Wednesday		*Session VIII*	
	Practices A **Whole Building Assessments** Chair: George Crow	**Principles A** **Water Management/Walls I** Chair: Maria Spinu	**Principles B** **Attics/Roofs I** Chair: Gerry Miller
8:30 a.m. to 10:00 a.m.	165 – Yurij Matrosov Increasing Thermal Performance And Energy Efficiency Of Buildings In Russia: Problems And Solutions	154 Joseph Piñon Predicting The Effect Of Wall Cladding Ventilation On Condensation Due To Sun-Driven Moisture: Comparison Of Hygrothermal Simulation With Laboratory Testing	19 – William Miller Natural Convection Heat Transfer In Roofs With Above-Sheathing Ventilation
	196 – Peter Coats Modeling And Design Approach For Treatment Of Highly Thermally Conductive Architectural Elements In High Performance Buildings In Mixed Climates	163 – Constance Thivierge Large-Scale Experimental Investigation Of Wood-Frame Walls Exposed To Simulated Rain Penetration In Cold Climate	36 – Ed Reeves Field Performance Of An Unvented Cathedral Ceiling (UCC) In Vancouver
		164 – Jan Carmeliet Cyclic Temperature Gradient Driven Moisture Transport In Walls With Wetted Masonry Cladding	179/180 – Cristian Ciucasu Ventilated Cathedral Attics In Summer Conditions - Simulation Models
		Session IX	
	Practices A **Environment** Chair: Bill Rose	**Principles A** **Water Management/Walls II** Chair: Dominique Derome	**Principles B** **Attics/Roofs II** Chair: Sam Yuan
10:30 a.m. to 12:00	238 – Mark Lucuik Estimating The Environmental Consequences Of Building Envelope Failures	198 – Fitsum Tariku Simulation Of Wind-Driven Rain Penetration Effects On The Performance Of A Stucco-Clad Wall	220 – John Grunewald Modeling Of Air Convection Effects On Hygrothermal Performance Of Vented Roofs
	15 – Lew Pratsch Zero Peak Communities Electric Utility Benefits	204 – Neil Leslie Evaluation Of Water-Resistive Barrier Performance In Stucco Walls	18 – Scott Kriner Designing Low-Emittance Low-Slope Roofs That Comply With California Title 24 Requirements
	3 – David Tarpy 70 Million Years Of Building Thermal Envelope Experience: Building Science Lessons From The Honeybee	224 – Marcus Jablonka Hygro-Thermal Performance Testing Of Wall Assemblies Employing A 3-Dimensional Weather Resistive Barrier And Drainage Membrane	21 – André Desjarlais Modeling The Thermal Performance Of Ballasted Roof Systems
			49 – David Yarbrough Thermal Performance Of Gas-Filled Panels With Reflective Surfaces Installed In An Attic

Wednesday			
	Session X		
	Practices A **Roofs To Foundations** Chair: Collin Olson	**Principles A** **Water Management/Walls III** Chair: Reed Larson	**Principles B** **Material Properties I** Chair: David Yarbrough
1:30 p.m. to 3:00 p.m.	96 – Michael Lubliner Crawlspace Design In Marine And Cold Climates	12 – Xing Shi Ventilation Drying In Enclosure Walls With Vinyl Cladding	23 – Rachel Becker Air Permeability And Thermal Performance Of Concrete Block Wall Sections
	100 – John Broniek A Cathedralized Attic In A Hot Humid Climate - Is It Worth Conditioning?	51 – Graham Finch Ventilated Wall Claddings: Review, Field Performance, And Hygrothermal Modeling	121 – Wahid Maref Hygrothermal Properties Of Exterior Claddings, Sheathing Boards, Membranes And Insulation Materials For Building Envelope Design
	153 – Jeff Alcott Development Of A Robust Termite-Resistant Foam Insulation	130 – Hua Ge Investigation Of Ventilation Drying Of Rainscreen Walls In The Coastal Climate Of British Columbia	257 – Gregor Scheffler Determination of instantaneous moisture content and moisture potential profiles
	Session XI		
	Practices A **Building Codes** Chair: Jonathan Humble	**Principles A** **Water Management/Walls IV** Chair: Richard Duncan	**Principles B** **Material Properties II** Chair: Andreas Holm
3:00 p.m. to 5:00 p.m.	30 – Martha VanGeem Modeling Energy Performance Of Concrete Buildings For Leed-Ncv2.2, Energy And Atmosphere Credit 1	209 – Francis Babineau Prediction Of Insulation Drying In Building Assemblies Under Construction	167 - Wolfgang Zillig Mesoscopic Modeling Of Vapor Transport In Wood In Tangential And Radial Direction
	94 – Tony Woods Improving The Building Envelope To Meet The Challenges Of New Research And Regulation	210 – Mikael Salonvaara Air Cavity Behind Claddings – What Have We Learned?	168 – Dan Gaffner The Moment Method For Measuring Moisture Diffusivity In Porous Building Materials
		122 – John Straube Modeled And Measured Drainage, Storage, And Drying Behind Cladding Systems	184 – Samuel Glass Measurements Of Moisture Transport In Wood-Based Materials Under Isothermal And Nonisothermal Conditions
		148 – Stanley Gatland The Hygrothermal Performance Of Wood Framed Wall Systems Using A Relative Humidity Dependent Vapor Retarder In The Pacific Northwest	