

[View as Webpage](#)

[REGISTER HERE](#)



Advanced Building Science Workshop

Featuring High Performance Wall Systems & Cold Air Source Heat Pump Systems

[Delivered by:](#)



- AND -

CanmetENERGY

Leadership in ecoInnovation

[At This Forum You Will:](#)



- Learn how Atlantic builders are using Local Energy Efficiency Partnerships (LEEP) to challenge manufacturers to better meet their needs
- See best practice examples and construction costs for a case study home for two wall systems and two heat pump systems (each from competing manufacturers)
- Learn factors to consider when selecting and designing wall systems from local experts
- Learn about mechanical system sizing and new cost effective duct distribution approaches
- Get an overview of recent developments with Net Zero construction and other forms of high performance housing nationally and in our region
- Work with your peers to judge and consider energy performance improvements for your next build.

Date & Time
February 21, 2020
11:00 AM - 5:00 PM

Location
Fredericton Inn
Fredericton, NB

Cost
Students \$25 + HST
CHBA-NB Members \$325 + HST
Non-Members \$350 + HST

Registration Deadline

February 14, 2020

*Register more than 2 people
from your company and receive
a \$50 discount per additional
registrant*

(Prices Include Lunch & Refreshments)

Cancellation: All cancellations must be received prior to the registration deadline in order to receive a refund. All cancellations received after the deadline will not be eligible for a refund.

REGISTER HERE

Schedule of Events

11:00 AM Welcome Message Claudia Simmonds, CHBA-NB

High Performance Housing

11:15AM Costing Tool Summary Lauren Lipka, NB Power

High Performance Wall Systems

11:30AM Design Factors
Technical Presentation Lauren Lipka, NB Power

LUNCH (PROVIDED)

1:00 PM Rockwool Wall System Vincent Chiu, Rockwool

1:55 PM Dupont Wall System Brian Chisholm, Dupont

Cold Climate Air Source Heat Pump (HP) Systems

2:45 PM HP Sizing Best Practices
And Case Study Dara Bowser, Bowser Technical

BREAK

3:55 PM Daikin Heating System Shawn Slaunwhite, Daikin

4:25 PM Mitsubishi Heating System Benoit Thibault, Mitsubishi

4:55 PM Wrap Up And Final
Comments Presentation Claudia Simmonds, CHBA-NB



Presenters



Lauren Lipka
Technical Energy
Advisor
NB Power

Different walls system will be discussed, wall system selection tips and installation guidelines. Lauren will cover relevant transition details (foundation, floor header, roof, window and door openings), construction process and tips. Learn how to avoid condensation in wall cavities, all about air barriers, vapour barriers and the latest details and recommendations for flashing and weather proofing at windows.

Lauren Lipka is a Technical Energy Advisor for NB Power. He is also an Energy Advisor and trainer for Natural Resources Canada's (NRCan) housing programs - the R-2000 Initiative, ENERGY STAR® and the EnerGuide Rating System (ERS) for New and Existing Homes. He has over 25 years of experience in the residential industry in various capacities including real estate appraisal, real estate assessment, energy evaluations on new and existing homes and has worked in Saskatchewan, PEI, Newfoundland & Labrador and New Brunswick. Lauren has specialized in energy efficiency consultations, plan evaluations (Hot2000) and air tightness testing. Lauren is also a CHBA Net Zero Labeling Program Energy Advisor and trainer for the Canadian Home Builders' Association NB and serves on the CHBA Net Zero Technical Committee (TC) and the ENERGY STAR® Technical Advisory Committee (TAC).



Vincent Chiu
Building Science Engineer
ROCKWOOL

ROCKWOOL's presentation will introduce stone wool insulation, how it's made, and its properties. The presentation will delve into how to design and build energy efficient and durable walls using stone wool. It will cover cladding attachment strategies, the construction process, and details for builders when using ROCKWOOL's stone wool products. Additionally, the latest structural deflection testing results will be presented along with easy to follow design tables for designers and builders. Finally, the moisture performance of highly insulated wall assemblies will be presented and discussed.

