



International Energy Agency
Energy Conservation in
Buildings and Community
Systems Programme

INTERNATIONAL WORKSHOP

FULL SCALE TEST FACILITIES FOR EVALUATION OF ENERGY AND HYGTROTHERMAL PERFORMANCES

BBRI offices
Boulevard Poincaré 79, 1060 Brussels

Brussels, Belgium
30-31 March 2011

*An initiative of DYNASTEE network and
INIVE EEIG*



DESCRIPTION OF THE WORKSHOP

Ambitious targets on transforming the building stock into a highly energy efficient and low carbon environment demand also very performing scientific tools for the evaluation of the energy performance of improved building envelopes and construction techniques. Full scale testing becomes –again- more relevant, in combination with dynamic analysis and numerical simulation tools.

Many test facilities of different scale are available at universities, research institutes and industrial R&D departments. New ones are under development. The capabilities of these facilities are not always well known or understood by the building industry and the broader research community. Moreover, a good operation of such facilities is challenging.

For these reasons, the network organizations DYNASTEE (www.dynastee.info) and INIVE (www.inive.org) have taken the initiative to organize a series of workshops on test and assessment methods for building energy performance.

This is a second workshop, focussing on full scale test facilities: Experiences with running such test facilities for the evaluation of the energy performance and hygrothermal characteristics of building components and full buildings will be exchanged and the targets for developing new facilities will be set.

The workshop will be followed by a 1 day brainstorming meeting on a new annex project of the IEA ECBCS (www.ecbcs.org) on *full scale testing, data analysis and modeling*.

A third workshop will be organised in Copenhagen on May 18 and 19, on *Whole Building Testing, Evaluation and Modelling for Energy Assessment*.

For more information about the IEA annex proposal, contact Staf Roels (Gustaaf.Roels@bwk.kuleuven.be).

VENUE OF THE WORKSHOP

The workshop will take place in the offices of the Belgian Building Research Institute (CSTC-WTCB) Boulevard Poincaré 79, 1060 Brussels.

It is within walking distance of Brussels South train station.

LANGUAGE

The workshop will be held in English. No translation is foreseen.

FEE

The workshop fee is 302.50 € (or 250 €, but only if you have a VAT number). This fee includes participation to the workshop, documentation, lunch on March 30, walking dinner (on 30/03 evening) and coffee breaks.

REGISTRATION

Participants should enrol by returning the registration form and pay the registration fee before March 20, 2011.

SECRETARIAT

For any information, please contact Stéphane Degauquier at INIVE EEIG (Belgian Building Research Institute - BBRI):

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Wednesday March 30**9.00 Registration****9.30 Session 1: Context, challenges and opportunities**

With introductions by DYNASTEE, INIVE, E2B, IEA

11.15 Session 2: Full scale test facilities: insulated building envelope testing

Incl. contributions of Staf Roels (KULeuven, B), C. Buxbaum (FH Kaernten, A), H. Miura (Nilim, J), M. Swinton (NRC, CA)

14.00 Session 3: Full scale test facilities: facade system testing

Incl. contributions of Dick van Dijk (TNO, NL), Monica Woloszyn (CETHIL, F), PASLINK test centra, ...

16:00 Session 4: Testing: challenges for the industry

Incl. contributions of Knauf Insulation, Permasteelisa, Lafarge, Daikin, Acciona, ...

18.00 End of the first day**19.00 Walking dinner in Brussels****Thursday March 31****9.00 Session 5: Full scale test facilities**

Incl. contributions of Soren Jensen, Flexhouse (DTI DK), ...

11:00 Session 6: Test facilities for Zero Energy Solutions

Incl. contributions of T. Jacobsen (Sintef, N), ...

12:30 Conclusions of the workshop**13:30 End of the workshop**

For the latest update of the programme, see www.dynastee.info

DYNASTEE stands for: “**D**YNamic **A**nalysis, **S**imulation and **T**esting applied to the **E**nergy and **E**nvironmental performance of buildings”. DYNASTEE is an informal grouping of organisations actively involved in the application of tools and methodologies relative to this field. DYNASTEE functions under the auspices of the INIVE EEIG and constitutes a sustainable informal networking mechanism, which is intended for those who are involved in research and applications related to energy performance assessment of buildings.

Over the years, the Grouping of Outdoor Test Centres (formerly PASLINK EEIG), has actively supported activities and initiated European research projects related to the energy performance assessment of buildings. Real experimental set-up for outdoor testing of building components provided high quality data series for estimation of thermal characteristic parameters.

The objective of DYNASTEE is to provide a multidisciplinary environment for a cohesive approach to the research work related to the energy performance assessment of buildings in relation to the Energy Performance for Buildings Directive (EPBD).

INIVE EEIG (International Network for Information on Ventilation and Energy Performance) was created in 2001 as a so-called European Economic Interest Grouping. The main reason for founding INIVE was to set up a worldwide acting network of excellence in knowledge gathering and dissemination. At present, INIVE has 11 member organisations (BBRI, CETIAT, CIMNE, CSTB, ERG, ENTPE, IBP, SINTEF, NKUA, TMT US and TNO), and there is interest in joining among other organisations. (www.inive.org)

The original reason for creating INIVE was the availability of a strong entity able to act as the Operating Agent for the IEA' Air Infiltration and Ventilation Centre (AIVC). AIVC is the IEA Information Centre that deals with the topic of energy efficient ventilation and air tightness of buildings. Since 2001, INIVE has been the Operating Agent for the AIVC (www.aivc.org).

As a service provider to the European Commission and the European Agency for Competitiveness and Innovation, INIVE EEIG has been coordinating the European Buildings Platform since 2006 and, since 2009, BUILD UP, which is THE European portal on Energy Efficiency (www.buildup.eu).

INIVE aims to stimulate and contribute to the creation of new knowledge in key areas of ventilation and energy efficiency. In the ASIEPI project (www.asiepi.eu), which finished in March 2010 and was coordinated by INIVE, several critical areas related to energy-efficiency policies were analysed, with a whole range of new findings as a result.

INIVE also wants to facilitate structured collaborations, which go beyond the duration of single projects. The best example of such collaboration is the DYNASTEE-PASLINK network (www.dynastee.info), which is the leading network of use and development of system identification techniques and related applications. The DYNASTEE-PASLINK network is a part of the INIVE Activities.

The organization of the conference is financially sponsored by KNAUF Insulation (www.knaufinsulation.com) and Permasteelisa Group (www.permasteelisa.com). ENBRI (www.enbri.org) and E2B (www.e2b-ei.eu) are also supporting this workshop.

