



IBPSA - Canada eSim 2010

www.eSim.ca

IBPSA-Canada's biennial conference, eSim, brings together professionals, academics and students interested in building performance simulation issues and applications. The 2010 conference is hosted by Manitoba Hydro, in collaboration with the National Research Council of Canada. It will be held in Winnipeg, Canada on May 19 and 20, 2010 (pre-conference and post-conference workshops on May 18 and 21, 2010).

Conference Themes

- Recent developments for modelling the physical processes relevant to buildings (thermal, air flow, moisture, lighting)
- Algorithms for modelling conventional and innovative HVAC systems
- Methods for modelling the whole-building performance, including integrated resource management, renewable energy sources and combined heat, cool and power generation
- Building simulation software development and quality control approaches
- Use of building simulation tools in code compliance and incentive programs
- Moving simulation into practice. Case studies of innovative simulation approaches
- Validation of building simulation software
- User interface and software interoperability issues
- Architectural and engineering data visualization and animation
- Optimization approaches in building design

Conference Proceedings

The conference program consists of parallel technical sessions, two keynote speakers, a software demo session, and a panel discussion. The technical sessions make up the bulk of the conference program. These technical sessions are a collection of papers submitted and selected by the conference scientific committee deemed to be of sufficiently high caliber and directly related to the eSim 2010 themes. The main conference will be accompanied by pre and post conference workshops.

Conference Venue

The newly constructed Manitoba Hydro Place located in downtown Winnipeg will play host to eSim 2010. The building itself is touted as one of the most energy efficient buildings of its kind in North America and itself a model of the benefits of building simulation (www.hydro.mb.ca/corporate/mhplace/quick_facts_building.shtml).

Conference Chair

Devin Evenson
Manitoba Hydro
devenson@hydro.mb.ca

Chair of the Scientific Committee

Dr. Iain Macdonald
National Research Council Canada
iain.macdonald@nrc-cnrc.gc.ca