Monday

8:30 a.m. to 10:00 — **Plenary**

Session I

	Practices A **Building Retrofit / Whole Building II** Chair: Marcus Jablonka	*Principles B* **Moisture Transfer** Chair: Carl-Eric Hagentoft Co-chair: Mikael Salonvaara
10:30 a.m. to 12:00	**89** – Martin Morelli Internal Insulation of Masonry Walls with Wooden Floor Beams in Northern Humid Climate	**11** – Hans Janssen Numerical Modeling of Dynamic Effects in Porous Media Flow
	119 – Charles Carll Case Study: Performance of a House Built on a Treated Wood Foundation System in a Cold Climate	**161** – Yang Li Numerical Modeling of Hygrothermal Response in a Full-Scale Experimental Room and Through Envelope
	124 – Mark Lawton Building Science in the Restoration of a Heritage Building	**12** – Paul Steskens Modeling Local Hygrothermal Interactions
	172 – Johan Stein Concerns When Improving the Energy Efficiency of 1960's and 70's Swedish Multi-family Dwellings	**144** – Marcin Pazera Impact of Weather on Predicting Drying Characteristics of Spray-Applied Cellulose Insulation

Session II

	Practices A **Roofing** Chair: Mike Ennis	*Principles B* **Prediction of Moisture Degradation** Chair: Maref Wahid
1:30 p.m. to 3:00 p.m.	**37** – Steve Ray Potential Energy Savings of Various Roof Technologies	**104** – Tuomo Ojanen Mould Growth Modeling of Building Structures Using Sensitivity Classes of Materials
	64 – William (Bill) Miller A Compilation of Home Energy Assessments for Cool Roofs, Above-Sheathing Ventilation, Radiant Barriers and Other Attic Strategies	**152** – Pedro Otaduy Corrosion Prediction in Buildings Based on Simulation of Temporal Distribution of Humidity and Temperatures and the International Standard ISO-9223
	102 – Carl-Eric Hagentoft Mold Growth Control in Cold Attics through Adaptive Ventilation. Validation by Field Measurements	**203** – Christopher Schumacher Assessing the Freeze-thaw Resistance of Clay Brick for Interior Insulation Retrofit Projects
	107 – Pär Johansson Hygrothermal Conditions in Ventilated Cathedral Ceilings. Influences on Roof Ventilation and Emissivity – Field Study and Analysis	**229** – Klaus Sedlbauer Comparative Evaluation of the Predictions of Two Established Mould Growth Models

Monday		
	Session III	
	Practices A **Indoor Environment** Chair: Rick Peters Co-chair: Patrick Huelman	***Principles B*** **Air & Moisture Control** Chair: Hugo Hens Co-chair: Peter Adams
3:30 p.m. **to** **5:00 p.m.**	**10** – Jørgen Erik Christensen Hygrothermal Performance Optimisation of a Museum Storage Building	**44** – Christian Bludau Hygrothermal Performance of Flat Roofs with Construction Moisture
	75 – Lois Arena Monitoring of Internal Moisture Loads in Residential Buildings - Research Findings in 3 Different Climate Zones	**170** – Christoph Buxbaum Hygric Performance of Shaded and Unshaded Highly Insulated Light Weight Low-Sloped Roofs
	85 – Henk Schellen A Sound Indoor Climate for a Museum in a Monumental Building	**57** – Eva Møller A Simplified Method Using Compressed Air to Determine Air Leakage
	140 – William (Bill) Rose Temperature and Humidity Measurements in 71 Homes Participating in an IAQ Improvement Program	**91** – Jelle Langmans Feasibility of Using Wind Barriers as Air Barriers in Wood Frame Construction