

Program

5th International BUILDAIR-Symposium "Building and Ductwork Air-tightness"

former "European BlowerDoor-Symposium"

October 21-22, 2010

Danish Technical University Copenhagen/Kgs. Lyngby, Denmark with accompanying trade exhibition



Organisers

Energy and Environmental Center Deister GmbH (eu $[z\,])$ in cooperation with the Danish Technical University, the Danish Society of Engineers and KLIMASKAERM

Coordination and Conference secretariat

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

Energy and Environmental Center Deister GmbH, Sabine Schneider, Zum Energie- und Umweltzentrum 1, D-31832 Springe, Germany Tel. +49 5044 975-20, Fax +49 5044 975-66, e-mail: bildung@e-u-z.de, www.buildair.eu

Organisation of the accompanying trade exhibition

Should you require application documents, want to register for the exhibition, or have any questions, please contact: Margareta Hollmann, Fon: +49 5044 975-22, e-mail: hollmann@e-u-z.de

Booking of accommodation

A contingent of rooms has been reserved for conference participants and accompanying persons. For further information please consult the participants' section on our web site www.buildair.eu.

Registration/back office

To register, please return the attached registration form by fax: +49 (0) 50 44 975 66 or by mail: Energie- und Umweltzentrum am Deister, Sabine Schneider, Zum Energie- und Umweltzentrum 1, D-31832 Springe, GERMANY

Terms of registration/fees

by Septeml	ber 24, 2010	later
Conference fee (both days)	449 €	499 €
Conference fee (both days) including		
Conference dinner on 21. Oktober	489 €	539 €
Conference fee (one day)	299 €	339 €
Conference fee speakers (both days)	249 €	
Conference fee students* (both days)	249 €	279 €

Prices do not include accommodation and are subject to 19% VAT. The early bird fee only applies if registration and payment have been made before September 24, 2010. Fees cover: attendance of all the sessions; welcoming coffee, lunches and breaks throughout the conference; the transcript of the conference/CD.

Deadline for registration is October 14, 2010.

* 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.

Once you have registered, you will receive a confirmation of your registration, a map along with directions to find the Symposium venue, and the invoice. Cancellation of registration has to be submitted in writing. We will charge an administrative fee of $70.00 \in$ (incl. VAT) if cancellation is made up to 21 days prior to the Symposium, date as postmarked. After that date, or if you are unable to attend the Symposium, we will charge the full amount as specified in your invoice. Prior consultation provided, you may suggest an alternative participant. In case the Symposium has to be cancelled for extraordinary reasons, we will inform you immediately. In that event, we are only obliged to refund any participation fees you may have paid before that date.

We reserve the right to change the list of speakers and/or the program in exceptional cases. In any case, the liability is limited to the participation fee.

Please fill in the form with block letters, or tick boxes. Please use a separate form for each participant (copy if necessary).

I would like to register for the 5th International BUILDAIR-Symposium, Danish Technical University, 2800 Kgs. Lyngby/ Copenhagen, Denmark. This registration is binding.

Please tick!

- □ Participation on October 21–22, 2010
- □ Participation **only on October 21, 2010**
- □ Participation only on October 22, 2010
- □ Evening programme on October 21, 2010
- □ Regular rate
- □ Early booking rate (only applies if registration and payment have been made before September 24, 2010)
- □ Student rate (only with copy of a valid student ID)
- □ I will arrive on October 20, 2010 and would like to take part in the get-together evening starting at 8 p.m.

 \Box Madam \Box Sir

Surname/Name
Company/Institute
Street/P.O. Box
Country/Postal Code
Phone/Fax
Email
VAT-ID-No.

- □ I am interested in the pre-Symposium get-together on the evening of October 20, 2010. Please send me some additional information to my above-mentioned e-mail address.
- □ I am interested in the evening program on October 21, 2010. Please send me some additional information to my abovementioned e-mail address.

I explicitly accept the terms of registration.

City/Date Signature

5th International BUILDAIR Symposium "Building and Ductwork Air tightness"

The growing interest in highly energy-efficient buildings requires an intensive analysis of the factors impacting energy efficiency like construction materials and technologies, measuring and calculation methods, the legal requirements, building and modernization costs, indoor hygiene, as well as other aesthetic and social aspects.

Important challenges that need to be met are to implement the level of air tightness necessary for highly energy-efficient buildings across the different climatic conditions in Europe, to ensure long-term air tightness of the building envelope, and to establish quality assurance as common practice. At the same time we need ventilation concepts for highly energy-efficient and thus airtight buildings that not only guarantee hygienic air change and sufficient air humidity, but also protection against excessive humidity and mould formation and a minimization of pollutant concentration.

The 5th International BUILDAIR Symposium on air tightness of buildings and ventilation systems this year combines contributions from science, academia and research with a lot of applied user knowledge and intensive discussion amongst the participants, for example at an open-space workshop and dedicated networking room.

