

BS2011: Wednesday 16th November

SESSION	ENDEAVOUR 1 ROOM	Presenter	ENDEAVOUR 2 ROOM	Presenter	ENDEAVOUR 3 ROOM	Presenter	SIRIUS ROOM	Presenter	LA PEROUSE 1 ROOM	Presenter	DISCOVERY ROOM	Presenter	LA PEROUSE 2 ROOM	Presenter
	What Simulation Can Do in Design Process VI		Daylighting Simulation		Advances In Building Physics I		Simulation in Regulatory Processes I		Human Aspects in Simulation III		Limitations of Simulations in Practice IV		Validation, Calibration and Testing V	
	Session Chair: Patrick Arnold		Session Chair: Dariusz Heim		Session Chair: Paul Bannister		Session Chair: Edna Shaviv		Session Chair: Kwok Wai Tham		Session Chair: Ravi Srinivasan		Session Chair: Chip Barnaby	
1020-1040	1367: Exploring rapid prototyping techniques for validating numerical models of naturally ventilated buildings	Yang, Tong	1494: Defining parameters for a quality daylight simulation validation dataset	Osborne, Jacob Zachary Steven	1204: Numerical investigation of heat and mass transfer in flax and hemp concrete walls	Mora, Laurent	1530: An initial parametric evaluation of the impact of the Energy Conservation Building Code of India on Commercial Office Buildings	Manu, Sanyogita	1230: Significance of both internal and external boundary conditions on human thermal comfort and sensation	Tuomaala, Pekka	1317: Building Energy Modeling Innovation Summit: Purpose and outcomes	Tupper, Kendra	1361: Towards urban-scale flow simulations using the lattice Boltzmann method	Obrecht, Christian
1040-1100	1331: Analytical assessment of thermal performance of a ventilated glazed facade system	Dagnall, Michael Brian	1701: DIVA-for-Rhino 2.0: Environmental parametric modeling in Rhinoceros/Grasshopper using Radiance, Daysim and EnergyPlus	Jakubiec, John Alstan	1472: Building passive cooling through unsaturated capacitive porous medium on roof	Mendes, Nathan	1750: Agent-based modelling of commercial building stocks for policy support	Zhao, Fei	1304: Factors affecting 'end of day' window position in non-air-conditioned office buildings	Wei, Shen	1565: Measured occupancy levels in 19 Swedish apartment buildings	Bagge, Hans	1130: Simulation of heat and moisture induced stress and strain of historic building materials	Williams Portal, Natalie Leonor
1100-1120	1200: Influence of control parameters on the system performance of ground coupled heat pump systems: a simulation study	Hoogmartens, Jan	1795: Simulation-based daylighting design education and technical support	Van Den Wymelenberg, Kevin	1553: Spatial distribution of pressure drag acting on rectangular block arrays with various layouts	Sheikh Ahmad Zaki, Shaikh Salim	1355: Capability and deficiency of the simplified model for energy calculation of commercial buildings in the Brazilian regulation	Melo, Ana Paula	1488: Modelling occupants' heating set-point preferences	Andersen, Rune Vinther	1842: Use of simulation for the validation of a predictive control strategy for energy management in buildings	Lamoudi, Mohamed Yacine	1517: Radiance analysis and its application to real time dynamic lighting control	Stravoravdis, Spyridon
1120-1140	1452: Simulation of the behaviour of Phase Change Materials for the improvement of thermal comfort in lightweight buildings	Sicurella, Fabio	1539: Let there be light - Daylight, glare and thermal performance of facades - Case studies	Thomson, Kenneth David	1559: Energy use of buildings at urban scale: A case study of London school buildings	Tian, Wei	1650: Development of computational tool to evaluate the building energy efficiency level according to the Brazilian labeling process	Iwamoto, Gabriel	1543: Effect of envelope properties and thermal adaptation on energy consumption and comfort conditions	Jain, Vaibhav	1268: Experimental study on control-oriented simulation models for building control and energy management	Lu, Yan	1385: Real-Time Compression of Time Series Building Performance Data	Goldstein, Rhys
1140-1200	1194: Daylighting, dynamic thermal modelling and CFD used to influence design process	Padovani, Roberto	1473: Performance of a daylight redirecting glass shading system demonstration in an office building	Appelfeld, David	1648: Dynamic analysis of energy performance of different roof systems during the cooling season	Cappelletti, Francesca	1653: The building simulation as an alternative method in Brazilian energy efficiency labelling of commercial buildings	Riella, Humberto Leitao	1652: Human body's micro-climate: Measurement and simulation	Voelker, Conrad	1336: CFD modelling for swirl diffuser and its implications on Air Change Effectiveness assessment to GreenStar's IEQ-2	Rusly, Eddy	1925: Modeling and simulation of HVAC faults in EnergyPlus	Basarkar, Mangesh
1200-1220	1209: SHARERADE: Combining Rhinoceros and Energyplus for the design of static exterior shading devices	Reinhart, Christoph F.	1278: A simple cost-benefit estimation for daylighting design and analysis during the design process	Jakubiec, J. Alstan	1685: Numerical simulation on hydrothermal environment of whole buildings taking into account complete HAM features	Ozaki, Akhito			1671: Towards an agent-based model of occupants' presence and behaviour	Robinson, Darren	1813: Solar availability: A comparison study of six irradiation distribution methods	Ibarra, Diego	1418: CFD modelling of plume interaction in natural ventilation	Cook, Malcolm J.
