

# PROGRAM

APPROVED 12 CPD POINTS!

## DAY 1 (October 23, 2024)

7:30 am  
-  
8:30 am  
Breakfast  
Delegate Registration Available

---

8:30 am  
-  
10:00 am  
**Wildfire Resilient Housing**  
Scott Vandermeer, FireSmart | Dan Sandink, ICLR | Lucas Coletta, NRCAN | James Bourget, Graham Finch, and Robin Urquhart, RDH

---

10:00 am  
-  
10:30 am  
Coffee Break

---

10:30 am  
-  
12:00 pm  
**Wildfire Resilient Housing - continued**  
Scott Vandermeer, FireSmart | Dan Sandink, ICLR | Lucas Coletta, NRCAN | James Bourget, Graham Finch, and Robin Urquhart, RDH

---

12:00 pm  
-  
1:00 pm  
Lunch Break

---

\*Start of Concurrent Sessions

**A (Minoru A/B)**

**B (Minoru D)**

**1:00 pm**  
-  
**2:30 pm**

**New Seismic Hazard Mapping for Metro Vancouver: Opportunities for Uptake and Use in the Built Environment**

**CSA F280 HVAC Requirements for Part 9 Buildings**

Allison Chen, EGBC | Thomas Leung, TLSE Engineering Inc | Jessica Shoubridge, Thrive Consulting

Todd Backus, TECA

**2:30 pm**  
-  
**3:00 pm**

Coffee Break

**3:00 pm**  
-  
**4:30 pm**

**An Archaeologist's Insight into Regulatory Archaeology and the Heritage Conservation Act Transformation Project for Home Builders and Property Owners**

**Welcome to the World of Heat Pumps**

Emily Wilkerson, Transportation Investment Corporation

Chris Walsh, Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI)

## DAY 2 (October 24, 2024)

**7:30 am**

-

Breakfast

**8:30 am**

---

**8:30 am**

**BC Building Code 2024 Provisions for Adaptable Dwelling Units**

-

**10:00 am**

Lucas Genereux & Frankie Victor, GHL Consultants Ltd.

---

**10:00 am**

-

Coffee Break

**10:30 am**

---

**10:30 am**

**Single Exit Stair Buildings**

-

**12:00 pm**

Conrad Speckert, LGA Architectural Partners

---

**12:00 pm**

-

Lunch Break

**1:00 pm**

---

\*Start of Concurrent Sessions

	A (Minoru A/B)	B (Minoru D)
1:00 pm - 2:30 pm	<p><b>Explaining the National Code Development Process</b></p> <p>Jun'ichi Jensen, Ministry of Housing</p>	<p><b>Avoiding Building Code Missteps with Small Scale Multi-Unit Housing</b></p> <p>Trevor Welsh, City of Surrey/BOABC</p>
2:30 pm - 3:00 pm	<p>Coffee Break</p>	
3:00 pm - 4:30 pm	<p><b>Mechanical Permit and HVAC Inspection Processes for Part 9 Buildings</b></p> <p>Todd Backus, TECA</p>	<p><b>Leadership in Communication</b></p> <p>Sue Wazny, The Neutral Zone</p>

## Session Summary – Day 1

Session	Time	Summary
Wildfire Resilient Housing	8:30 am - 10:00 am & 10:30 am - 12:00 pm (Minoru A/B)	This educational event will focus on construction-based solutions for building wildland fire resilient homes in British Columbia. Experts from RDH Building Sciences, FireSmart Canada, Natural Resources Canada, and others in the field will talk about measures that can be taken to reduce the damage from wildland fires on the built environment. We will explore options for how to incorporate non-combustible building materials, envelope details, fire-rated wall assemblies, and exterior mitigation measures into Part 9 housing construction. There will be 3 technical presentations: 1) Envelope details and materials: Addressing points of entry from the exterior of the home where embers can penetrate the structure, and the substitution of combustible building materials for non-combustible ones. 2) Constructing a 1hr fire-rated wall assembly: Looking at the different solutions and materials that can be incorporated into a wall assembly to achieve a 1-hr fire-rating, including soffits and windows. And 3) Measures that can be taken outside of the house to improve wildland fire resilience for the structure. A series of infographics and guides, created by NRCan, will be highlighted throughout the event. Participants will receive access to these resources to support the implementation of wildland fire resilient construction measures.
New Seismic Hazard Mapping for Metro Vancouver: Opportunities for Uptake and Use in the Built Environment	1:00 pm - 2:30 pm (Minoru A/B)	This session will provide a short overview of the new seismic hazard maps that have been produced over the past decade for Metro Vancouver. It will then provide an overview of the associated EGBC Professional Practice Guidelines. It will conclude with an overview of the potential opportunities and challenges associated with the uptake and use of the maps and associated geodata. Are you interested in contributing to building resilience in this beautiful region? This session is for you to better understand how new and improved seismic hazard information can be integrated into your role as a building official or business planning as a builder.
CSA F280 HVAC Requirements for Part 9 Buildings	1:00 pm - 2:30 pm (Minoru D)	This session will discuss the requirements for CSA F280 heating and cooling load calculations required by the BCBC under article 9.33.5.1. The new requirement for maintaining 26°C outlined in sentence 9.33.3.1. 2) of the BCBC will be covered, including Todd's interpretation of the appropriate modeling techniques and common errors that are found in heat loss & heat gain calculations. Sizing heating and cooling equipment according to CSA F280 standards is the foundation of proper HVAC design and ensures that the correct capacity mechanical systems are installed.

