their technologies, and research associates / assistants and postdoctoral fellows showcased their prototypes, research, and commercialization activities.

Federal and provincial funding agencies Natural Sciences and Engineering Research Council of Canada, Ontario Centres of Excellence (OCE), and Mitacs attended the two networking / innovation showcase sessions. The funding agencies' role is to fund industry-academic collaboration (research projects, development projects, demonstration projects, prototype development, student hiring, and large scale commercialization).

The launch of Architectural Engineering (ArchE) program at University of Waterloo was on display at the event as well. The

program was designed to produce engineers technically skilled in the whole scope of building design, construction, assessment, repair, and refurbishment, with an emphasis on communication, collaboration and design. This studio-based program provides students with both the technical knowledge, as well as the design skills necessary to become industry leaders. This design-driven program is one-of-a-kind in North America. Through the program's studio focus, and exposure to open-ended design problems, students engage in hands-on experience, coupled with peer learning. During their third year, Architectural Engineering students will directly collaborate with Architecture students and spend two academic terms at the School of Architecture in Cambridge.

## **INTEGRATED DESIGN AND COMPLEX ENVELOPE HYGROTHERMAL APPROACH**

On September 26, 2018, the Quebec Building Envelope Council hosted a multidisciplinary presentation on the integration of fenestration systems in architectural prefabricated concrete panels.

BPDL, Groupe Lessard, and UL CLEB discussed jointly executed projects (LUMA Foundation, Gehry Partners / FEDEX Logistics Hall, Artkansas / Hyperion Wood Tower, JP Viguier & Associates), as well as lessons learned as a project team.

Case studies presented took a look at assisted design through coordination of different systems, manufacturing, quality control, and installation of work components and in-situ testing.

The event featured special speaker François Monnet, a civil engineer and associate director of the engineering department at WIGWAM Engineering. Monnet joined WIGWAM in 2010, and his team supports integrated design and quality monitoring of the building envelope. ■