Vincent is a building engineer and works within ROCKWOOL's building science team. He has a diverse understanding of building systems, having attained both his Bachelor's and Master's degree in Building Engineering at Concordia University in Montreal, where he focused on building diagnostics and rehabilitation, building modeling, wind engineering and building aerodynamics. At ROCKWOOL, he works with architects, engineers, and consultants on designing energy efficient and durable buildings across North America. He also manages building science research projects and engages the architectural community through visits, educational seminars, events, etc.

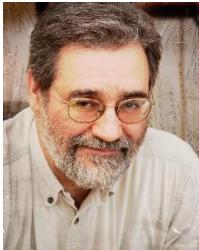




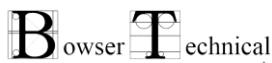
Brian Chisholm
Residential Specialist -
Atlantic Canada
Performance Building
Solutions
DuPont

The majority of new homes built in Atlantic Canada today are not properly protected against the risks of moisture intrusion into the building envelope. As a result, the major cause of deficiency complaints with the Atlantic home warranty organizations is moisture intrusion. Ironically, the fix is quite simple, and easy to apply. Brian will show you a method that will protect the home, and also qualify for a 10 year labour and materials warranty.

Brian has been involved in the construction industry in Canada for over 4 decades. His primary area of expertise is building weatherization and insulation. He has worked with Owens Corning as National Sales and Specification Manager specializing in residential and industrial insulation applications. He has also worked with CertainTeed as Atlantic Regional Sales Manager. For the last 8 years, he has been the Atlantic Residential Specialist for DuPont, conducting training on the proper methodologies to keep moisture from compromising (i.e.. destroying) buildings. Brian been active with local HBA chapters throughout his career, including serving on boards, as well as with the Atlantic Chapter of Construction Specifications Canada, where he served as Chairman for 2 terms.



Dara Bowser
President, Bowser
Technical Inc.



Wondering how to choose a heat pump for your new homes? Learn how to make decisions about Heat Pump systems using the latest information & tools. Learn how central heat pump systems can be installed using advanced ductwork that is space efficient and easy to install.

Dara Bowser has been involved in residential HVAC systems and Energy Use in Buildings as a consultant, manufacturer, researcher and trainer for more than 40 years. Dara is the president of Bowser Technical Inc; a nationally recognized consultancy specializing in HVAC System Performance. Projects including Design, Research, Quality Assurance, and Fault Investigation. Bowser Technical Inc also provides Advanced HVAC Design services for residential projects in across Canada.



Shawn Slaunwhite
Commercial Account
Manager
Daikin



Air source heat pumps, are an evolving technology that has a significant market potential in the Atlantic Provinces. In response to a selection of builder questions on central air heat pumps, Daikin will present their product line for-central heat pumps available in Atlantic builders. The presentation will touch heat pump topics such as commissioning and maintenance, local support, cut-off temperatures, Freeze up protection, sound, energy efficiency, dehumidification, and smart technologies. After attending this presentation, you will have a better understanding of Daikin Central Heat Pump Systems and how you can integrate this technology into you new housing projects.

Shawn has a 10 year track record of growing Daikin Business in Atlantic Canada in both the residential and commercial market segments. He currently champions Daikin products directly in market promoting Daikin's commercial VRV Products to business leaders and key stake holders across Atlantic Canada. His residential experience ranges from design and install of HVAC systems, to selling at the kitchen table.



Air source heat pumps are an evolving technology that have a significant market potential in the Atlantic Provinces. In response to a selection of builder questions on central air heat pumps, Mitsubishi will present their product line for-central heat pumps available for Atlantic builders. The presentation will touch heat pump topics such as commissioning and maintenance, local support, cut-off temperatures, freeze up protection, sound, energy efficiency, dehumidification, and smart technologies. After this presentation, you will have a better understanding of Mitsubishi central heat pump systems and how you can integrate this technology into your new housing projects.

Benoit Thibault
Business Development
Representative
Light Commercial &
Residential
HVAC Division
Mitsubishi Electric Sales
Canada Inc.



Benoit Thibault did an electrician and refrigeration course as well as a building mechanics course, installer for 16 years with residential and commercial equipment such as mini split, electric furnace, oil, rooftop, control, geothermal energy. More than 10 years engineering sales and application in the HVAC distribution sector, 10 years field service and support etc

REGISTER HERE

Thank You Corporate Sponsors!

