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 + ...)