

Panel #1 : 10h00-12h00

## Dynamic building envelopes and BIPV

Chair: Prof. Andreas Athienitis, Concordia University

Co-Chair: Dr. Wayne Chang, Pivotry Consulting

### DISCUSSION FOCUS

What's stopping industry from deploying active envelopes, and how can research address their concerns?

#	PRESENTATIONS
1.1	Market Drivers, Challenges, Forecast and Technology Issues of BIPV (Andrew Kinross, Navigant)
1.2	Innovative Integrated BIPV-T Product Development (Sevag Pogharian, Montreal ZERO)
1.3	On Integrating New Technologies Into Curtain Walls (Jean-Francois Couturier, UNICEL)
1.4	BIPV Applications: Are Residential or Commercial Buildings the Right Application for This Technology? (Anil Parekh, CanmetENERGY, NRCan)
1.5	Experiences from the Ontario Market from a Solar Manufacturer (John Shou, HCDT Group International Ltd.)
1.6	Integrating innovation: BIPV at the Enwave Theatre, Toronto Harbourfront Centre (Livio Nichilo, Internat Energy Solutions Canada)

Panel #2 : 13h00-15h00

## Whole building as a system - design and operation

Chair: Prof. Ismet Ugursal, Dalhousie University

Co-Chair: Dr. Sophie Hosatte, NRCan/CanmetENERGY

### DISCUSSION FOCUS

What challenges and opportunities arise when we integrate NZE-technologies into a complete building? What research gaps should we examine?

#	PRESENTATIONS
2.1	Update on the Engineering Centre for Experimental Learning (ExCEL) at McMaster University (Kelton Friedrich, McMaster University)
2.2	Rapid Evolution of Housing Design (Alex Ferguson, CanmetENERGY, NRCan)
2.3	Solar Decathlon 2013, Team Ontario (Cynthia Cruickshank, Carleton University)
2.4	Cité Verte (Marc Dugré, Regulvar)
2.5	Demand Response by Commercial Buildings (Jocelyn Millette, Hydro Québec)
2.6	Integration of LED Lighting Solutions Into High Performance Buildings (Howard Yaphe, Axis Lighting)
2.7	Lessons Learned from the Equilibrium Housing Initiative (Thomas Green, CMHC)
2.8	Predicting the Performance and Operation of NZE Technologies in Whole Buildings (Martin Kegel, CanmetENERGY, NRCan)

Panel #3 : 15h00-17h00

## Integration of HVAC and solar systems - buildings and communities

Chair: Prof. Stephen Harrison, Queen's University

Co-Chair: Prof. Michel Bernier, Polytechnique Montréal

### DISCUSSION FOCUS

What unique challenges do NZE buildings and communities create for HVAC and solar design, and how can researchers respond to them?

#	PRESENTATIONS
3.1	Assessment of Opportunities of Natural Gas in NZEBs (Adam Neale, NGTC)
3.2	Mechanical System Requirements for NZE-Housing (Jeremy Sager, CanmetENERGY, NRCan)
3.3	Integrated HVAC - Solar System in the TEAM Ontario Decathlon House (Stephen Harrison, Queen's University)
3.4	Towards Net-Zero Energy Communities (Caroline Hachem, Concordia University)
3.5	Design and Integration of Solar Thermal and Heat Pump Technologies in NZEBs (Justin Tamasauskas, CanmetENERGY, NRCan)
3.6	Drake Landing Solar Community Thermal Storage (Doug McClenahan, CanmetENERGY, NRCan)
3.7	City of Saskatoon Municipal Solar Thermal Project (Chris Richards, City of Saskatoon)



**NSERC SMART NET-ZERO ENERGY  
BUILDINGS STRATEGIC RESEARCH NETWORK**

**RÉSEAU DE RECHERCHE STRATÉGIQUE DU CRSNG  
SUR LES BÂTIMENTS INTELLIGENTS À CONSOMMATION  
ÉNERGÉTIQUE NETTE ZÉRO**

# 2<sup>ND</sup> ANNUAL GENERAL MEETING

Stakeholders workshop on defining solutions  
towards smart net-zero energy buildings  
Friday May 24<sup>th</sup>, 2013 - Ottawa Marriot Hotel

## For more information:

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