DYNASTE 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 DYNASTEE, 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
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