



NSERC Smart Net-Zero Energy
Buildings Strategic Research Network
Réseau de recherche stratégique du CRSNG
sur les bâtiments intelligents à consommation
énergétique nette zéro



Agenda

1st Annual General Meeting

The Westin Nova Scotian Hotel
1181 Hollis Street, Halifax, Nova Scotia

April 30 - May 1, 2012

SNEBRN Research Streams

Theme 1	Integrated renewable energy systems and heating/cooling systems for buildings
Theme 2	Dynamic building envelope systems and passive solar concepts
Theme 3	Mid-to long-term thermal storage for buildings and communities
Theme 4	Smart building operating strategies
Theme 5	Technology transfer, design tools and input to national policy

Day 1: MONDAY, April 30, 2012

0730 - 0900	Registration & Continental Breakfast	
0900 - 1000	Opening Ceremonies Welcoming Remarks, Network Secretariat Report	Dr. A. Athienitis, Scientific Director Josef Ayoub, Network Manager
1000 - 1700	Projects Update & Reporting (15 min. presentation + 5 min. Qs & As)	
1000 - 1020	1.1 Innovative Concepts for Space Heating and Cooling	Dr. Stephen Harrison
1020 - 1040	1.2 Solar Combined Energy Systems for Space and DHW Heating	Dr. Ian Beausoleil-Morrison
1040 - 1100	Morning Break	
1100 - 1120	1.3 Novel HVAC Components	Dr. Michael Collins
1120 - 1140	2.1 Net-zero energy pre-engineered housing envelope options	Dr. Paul Fazio
1140 - 1200	2.2 Advanced curtain walls and fenestration systems	Dr. David Naylor
1200 - 1220	2.3 Development, integration and optimization of active (BIPV/T) and passive systems as enabling technologies for NZEBs	Dr. Andreas Athienitis
1230 - 1345	Lunch Break	
1345 - 1405	3.1 Borehole thermal energy storage	Dr. Michel Bernier
1405 - 1425	3.2 Advanced large capacity thermal energy storage	Dr. Marilyn Lightstone
1425 - 1445	3.3 Community Level Thermal Energy Storage	Dr. Marc Rosen
1445 - 1505	4.1 Smart building operating strategies for net zero energy homes and small buildings	Dr. Andreas Athienitis
1505 - 1525	Afternoon Break	
1525 - 1545	4.2 Ongoing commissioning for commercial buildings	Dr. Radu Zmeureanu
1545 - 1605	4.3 Smart operating strategies for net-zero energy solar communities	Dr. Alan Fung
1605 - 1625	5.1 Identification & development of feasible approaches & policies to achieve and promote NZEB Homes & communities	Dr. Ismet Ugursal
1625 - 1645	5.2 Design of new solar communities	Dr. Chris Kennedy
1900 - 2200	Evening Social Event/Dinner at da Maurizio Restaurant, The Brewery, 1496 Lower Water Street.	

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END OF DAY 1

TUESDAY, May 1, 2012

0730 - 0830	Continental Breakfast (Atlantic Ballroom)			
ANNUAL GENERAL MEETING (Atlantic Ballroom)		SNEBRN WORKSHOPS (Dalhousie University)		
0830	Session 1: Planning for 2 nd Annual General Meeting (Discussion led by Andreas Athienitis/Josef Ayoub) Formation of education committee and planning of workshops			0830
0945	Session 2: Case Studies and Demonstration Projects 1) Varennes library (A. Athienitis, Concordia U. and M. Roy) 2) Net-zero community/"Okotoks" in Halifax (M. Bernier, EPM, & C. Hachem, Concordia U)	Building Energy Modeling (IBPSA/SNEBRN)	Net-Zero Energy House Design	0900
1030	Morning Break		Lunch	1200
1045	3) 2013 Solar Decathlon Competition - Team Ontario (Queen's U/Carleton U/Algonquin College) (Cynthia Cruickshank, Carleton U) 4) Net-Zero Energy House developments at McMaster University (Kelton Friedrich, McMaster U) 5) Next generation R2000 (Gary Sharp, the CHBA National R2000 Program Coordinator)		Geothermal Boreholes	1300
1230	Lunch			
1345	Collaborative Network Meetings			
				1700
				1730

END OF MEETING AND WORKSHOPS