BuildSim-Nordic 2016 - preliminary program

26th & 27th September, Trondheim, Norway

Thank you for participating in the **BuildSim-Nordic conference** 2016 to be held on the 26th & 27th of September at NTNU, Trondheim, Norway organized by IBPSA-Nordic.

The purpose of the event is to create a platform for ideas exchange and research focus, and to establish cross-country collaboration in order to coordinate research work and exploit synergies in the field of building performance simulation among all Nordic Countries.

Venues

- Conference venue / registration
  Fluid Mechanics Building/Strømningsteknisk bygg, Gløshaugen Campus, Kolbjørn Hejes vei 2, 3rd floor, room 311, NTNU, Trondheim, Norway, 26th & 27th of September.
  Google link
  Mazemap

- Dinner
  Restaurant: Frati http://www.frati.no/
  Kongens gate 20, 7011 Trondheim
  Monday September 26th, 19:00.
  Google link

- Site visit
  Living lab/test cell: Richard Birkelands vei 2B (next to the building)
  Google link

Event presentation

All authors are invited to give an oral presentation at the event. Each presenter has 15min to present including 5min Q&A session. Please upload your presentation to the computer at the venue. It is advised to send a ppt a day before the event to matthias.haase@sintef.no.

Accommodation

Scandic Hotel Bakklandet: telefon +47 72902000 or bakklandet@scandichotels.com
(Bookingcode: NTN250916, single room NOK 1048,- p.n. (reservation required before 19.09.16)).
P-Hotels Brattøra: (bookingcode: 56285, single room: NOK 669 p.n.; double room: NOK 869 p.n.)
Alternatively it is possible to book your own accommodation e.g.:
- booking.com
- trivago.no
- hotels.com

Transport

It is appr. 25min walk from the city centre to Gløshaugen. Bus no. 5 will bring you there. For more information: www.atb.no

Registration

Registration takes place on Monday 26 September between 08:30 – 09:00 at the entrance of room 311.
An invoice will be sent from EPT to participants after the conference has taken place.

Please fill out the attached registration form, where we collect invoice details and dietary requirements. Could you please return it a.s.a.p., on Tuesday 13.Sep the latest to: Debbie Koreman van den Bergh, debbie.w.koreman@ntnu.no

The presentations will be made available online on our website (www.ibpsa-nordic.org).

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Monday 26.09.

08:30 – 09:00   Registration

09:00 – 09:15   Welcome notes (Prof Novakovic)

09:15-10:15   session 1 – parametric studies
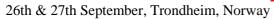**Chair: Prof Christensen**

Time	Title	Name	Affiliation
09:15 – 09:30	Impacts of parameter values interactions in energy balance simulation of residential buildings	Tettey	Linkøbing University
09:30 – 09:45	Influence of simulation input parameters and assumptions on modelled energy balance of a multi-family building	Dodoo	Linkøbing University
09:45 – 10:00	Building stock modelling based on array-programming	Broegger	Aalborg University
10:00 – 10:15	Assessment of Climate Change Robustness of a Deep Energy Retrofit Design of an Existing Day Care Centre	Moazami	NTNU

10:15-10:30   coffee break

10:30-11:30   session 2 – occupant behavior
Chair: Prof Novakovic

Time	Title	Name	Affiliation
10:30 – 10:45	Influence of occupant behavior and operation on performance of a residential Zero Emission Building in Norway	Tereshchenko	NTNU
10:45 – 11:00	Occupant distribution detection in residential buildings	Dziedzic	NTNU
11:00 – 11:15	Roadmap and Initial Findings of an International Occupant Behaviour Survey Study	Belafi	LBNL / Budapest University of Technology and Economics
11:15 – 11:30	Data-driven predictive demand response control for residential building with considering on-site energy generation	Arabzadeh	Aalto University

11:30-12:30   Lunch

Monday 26.09. (continued)

12:30 – 13:30   session 3 – heating models
Chair: Roseth Karlsen

Time	Title	Name	Affiliation
12:30 – 12:45	Data-driven predictive demand response control for residential building with considering on-site energy generation	Filipsson	Chalmers University
12:45 – 13:00	Simplified space-heating distribution using radiators in super-insulated apartment buildings	Georges	NTNU
13:00 – 13:15	Heat Pump Systems Adapted to Energy-Flexible and Highly Insulated Buildings in Cold Climate	Clauss	NTNU
13:15 – 13:30	A tool for early energy system analysis for zero emission buildings	Skeie	SINTEF

13:30 – 13:45   Coffee break

13:45 – 14:45   session 4 – new advances in building simulation
Chair: Prof Blomsterberg

Time	Title	Name	Affiliation
13:45 – 14:00	Using Dynamic Simulations to Analyze the Control of an Integrated Thermal Energy System for a Building Complex	Rohde	NTNU
14:00 – 14:15	An interactive methodology for selecting a suitable window design	Jalilzadehazhari	Linkøbing University
14:15 – 14:30	Flow interaction between diffuse ceiling ventilation and thermal plumes	Lestinen	Aalto University
14:30 – 14:45	Renovation of shopping centres in Norway	Haase	SINTEF

14:45 - 15:00   Coffee break

15:00 - 15:30   IBPSA-Nordic General meeting (open for all members)

15:30 - 17:30   IBPSA-Nordic Board meeting (only for board members)

19:00 - 21:00   Dinner

Restaurant: Frati http://www.frati.no/
Kongens gate 20, 7011 Trondheim
Meeting place: Google link
Monday September 26th, 19:00.

Tuesday 27.09.

08:30 – 09:30   session 5 – optimization
Chair: Haase

Time	Title	Name	Affiliation
08:30 – 08:45	A genetic algorithm for generating optimized typical meteorological years in any climate	Schild	HiOA
08:45 – 09:00	Multi-objective optimization of fenestration design in residential spaces – The case MKB Greenhouse, Malmö, Sweden.	Bournas	Lund University
09:00 – 09:15	Towards practical optimization approach for investigating computationally-expensive integrated building designs	Hamdy	NTNU
09:15 – 09:30	The effect of architectural configurations on the biological light response in residential buildings	Shalaby	Lund University

09:30 - 09:45   coffee break / BuildSim-Nordic award meeting (board members only)

09:45 – 11:45   session 6 - clinics

software	Topics	
IDA ICE	Tips and tricks in IDA ICE	Mika Vuolle, equa
COMSOL	Introduction to comsol	Erlend Kristiansen, comsol
	How to handle Occupant behaviour in BS	Zsofia Belafi, LBNL

11:45 – 12:00   BuildSim-Nordic award ceremony

12:00   Closing of BuildSim Nordic 2016

12:00-14:00   Site visit of ZEB test cell and ZEB living lab