## Session Summary – Day 1 (continued)

Session	Time	Summary
An Archaeologist's Insight into Regulatory Archaeology and the Heritage Conservation Act Transformation Project for Home Builders and Property Owners	3:00 pm - 4:30 pm (Minoru A/B)	<p>British Columbia's burst of government initiatives to address the housing crisis, such as the BC Builds Program, have contributed to a rapid increase in residential development across the province. As with all development projects, builders and homeowners must work through a series of permits to conduct building activities, including the Heritage Conservation Act (HCA). With little to no previous knowledge of the act, long permitting times, a shortage of consulting archaeologists, a web of additional building-related permits, and managing consultation required for HCA permit applications, obtaining an HCA permit for development can be a daunting task for any developer and homeowner. In addition, the Heritage Conservation Act Transformation Project has left many people wondering how prospective changes to the HCA may impact their projects in the future. If you are in a position where you may need to navigate the HCA on one of your projects, please join Emily Wilkerson, MA, RPCA, professional archaeologist, to learn more about how regulatory archaeology intersects with residential development in British Columbia, and to learn more about the Heritage Conservation Act Transformation Project.</p> <p>This talk will cover:</p> <ul style="list-style-type: none"> <li>• An introduction to the Heritage Conservation Act (HCA) and permitting processes with the Archaeology Branch.</li> <li>• Strategies for managing archaeology on projects.</li> <li>• The Archaeology Branch modernization program, including dedicated staff for residential development projects.</li> <li>• The Heritage Conservation Act Transformation Project; what it is, why it is happening, the current state of the project, how it is already influencing the approach to archaeology on projects, and what it may mean for the future of the HCA.</li> </ul>
Welcome to the World of Heat Pumps	3:00 pm - 4:30 pm (Minoru D)	<p>This 1.5-hour session will introduce attendees to the various types of HVAC heat pumps available in Canada, from air-source to ground-source models. The presentation will explore key performance metrics, including SEER (Seasonal Energy Efficiency Ratio), HSPF (Heating Seasonal Performance Factor), and COP (Coefficient of Performance). Designed to increase understanding of these technologies, the session will highlight their applications and potential to reduce carbon emissions, contributing to the fight against climate change.</p>

## Session Summary – Day 2

Session	Time	Summary
BC Building Code 2024 Provisions for Adaptable Dwelling Units	8:30 am - 10:00 am (Minoru A/B)	This presentation will offer a comprehensive view of the 2024 BC Building Code provisions for buildings required to include adaptable dwelling units, illustrated through examples. Participants will gain an understanding of the requirements, the Building Code’s acceptable solutions and practical methods to achieve compliance.
Single Exit Stair Buildings	10:30 am - 12:00 pm (Minoru A/B)	The session will focus on a building code change request to allow for a single exit stair in smaller multi-unit residential buildings of up to three storeys in Part 9, and six storeys in Part 3 of the National Building Code of Canada with appropriate fire and life safety requirements. The code change request was developed by LGA Architectural Partners and David Hine Engineering Inc and is a recommendation of the Task Force on Housing and Climate, the 2023 National Housing Accord, the 2022 Ontario Housing Affordability Task Force and the City of Toronto’s 2010 Midrise Performance Standards.
Explaining the National Code Development Process	1:00 pm - 2:30 pm (Minoru A/B)	Ever wonder how changes to the BC Building Code are developed? The BC Codes are derived from the National Model Codes. The National Code development system has undergone a significant change under a new governance model, with new committees set to launch in 2025. This presentation will provide an overview of how and why the system has evolved and explain how you can get involved and shape the future of the codes.
Avoiding Building Code Missteps with Small Scale Multi-Unit Housing	1:00 pm - 2:30 pm (Minoru D)	With new zoning provisions in place across BC to enable Small Scale Multi-Unit (SSMU) Housing, a new world of building code regulations is being opened that hasn’t been traditionally used in the single-family home builder market. Some of the building code regulations will vary substantially depending on how your SSMU is designed. What may be a simple design choice could result in significant increases to the fire protection requirements under the BC Building Code, resulting in increased construction costs and ongoing maintenance. Attending this session will equip you with an understanding of some of the building code implications of SSMU, and how to potentially avoid costly increases to your project.

## Session Summary – Day 2 (continued)

Session	Time	Summary
Mechanical Permit and HVAC Inspection Processes for Part 9 Buildings	3:00 pm - 4:30 pm (Minoru A/B)	This session will discuss the permitting requirements of HVAC systems in Part 9 buildings. The changes to the BCBC 2024 and the adoption of the energy step code have highlighted inconsistencies in the inspection and permitting process of residential HVAC systems. The session will also outline a professional approach to designing and inspecting HVAC systems that lead to consistent, reliable results which protect the consumer and help meet Canada's energy efficiency goals.
Leadership in Communication	3:00 pm - 4:30 pm (Minoru D)	<p>We usually deal with communication challenges in one of two ways... Either we want to run away, or we come charging in. Usually, neither of these choices works long term.</p> <p>There is a third, much more effective way. This workshop will give you 4 completely counter-intuitive strategies for successfully managing difficult situations.</p> <p>By the end of this session, you will be able to know how to identify resistant behaviour in yourself and others; have a greater understanding of what the physiological responses to emotional challenges look and feel like; be able to identify your personal strategies for managing your own defensiveness as well as others'; and recognize when to push and when to back off to get your needs met. You will also gain insight into how others perceive you and your motives.</p>