DYNASTEE workshop on
Dynamic Methods for Building Energy Assessment

11 - 12 October, 2010
Centre Borchette - CCAB Rue Froissart 36, Brussels

DRAFT programme *(last update 16 September 2010)*

Monday October 11, 2010

9.00 Opening of registration

9.30 Session 1: Context, challenges and opportunities
9:30 H. Bloem, EC – JRC Ispra
DYNASTEE 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- DYNASTEE
10:20 T. Agami Reddy, Arizona, 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

Monday October 11, 2010

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 Erkoreka

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

14:50 R. Pfluger, Universität Innsbruck, Austria

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

15:15 Short presentations about 3 new test sites

 - G. Alcamo, University of Florence, Italy
 - G. Nurzia, Hydro Building Systems Solar, Spain
 - J. Cipriano, CIMNE, Lleida, Spain

15.30 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 rainscreen ventilated façade.

17:15 G. Masy, HEPL, Belgium

SISAL project: Free on line access to building dynamic simulation tools.

17:25 Yangang Xing. University of Ulster, Ireland

Dynamic Modelling of Building Energy Demand, Supply and Storage.

17:35 P. Bacher DTU – IMM, Denmark

Statistical models describing the energy signature of Buildings

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

19.00 Walking dinner in Brussels
(participants will be contacted and must confirm their participation before 2 October)

Meeting point : will be announced

Tuesday October 12, 2010

9.00   Session 5: Application areas in detail

M. Berckmoes. *Dynamic Façade Systems & detailed assessment tools for energy-efficient buildings - Experiences and view of a facade manufacturer & contractor*

J. Wingfield : Leeds Metropolitan University
>***Existing buildings** : In-situ Measurement of Whole House Heat Loss using Electric Coheating*

A. Androutsopoulos, CRES, Greece
>***Test cells** : Testing the thermal performance of planted roofs by the use of Test Cells*

P. Delff. DTU – IMM, Denmark
>***Test House**, Non-linear phenomena in greybox-modeling of heat dynamics in buildings.*

G. Zogla.
>***Existing buildings** : In-situ heat flow measurements before and after energy efficiency measures in apartment buildings in Latvia*

G. Enriquez, CIEMAT, Spain
>***Existing buildings** : First steps towards thermal dynamics identification of existing buildings through general simulation model calibration.*

10:30   Break

11:00   Session 6: Energy performance and energy standards

H. Madsen. DTU – IMM, Denmark
>***Intelligent metering** : ENFOR Analysis of energy consumption in single family houses in Denmark.*

L. Bourdeau, ECTP, France
>***EU projects** : Overview of energy in buildings related FP7 projects*

Dynamic methodology and standardisation. CEN TC89 WG13 to be confirmed.

Synthesis of challenges;
Topics for follow-up event 2011
>Test facilities for assessing advanced building components and nearly zero energy buildings
>
>Whole building testing, analysis and modelling.

13:30   End of the workshop

Dynastee meeting
>**14.30 – 16.30 Part 2 – On invitation only (DYNASTEE members + ...)**