

DYNASTEER international workshop on

**Whole Building Testing, Evaluation and Modelling for
Energy Assessment**

18-19 May 2011, Lyngby, Denmark

will be jointly organized by the EC - Joint Research Centre, INIVE EEIG and the
INTERREG IV project and takes place at the
Technical University of Denmark (DTU) Lyngby, Denmark.
DTU Conference Centre, Building 101A - Lyngby, Denmark

FINAL PROGRAMME (including IEA – ECBCS meeting 20 May)

Wednesday 18 May

9.00 Opening and registration

9.30 Session 1. Introductory session; Session chair – [Luk Vandaele](#)

H. Bloem DYNASTEER, aim and context of this workshop

L. Vandaele INIVE, network objectives in relation to EPBD

E. Lindström INTERREG IV – Vind i Øresund

S. Roels. Towards an IEA ECBCS-project on full scale dynamic testing’.

W. Maref NRC Canadian perspective on Testing, Analysis and Modelling
Field Energy Performance of an Insulating Concrete Form (Icf) Wall in
Cold Climate

10:45 Break

11:15 Session 2. Session chair - [Paul Baker](#)

N. König In-situ testing of elements and components in test cell.

H. Bloem A pseudo-dynamic approach to building energy performance
assessment - Requirements for experimental work in relation to evaluation

A. Erkoreka Hygrothermal testing and evaluation of a flat roof for a modular
house design

P. Delff Improved experimental setup for observation of non-linear heat
dynamics

12:30 Introduction to the afternoon visits:

S. Østergaard Jensen - The EnergyFlexHouse at DTI

H. Bindner – SYSLAB at RISØ

13:00 Lunch

14:00 – 18:00 **Visit** to SYSLAB at RISØ and EnergyFlexhouse at DTI test facilities by bus

Evening event. 19:30 Dinner in the Tivoli restaurant 'Hercegovina', Copenhagen

Thursday 19 May

9.30 Session 3. Session chair - [Hans Bloem](#)

- H. Madsen Identification of thermal characteristic and building energy performance parameters.
- P. Baker Dynamic analysis of *in situ* U-value and 'co-heating' test measurements in a traditional house
- M.J. Jimenez System Identification Applied to Energy Analysis in a Bioclimatic Office Building in Semi-desertic Weather in the South of Spain.
- V. Leprince Evaluation of 12 low energy buildings in Rhone-Alpes -- Monitoring and analysis.

11:00 Break

11:30 Session 4. Session chair - [Henrik Madsen](#)

- H. A. Nielsen Estimation of energy performance using data from smart meters
- J. Cipriano Evaluation of hourly monitoring data from 15 schools
- I. Heusler Decentral heating pumps - Comparative measurements at a conventional heating system and a system with decentral pumps
- J. Sedlak Assessment of energy performance of buildings and efficiency of solar systems used for the Czech research station in Antarctica and biological applications in the Czech greenhouses

13:00 Lunch

14:00 Session 5. Session chair - [Søren Østergaard Jensen](#)

- P. Strachan Validation of Dynamic Thermal Simulation Programs for Modelling Low-Energy Buildings
- M. Pietrobon, L. Pagliano Dynamic Optimization of Passive houses in Mediterranean climates under Fanger and Adaptive comfort models.
- C. Lodi Modelling the heat dynamics of a monitored Test Reference Environment for BIPV systems through different approaches
- P. Bacher Identification and validation of dynamical models

14:30 Break

15:00 Session 6. Session chair - [Paul Strachan](#)

- A. Hasan Optimal Multi-Objective Design of Integrated Micro-generation Systems and Buildings
- C. Rode Modelling of indoor environmental and energy consequences of the hygrothermal conditions of buildings
- R. Halvgaard. Predictive control based on stochastic dynamic models
- K. Hilger, J. Østergaard. Energy market models for the future

17:30 End of the workshop

Friday 20 May

Venue Hotel Scandic Copenhagen <http://www.scandichotels.com/copenhagen>

IEA meeting on ECBCS project proposal; chair by [Staf Roels](#)

9:00 - 12:30 discussion of the draft proposal

12:30 - 13:30 buffet lunch

13:30 - 16:00 round up, division of subtasks, planning of kick-off meeting autumn