

DYNASTEET workshop on Dynamic Methods for Building Energy Assessment 11 - 12 October, 2010 - Centre Borchette Brussels

PROGRAMME

Monday October 11, 2010

9.00 Opening of registration

9.30 Session 1: Context, challenges and opportunities

9:30 H. Bloem, EC – JRC Ispra

DYNASTEET Welcome, objectives of Dynastee and of this meeting

9:40 P. Wouters, INIVE EEIG, Belgium

INIVE Welcome, objectives of INIVE and link to this topic

9:55 L. Vandaele, BBRI, Belgium

History of PASLINK- DYNASTEET

10:20 T. Agami Reddy, Arizona State University, USA

Testing, verification and normalisation: a US perspective

10.45 Break

11.15 Session 2: Know how on data analysis and training

11:15 H. Madsen, DTU-IMM, Denmark

Mathematical and statistical approaches; Software tools

11:40 M.J. Jimenez, CIEMAT, Spain

System identification applied to modelling of building components and systems. Case studies: Opaque wall and ventilated PV system

12:05 H. Bloem, EC - JRC Ispra

System Identification Competition (training and case-studies)

12:30 T. Schnier; University of Birmingham

A dynamic thermal building model based on non-intrusive data collection

12:45 Lunch

14.00 Session 3: Data collection and experimental set-up

14:00 P. Baker, Glasgow Caledonian University, UK

Robin Robin Testing of Building Components using the PASLINK Test Facilities: Quality Assurance in Testing and Analysis

14:25 A. Erkoreka, University of the Basque Country, Spain

Upgrading and calibration of two PASLINK test cells. Evaluation through the "IQ-TEST" round-robin test

14:50 R. Pfluger, University of Innsbruck, Austria

Testing of a Window Device with Integrated Shading and Ventilation System with PAS-Test Cell and Coldbox

15:15 Short presentations about 4 new test sites

- G. Alcamo, University of Florence, Italy
- G. Nurzia, Hydro Building Systems Solar, Spain
- J. Cipriano, CIMNE, Lleida, Spain
- S. Jensen, DTI – ECD, Denmark

15.35 Break

16:00 Session 4: Application of results – simulation and prediction

- 16:00 P. Strachan, University of Strathclyde, UK
Dynamic Testing and Simulation for Assessing Building Performance Assessment
- 16:25 S. Jensen, DTI – ECD, Denmark
Calibration of models with MicroShades
- 16:50 Marinosci. Università di Bologna, Italy
Experimental benchmark of the modelling of a rain screen ventilated façade.
- 17:15 Y. Xing. University of Ulster, Ireland
Dynamic Modelling of Building Energy Demand, Supply and Storage.
- 17:25 P. Bacher DTU – IMM, Denmark
Statistical models describing the energy signature of Buildings
- 17:35 G. Masy, HEPL, Belgium
SISAL project: Free on line access to building dynamic simulation tools.

17.45 Conclusions and End of the first day around 18:00

19:00 Walking dinner in Brussels

Tuesday October 12, 2010

9.00 Session 5: Application areas in detail

- 9:00 L. Bourdeau, ECTP, France
EU projects : Overview of energy in buildings related FP7 projects
- 9:30 H. De Bleecker. Permasteelisa, Belgium
New buildings. Dynamic Façade Systems & detailed assessment tools for energy-efficient buildings - Experiences and view of a facade manufacturer & contractor
- 10:15 A. Androutsopoulos, CRES, Greece
Test cells : Testing the thermal performance of planted roofs by the use of Test Cells
- 10:30 P. Delff. DTU – IMM, Denmark
Test House, Non-linear phenomena in greybox-modeling of heat dynamics in buildings.

10:40 Break

11:00 Session 6: Energy performance and in-situ measurements

- 11:10 J. Wingfield : Leeds Metropolitan University
Existing buildings : In-situ Measurement of Whole House Heat Loss using Electric Coheating
- 11:35 R. Enriquez, CIEMAT, Spain
Existing buildings : First steps towards thermal dynamics identification of existing buildings through general simulation model calibration.
- 11:45 G. Zogla, A. Blumberga. RTU, Latvia
Existing buildings : In-situ heat flow measurements before and after energy efficiency measures in apartment buildings in Latvia
- 11:55 J. Molina. Numerical and Experimental Analysis o draught evaporative cooling in Seville
- 12:05 H. Madsen. DTU – IMM, Denmark
Intelligent metering : ENFOR Analysis of energy consumption in single family houses in Denmark.
- 12:30 Synthesis of challenges;
H. Bloem. Topics for follow-up event 2011
Test facilities for assessing advanced building components and nearly zero energy buildings
Whole building testing, analysis and modelling.
H. Madsen Summer school; Basic theory. Methods and tools. Dynamic analysis applied

13:30 End of the workshop