



Second announcement & call for papers

# 5<sup>th</sup> International BUILDAIR-Symposium "Building and Ductwork Air-tightness"

(former "European  
BlowerDoor-Symposium")

October 21–22, 2010

Danish Technical University, Copenhagen/Lyngby, Denmark



energie + umwelt zentrum

in Cooperation with

Danmarks Tekniske Universitet



## Scope

The 5<sup>th</sup> *International BUILDAIR-Symposium "Building and Ductwork Air-tightness"* this year combines contributions from science, research and practical application knowledge. The symposium offers a forum for an intensive exchange between the participants.

The first day is devoted to science and current research. Practical aspects will be presented on the second day and entitled "BlowerDoor-Symposium". The e·u·[z] resumes the tradition of these very practical symposiums which took place as national events until 2005.

Interest in highly efficient buildings has been growing steadily, with there being plans for the introduction of these on a massive scale – plans which are even being put in practice in many countries. One major challenge is to attain the air-tightness needed for highly efficient buildings in the actual field of practice, to construct the building envelope so that it remains air-tight over a long period of time and to make quality assurance common practice.

At the same time, highly efficient buildings must have a ventilation concept which ensures hygienic air exchange while preventing mould and dampness and minimizing concentrations of toxins.

## Topics at the conference

Beside the main subject areas of air-tightness and ventilation, the conference will address additional issues such as building thermography and mould. In 2010 the focus is to be placed on the following questions and topics (priority will be assigned to contributions which concentrate on one of the following topics):

### Science and research

- Building and ductwork air-tightness – from theory to large-scale application
- The latest developments in energy-efficient ventilation systems

- Measuring technology for air-tight building envelopes, current product and system developments
- Measuring results in situ and forecasting techniques
- Current research on adhesive bonds
- Round-robin tests of building air-tightness / calibration of measuring instruments
- Extreme values of building air-tightness as a norm
- Reduction of indoor air contaminants through ventilation – is it effective?
- International comparison of parameters and limit values for building air-tightness
- Aspects of cost-effectiveness of indoor air climate
- Developments with highly efficient buildings – measured or calculated efficiency
- Comparison of energetic demands for highly efficient buildings with national demands on energy efficiency

### Application knowledge and exchange

- Air-tightness in light of current standards and regulations
- Economic production of air-tight building envelopes
- Current experience with measurement of air-tightness and thermography
- Tracer gas (CO<sub>2</sub>, PFT) measurement in buildings using blower door
- Radon measurement in buildings
- Experience with the air-tightness of ventilation ducts
- Measurement of air-tightness in big buildings – field reports
- Special measurements – field reports
- Air quality in multi-story buildings, e.g. elimination and measurement of fumes from neighboring apartments in floor separation
- Air-tightness strategies in practice
- Products for the air-tight building envelopes in practice
- Retrofitting in cases of insufficient air-tightness
- Current developments in the ventilation market
- Significance of air-tightness in energy-demand calculations

## Program

The conference program consists of:

- **Keynote presentations** during the opening plenary sessions on both days;
- **Detailed oral presentations** (30–45 minutes followed by discussion);  
**brief oral presentations + posters:** (5 minute introduction followed by exhibit);
- **Discussion forum;**
- **Closing plenary session.**

## Dates

The Conference will start on Thursday, October 21, 2010 at 10 a.m. and will end on Friday, October 22, 2010 at about 4 p.m. A welcoming reception is planned for Wednesday evening, October 20. Excursions and a relaxed get-together program are planned for October 23, 2010.

## Abstracts

The one-page abstract, single-spaced and in English or German (only for authors from German-speaking countries) should include:

- The full title
- The author's full name, affiliation, address, phone, fax & e-mail
- Purpose of the work
- Method
- Results and assessment of their significance
- Conclusions.

In addition, authors may include up to 2 pages of notes to facilitate the reviewer's assessment.

A standard form for the abstract can be found on the website: see [www.buildair.eu](http://www.buildair.eu)

Abstracts should be sent in one of the following ways:

- by E-mail : Word, RTF or ASCII (text only) to: [abstracts\\_buildair@e-u-z.de](mailto:abstracts_buildair@e-u-z.de)
- by fax to + 49.5044.975 66
- by post mail to the address of the conference secretariat (see below)

## Deadline for abstracts and papers

Receipt of abstracts	August 13, 2010
Submission of papers	September 20, 2010
Submission of PowerPoint presentations	October 6, 2010

More information will be provided on the conference website: [www.buildair.eu](http://www.buildair.eu).

## Conference record

All accepted papers will be included in the Conference Proceedings / conference CD, which will be made available at the beginning of the conference.

## Venue

The Oticon Hall, Technical University of Denmark, Anker Engesunds Vej 1, 101E, 2800 Kgs. Lyngby, Copenhagen, Denmark  
A contingent of rooms is being reserved for conference participants and accompanying persons. More information will be provided on [www.buildair.eu](http://www.buildair.eu) and in the printed program.

## Languages

Simultaneous interpretation will be provided for the complete conference in Danish, English and German.

## Registration fees

	by August 15, 2010	later
Conference fee (both days)	449 €	499 €
Conference fee (both days) including Conference dinner on October 21	489 €	539 €
Conference fee (one day)	299 €	339 €
Conference fee speakers (both days)		249 €
Conference fee for students* (both days)	249 €	279 €

Prices do not include accommodation and are subject to 19% VAT.

A reduced conference fee for speakers is required for each technical paper included in the program. Papers submitted without payment of the registration fee will not be included in the conference proceedings or the technical program.

Fees cover: attendance of all the sessions; welcoming coffee, lunches and breaks throughout the conference; the transcript of the conference / CD.

The guided tour with food and drinks on Saturday is subject to additional charge. The costs will be published in the detailed program.

\* Only for full-time students who are not older than 27 or PhD students with a valid student ID – this does not cover the transcript of the conference.

## Conference secretariat

If you would have any further questions, please contact the conference secretariat:

**Energie- und Umweltzentrum am Deister GmbH**

Zum Energie- und Umweltzentrum 1  
D-31832 Springe, Germany  
Phone +49 5044 97520, Fax +49 5044 97566  
E-mail: [bildung@e-u-z.de](mailto:bildung@e-u-z.de)  
Contact: Sabine Schneider, Bernd Rosenthal

## Sponsorship and exhibition

Please contact the conference secretariat if you have any questions regarding sponsorship or exhibitions.

## Additional information

More information will be provided on the e.u.[z.]-website [www.buildair.eu](http://www.buildair.eu)

If you would like to receive further information via E-Mail, please send a mail to the conference secretariat ([bildung@e-u-z.de](mailto:bildung@e-u-z.de)) requesting "further information on BUILDAIR Conference 2010".

## Conference organizers/partners

The conference is being organized by Energy and Environmental Center Deister GmbH (e.u.[z.]) in cooperation with the Danish Technical University and KLIMASKAERM.

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