

## Wednesday

### *Session VIII*

	<i>Practices A</i> <b>Air Tightness I</b> Chair: Laverne Dagleish	<i>Principles B</i> <b>Thermal Modeling</b> Chair: Tuomo Ojanen
<b>8:30 a.m. to 10:00</b>	<p><b>80</b> – Doug Bibee Air Sealing Existing Homes With Foam-In-A-Can Rivals Energy Cost Benefits of CFLs</p> <p><b>92</b> – Hans Boye Skogstad Sealing of Window and Door Joints in Timber Frame Buildings, Water Tightness</p> <p><b>55</b> – Brian Hubbs Moisture Transport by Osmotic Flow Through Waterproofing Membranes—Towards the Development of Osmosis Resistant Membranes</p>	<p><b>21</b> – Hamed Saber 3D Hygrothermal Model for Predicting the Thermal Resistances of Spray Polyurethane Foam Wall Assemblies</p> <p><b>79</b> – Roberta Grifoni Thermal Comfort and Microclimates in Open Spaces</p> <p><b>173</b> – Arild Gustavsen Experimental and Numerical Examination of the Thermal Transmittance of High Performance Window Frames</p>

### *Session IX*

	<i>Practices A</i> <b>Air Tightness II</b> Chair: Wagdy Anis	<i>Principles B</i> <b>Foundations</b> Chair: Bill Rose
<b>10:30 a.m. to 12:00</b>	<p><b>153</b> – Paul Francisco Development of a Model of Cycling Unvented Fireplace Use</p> <p><b>190</b> – Paula S. M. Wahlgren Methods and Materials for an Airtight Building</p> <p><b>132</b> – Bjørn Petter Jelle The High Performance Thermal Building Insulation Materials and Solutions of Tomorrow</p>	<p><b>29</b> – Charles Boardman Estimating Foundation Water Vapor Release Using a Simple Moisture Balance and AIM-2: Case Study of a Contemporary Wood-frame House</p> <p><b>46</b> – Sam Glass Moisture Performance of Insulated, Raised, Wood-frame Floors: A Study of Twelve Houses in Southern Louisiana</p> <p><b>174</b> – David Hales Vented and Conditioned Crawlspace Performance in Marine and Cold Climates of the Pacific Northwest</p>

**Wednesday**

**Session X**

<b>1:30 p.m. to 3:00 p.m.</b>	<b>Practices A</b> <b>Wall Moisture</b> Chair: Lucas Hamilton	<b>Principles B</b> <b>Whole Building Assessment</b> Chair: Carsten Rode Co-Chair: Therese Stovall
	<b>15</b> – Hugo Hens Wind-driven Rain: From Theory to Reality	<b>22</b> – Érika Mata Retrofitting Measures for Energy Savings in the Swedish Residential Building Stock – Assessing Methodology
	<b>200</b> – Kohta Ueno Residential Exterior Wall Superinsulation Retrofit Details and Analysis	<b>137</b> – Robert Bombino Reconsidering the Approach Towards Determining Overall Building Enclosure Thermal Performance for Code Compliance
	<b>178</b> – Fitsum Tariku Modeling of the Hygrothermal Responses of a Sheathing Board in a Prefabricated Wall System and Comparison With Experimental Result	<b>142</b> – Michael Aoki-Kramer Monitoring of Historic Structures for Whole Building Improvements

**Session XI**

<b>3:30 p.m. to 5:00 p.m.</b>	<b>Practices A</b> <b>Fenestration</b> Chair: Marc LaFrance	<b>Principles B</b> <b>Materials Property Testing</b> Chair: Achilles Karagiozis
	<b>31</b> – Georg-Wilhelm Mainka Influence of New External Protective Glazing on Historic Painted Window-Panes in Medieval Churches	<b>23</b> – Gregor Scheffler Introduction of a Drying Coefficient for Building Materials
	<b>160</b> – Fiona Aldous Developing an Exterior Enclosure Commissioning Plan	<b>26</b> – Andrea Binder Test Method to Quantify the Wicking Properties of Insulation Materials Designed to Prevent Interstitial Condensation
	<b>130</b> – Anik Teasdale St-Hilaire Innovative Structurally Glazed Curtain Wall at the New Vancouver Convention Centre: Design and Construction Challenges	<b>175</b> – Phalguni Mukhopadhyaya Accelerated Aging Performance Evaluation of ‘Smart Vapor Retarder’