



# LEEP Gas Mechanicals Technology Forum

Michelangelo Banquet Centre, Hamilton  
1555 Upper Ottawa St, Hamilton, Ontario  
January 31, 2018 from 8:00 am to 3:30 pm

This forum responds to builder needs expressed at  
CHBA's Technical Research Committee. Local delivery is supported by:



## The Forum is primarily for:

**Builders and renovators:** This Forum will help you deliver greater comfort throughout your more challenging homes during summer heat waves, winter cold spells, and all the part load conditions in-between. It will introduce guides you can use when coordinating work with home designers, window suppliers, HVAC designers, and HVAC contractors. It will help you make sure that you get advice on the items you need from each of these experts. It will also provide you with four case study mechanical solutions for a challenging home.

**Designers and contractors:** This Forum provides new guides you can use to design and specify HVAC systems for today's housing. You can use them to quickly verify design decisions with builders and renovators so you can proceed with your designs expediently. Innovative solutions using different types of gas mechanical systems will also be reviewed.

**Building Officials:** This Forum, approved for 6 credits with the OBOA, will let you consider emerging HVAC solutions for today's and tomorrow's homes, both in terms of equipment and air distribution. It will provide you with guides you can consider as you review installations in today's housing.

**Registration:** <http://www.hhhba.ca/our-association/events-calendar/#id=332&cid=313&wid=901> or call (905) 573-3344.

Administered by Hamilton-Halton's HBA on behalf of surrounding HBAs.

Cost: \$60 + HST & includes lunch (\$40 per additional employee or student). \$20 from your registration will go to your local HBA or OBOA.



## REGISTRATION AND REFRESHMENTS (8:00 - 8:30 am)

Welcome – Suzanne Mammel, Executive Officer, HHHBA

Plan for Today – James Glouchkow, Forum Moderator & LEEP Team Leader

### Panel Session: The heating and cooling needs of today's housing

This panel discussion will focus on:

1. How heating and cooling needs are changing in response to ongoing changes in the housing market including a) a shift in form towards attached, tall, and/or open concept designs b) more energy efficient construction practices, and c) more clients with high comfort expectations and information from the internet.
2. Mapping these changing HVAC needs to ways in which they can be addressed.

Panel – Brandon Campbell (builder) Andy Oding (varied) & Dara Bowser & Jason Rende (HVAC design)

## COFFEE BREAK

### Demonstration: Working with your HVAC designer to enhance comfort and save cost

Learn how to use a new guide to find an HVAC system for your next project that cost effectively increases comfort and efficiency while reducing your risks. Simply providing better information on what you do now may save you \$500 to \$1000 a home.

1. **Builder:** Introduce a case study home that is challenging to heat and cool. (example: tall open concept)
2. **Builder and designer:** Use a new guide together to decide on the type of HVAC system to deploy.
3. **HVAC designer:** Illustrate resulting design.

Demonstration providers – Brandon Campbell (builder) & Dara Bowser (HVAC Designer)

## LUNCH

### Comparing Heating and Cooling Solutions: 4 innovative options for today's homes

The gas utilities wanted to show some efficient high performance systems and selected the following presenting manufacturers through an open two staged process. *Note: presentations closed to other HVAC manufacturers.*

1. **Panel:** Review the elements needed for high performance systems.
  2. **Presentations:** Each will present their best practice solution for the case study home including costing.
- Manufacturers – Philippe Verhas, Dettson; Steve Bagshaw, NTI; Luigi Pulice, Ecovision; & Ramzi Handal, iFlow

Key Takeaways – James Glouchkow, Forum Moderator & LEEP Team Leader

WRAP-UP (by 3:00 pm)  
Manufacturers available until 3:30

## Notes:

**Forum Development:** This forum was developed by Natural Resources Canada's (NRCAN's) LEEP team in partnership with the Canadian Gas Association and member utilities: Atco Gas, Enbridge, SaskENERGY, and Union Gas. NRCAN's LEEP is a builder and renovator driven technology to market initiative delivered by NRCAN's Office of Energy Research and Development. To find out more, web search: [nrcan leep](http://nrcan.leep).

**Contributions:** We would like to thank the Hamilton-Halton Home Building Association for hosting this event, and Union Gas for supporting its delivery. Participant fees cover local HBA administration.