1220-1240	1363: Building integrated vegetation as an energy conservation measure applied to non-domestic building typology in UK	Hopfe, Christina			1706: A new thermal analysis by numerical simulation to investigate the energy performance of buildings	Corrado, Vincenzo					1382: Comparing the robustness of buildings designed to regulatory and low energy standards	de Wilde, Pieter		
	What Simulation Can Do in Design Process VII		New Work in Simulation IV		Advances In Building Physics II		Simulation in Regulatory Processes II		Human Aspects in Simulation IV		Limitations of simulations in Practice V		Software Issues II	
	Session Chair: Lori Mc Elroy		Session Chair: Roberto Lamberts		Session Chair: PC Thomas		Session Chair: Terry Williamson		Session Chair: Mike Donn		Session Chair: Graham Carter		Session Chair: Wim Plokker	
13:40-1400	1804: Solar radiation performance evaluation for high density urban forms in the tropical context	Zhang, Ji	1394: Modeling of heat transfer in rooms in the Modelica "Buildings" Library	Wetter, Michael	1821: Review of modelling approaches for developing virtual natural lighting solutions	Mangkuto, Rizki Armanto	1915: Assessing the effectiveness of building simulation to regulate residential water consumption and greenhouse gas emissions in New South Wales, Australia	Wilson, Scott	1694: A discussion on the occupancy-related indoor environment and electricity use in a UK residential building	Cui, Jia	1640: Review of reflective insulation estimation methods	Fricker, James	1370: Using design of experiments methods to develop low energy building model under Modelica	Plessis, Gilles
1400-1420	1563: Study on the impact of the building form on the energy consumption	Virgone, Joseph	1737: The design of an ESP-r and TRNSYS co-simulator	Beausoleil-Morrison, Ian	1599: Numerical study on the carbon dioxide distribution in a naturally ventilated space	Isele, Andre	1776: How useful are Building Energy Models for policy? A UK Perspective	Summerfield, Alex James	1807: Effects of variations of occupant behavior on residential building net zero energy performance	Brandemuehl, Michael	1707: Improving the modelling of surface convection during natural night ventilation in BES-models	Leenknecht, Sarah	1416: Modeling and case analysis of certain kind of separated heat pipe heat removal system	Zhu, Dandan
1420-1440	1788: Climate change risks from a building owner's perspective: Assessing future climate and energy price scenarios	Reinhart, Christoph F.	1815: Empirical prediction of office building lift energy consumption	Chen, Haibo	1369: Numerical investigation of wall's optimum multilayer insulation position	Mavromatidis, Lazaros Elias	1320: Climate change, building design and thermal performance	Orehounig, Kristina	1552: An approach for a statistical model for the user behaviour regarding window ventilation in residential buildings	Antretter, Florian	1378: A system for the comparison of tools for the simulation of water-based radiant heating and cooling systems	Behrendt, Benjamin M.	1584: On a novel approach to control natural and mechanical night ventilation in buildings with high thermal mass	Chahwane, Layal
1440-1500	1758: Uncertainty quantification of building microclimate parameters in energy simulation	Sun, Yuming	1193: A new modelling approach which combines energy flows in manufacturing with those in a factory building	Oates, Michael Raymond	1716: Development of a software tool for the evaluation of the shading factor under complex boundary conditions	Corrado, Vincenzo	1439: Applications of simulation and CAD tools in the Israeli "Green Building" Standard for achieving bioclimatic and low energy architecture	Shaviv, Edna	1627: A comparison of different mould prediction models	Saelens, Dirk	1742: Object oriented database for managing building modelling metadata and components	Davis, Oliver	1780: A method for the design and analysis of parametric building energy models	Pratt, Kevin Bucher
1500-1520	1218: Sustainability assessment frameworks, evaluation tools and metrics for buildings and its environment - A Review	Srinivasan, Ravi S.	1893: A comparative study on uncertainty propagation in high performance building design	Eisenhower, Bryan	1179: Performance analysis methods for passive downdraft HVAC systems	Corney, Andrew and Taniguchi, Todd	1909: Fire safety assessment of semi-open car parks	van der Heijden, M.G.M.	1868: Air curtains used for separating smoke free zones in case of fire	Krajewski, Grzegorz	1579: Comparing two methods stochastic modeling for buildings	Burhenne, Sebastian	1460: Numerical analysis of heat storage and heat conductivity in the concrete hollow core deck element	Pomianowski, Michal Zbigniew
1520-1540	1865: The use of normative energy calculation beyond building performance rating systems	Lee, Sang Hoon							1491: CFD and PIV based investigation of indoor air flows dominated by buoyancy effects generated by human occupancy and equipments	Yousaf,Rehan	1456: LESSONS Low Energy and Sustainable Solutions Online Knowledge System	Bunker, Gavin	1202: Effect of Convective Heat Transfer Coefficient (CHTC) on a PCM power to reduce buildings' energy demand	Poulad, M. Ebrahim