Tuesday, September 18, 2018
BuildGreen Atlantic Conference & Tradeshow

7:30 am – 8:00 am  Registration

8:00 am – 9:30 am  Breakfast & Conference Welcome
Keynote Address
Zero Carbon Design and Anticipated Occupancy Considerations
Tony Cupido, Mohawk College
The Joyce Centre for Partnership and Innovation (JCPI) is the first net-zero institutional building in Ontario and is one of the CaGBC’s 16 Zero Carbon Building pilot projects. Recently, the JCPI was awarded the ZCB – Design Certification. The JCPI will be entirely dedicated to the student experience and expand experiential learning at Mohawk. Students will enjoy the opportunity to learn through capstone projects, industry placements, co-op work terms, applied R&D and team competitions. This presentation will highlight design outcomes related to energy and building systems as well as a focus on student interaction and related occupancy considerations.

9:30 am – 10:20 am  Choose Session 1A, 1B or 1C
Session 1A
Panel – Affordable Housing – Strategy, Research and Practical Application
Rene Babin, CMHC
Raouf Chehaiber, CMHC
Ross Cantwell, NS Housing Trust
This session will provide an overview of the National Housing Strategy that promotes diversity and inclusion and is a catalyst for more sustainable, assessible, mixed income and mixed-use communities. Research on energy efficient building performance that can be included in affordable housing projects will be shared. An update and case study on plans for a mixed-use affordable housing project planned by the NS Housing Trust will also be discussed.

Session 1B
Advanced Wood Framing for Green Buildings
Andrea Doncaster, Andrea Doncaster Engineering Ltd.
This session will describe what Advanced Wood Framing is, explains how it is beneficial for efficient material use and thermal efficiency, and details some of the techniques involved in advanced framing. Other recommendations for more sustainable wood frame construction and how Advanced Framing can be used to obtain LEED credits in LEED Canada for Home will also be discussed.

Session 1C
Can Existing Buildings Still be Carbon Neutral
Cait Dobbin & Charline Cormier, Stantec
A discussion on what it takes to transform existing buildings from the 60’s 70’s 80’s and 90’s in to lean clean Carbon Neutral machines. Further we will look at several important starting points and intermittent targets that help guide us along the path to carbon neutrality but fall short of the target.

10:20 am – 11:10 am  Choose Session 2A, 2B or 2C
Session 2A

**GBCI Canada: Accelerating and Scaling Up Market Transformation**  
*Thomas Mueller, CaGBC & GBCI-CA*

In this session you will gain an understanding of how GBCI Canada’s programs will enable the Canadian green building industry to validate better building performance, operational savings, and human health benefits. Thomas will explain how LEED v4, Parksmart, TRUE, Investor Confidence Project (ICP), ARC, SITES, PEER, WELL and GRESB can contribute to the acceleration of green building market transformation and mitigation of climate change in Canada and around the world.

Session 2B

**Heating System Selection to Reduce Carbon Emissions in Nova Scotia**  
*Aaron Smith, M&R Engineering*

The presentation will compare the lifecycle carbon emissions of various heating sources over a 30-year period (2020 – 2050). Anticipated technology improvements and electricity grid changes will be taken into account in an attempt to provide input on when it may be best for buildings to use an electricity-based heating system, e.g. now or in 15 years during an equipment replacement.

Session 2C

**Sustainable Transportation Best Practices for Green Buildings**  
*Rochelle Owen & Scott McPhee, Dalhousie University*

This presentation will cover best practices for thinking about and designing sustainable transportation options in building design. The Office has created a Manual with standards, management protocol and procurement guidance that can be used by others for assisting in designing, procuring and managing spaces and programs.

11:10 am – 11:30 pm  
**Break**

11:30 pm – 12:20 pm  
**Choose Session 3A, 3B or 3C**

Session 3A

**Using Financing Solutions to Make Your Building Greener.**  
*Rob Mabe, CWB Maximum Financial*

This session will discuss how building owners can use financing solutions to make their buildings greener. We will explore financial structures that can enable the immediate implementation of building efficiency measures while preserving owner’s capital for other investment alternatives. The session will focus in how a financial institution can work with efficiency engineers to develop financial solutions, that not only preserve capital but create positive cashflow after debt service. Often efficiency measures don’t progress past the planning stage due to a lack of capital or insufficient operating budget. This session will explore options to overcome these hurdles.

Session 3B

**UNB’s Kinesiology Building – The journey to a WELL Certified Building**  
*Craig Hickey & Dr. Wayne Albert, University of New Brunswick*

The University of New Brunswick has a new home for its Faculty of Kinesiology. This presentation will review the project from conceptual design through to construction of a 60,000 square foot building on a challenging site with a tight construction schedule. The building is
targeting LEED Gold and WELL Silver certifications. The presentation will discuss the opportunities and challenges that were experienced to meet the WELL certification, which will be one of the first buildings certified by IWBI under their educational pilot program. The presentation will also discuss the project from the occupant’s perspective, the reason to pursue WELL, the benefits and the ongoing engagement of stakeholders post construction.

Session 3C
Improving Energy Efficiency through Building Recommissioning and New Construction Upgrades
Donald Dodge & Kristine Baillieul, Efficiency Nova Scotia
An overview of two of Efficiency Nova Scotia’s services, directed at the commercial segment, while highlighting successful projects that have gone through these services. Designed to help building developers, owners and property management companies not only reduce their electric energy use, but also create a more comfortable place for their tenants to work in, while keeping operating and maintenance costs as low as possible.

12:20 pm – 3:00 pm   Lunch on the Tradeshow Floor

3:00 pm – 4:30 pm   Closing Plenary
Energy Benchmarking - Building a Voluntary Program in Nova Scotia
James Campbell, NRCan
Mike Melross, City of Edmonton
Patricia Duncan, NS DTIR
Moderator: Donald Dodge, Efficiency Nova Scotia
Building energy benchmarking, disclosure, and labelling programs will help us transition to a low carbon, sustainable energy future by making building energy performance more accessible. Energy benchmarking programs compile and compare building energy consumption across building stock in order to benchmark building energy performance, facilitate energy efficiency improvements and greenhouse gas reductions in existing buildings. The panel will outline the broad objectives of a national benchmarking strategy (NRCan) discuss building energy benchmarking successes to date (NS DTIR) and look at a municipal example of a voluntary building energy benchmarking program (Edmonton) and plans underway to develop a program for Nova Scotia.

4:30 pm – 5:30 pm   Closing Wine & Cheese Reception
CaGBC Atlantic Chapter Leadership & Green Building Awards Ceremony