At the BUILDAIR Symposium, builders and contractors, energy consultants, researchers, developers and planers, as well as guality managers will engage in lively discussions on current issues in the field and receive compact information, tips, and insider knowledge from experts for experts in the field. It is this interactive approach that characterizes the conference: Questions can be clarified immediately in direct interaction with the approximately 30 highly competent speakers. Make use of our international expert forum to engage in a dialogue with experts in the field, from business and research. Attending our conference will offer you direct added value.

Conference program

Thursday, October 21, 2010

10:00	Opening session BUILDAIR: Welcome and opening address
10:20	DTU's work on air tightness related issues Prof. Carsten Rode
10:50	Statistical examination about the correlation between intended buil- ding quality and measured air tightness of the building envelope Prof. Thomas Bednar
	Poster Session 1
11:20	Natural ventilation in energy efficient buildings by wind, solar radia- tion and in- and outdoor temperature difference S. Olof Hägerstedt
11:23	Energy performance of natural ventilation combined with mechanical ventilation in residential buildings Peter Foldbjerg
11:26	Importance of a proper applied airflow in the facade air gaps when moisture and temperature are calculated in wood framed walls S. Olof Hägerstedt
11:29	New rapid method for assessment fo fungal exposure in indoor air Morten Reeslev
11:32	Mould and health problems in buildings Peter Thompson
11:35	BlowerDoor test of the first passive house in China Michael Meyer-Olbersleben
11:40	Coffee break and exhibition visit
	Session 1: Ventilation
12:10	Performance assessment of residential demand controlled exhaust ventilation strategies Jelle Laverge
12:30	Mixed convection cooling in an enclosure with different inlet and outlet configurations Marc Delghust
	Poster Session 2
12:50	Airtightness assessment of newly build single family houses in Belgium

- Jelle Laverge
- 12:53 How to motivate employees to achieve good air tightness Karl Andreassen
- 12:56 Experience with big buildings air-tightness measurements Daniela Hrossova

12:59	The role of infiltration in energy-efficient office buildings in Norway Matthias Haase
	Exhibitor lectures
13:02	More then 20 years of practical experience in air tight building in Switzerland S. Schwaab, J. Wollnow
13:07	How to seal junctions between window frames and wall frames? Stefan Tenbuß
13:12	Local ventilation concept for energetic refurbishment Peter Moser
13.17	Residual moisture of the floor screed, drynes and non-destructive humidity measurement Walter Denzel
13:25	Lunch break and exhibition visit
14:55	Guided tour DTU laboratory / open space workshops
	Session 2: Air tightness measurment in cold climats
15:55	Peoples experience of the indoor climate in wind exposed apartments Brigitta Nordquist
16:15	Practial experiences and challenges in airtightness measurements of wood-framed houses in Norway Magnus Vagen
16:35	Air Tightness and Energy Performance of an Arctic Low-Energy House Prof. Carsten Rode
16:55	Coffee break and exhibition visit
	Session 3: Air tightness: quality control and construction
17:25	Critical humidity management in constructions with increased insu- lation thickness Lothar Moll
17:45	Air permeability requirements for air barrier materials in passive houses Jelle Langmans
18:05	Typical problems in constructions recognized with infrared camera and blower-door test Daniela Hrossova
18:25	End of day program



Friday, October 22, 2010

	Session 4: Large Buildings
9:00	The BlowerDoor measuring method "Bestimmung der Fugendurchläs- sigkeit von Fenstern und Fugen" used for decision of large buildings air tightness Lars Due / Stefanie Rolfmeier ?
9:20	Air leakage measurement test configuration for large buildings Collin Genge
9:40	Pressure distribution and Nachströmwege bei BlowerDoor Messungen Paul Simons
10:00	Coffee break and exhibition visit
	Session 5: Air tightness measurment
10:30	A round-robin Test of Czech airtightness test providers Jiri Novac
10:50	Experiences in air permeability round-robin tests in Germany by FLiB e.V. Stefanie Rolfsmeier
11:10	Open Space Workshop
12:10	Lunch break and exhibition visit
	Session 6: Durability of sealings and special measurments
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Dates

The Conference will start on Thursday, October 21, 2010 at 10 a.m. and will end on Friday, October 22, 2010 at about 5 p.m. A welcoming reception is planned for Wednesday evening, October 20. Conference dinner is foreseen for October 21. Excursions and a relaxed get-together program are planned for October 23, 2010. For more information please refer to www.buildair.eu.

Venue

Danish Technical University, The Oticon Hall, Anker Engelunds Vej 1, 101E, DK-2800 Kgs. Lyngby, Copenhagen, Denmark. Directions to the venue will be sent to you with your invoice.

Conference record

All accepted abstracts will be included in the printed Conference Proceedings in German and English. Full papers or PowerPoint presentations will be made available on the conference CD.

Languages

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

List of speakers

Ackermann, Prof. Thomas, Bielefeld, D • Andreassen, Karl, Give, DK • Bednar, Prof. Dr. Thomas, Wien, A • Due, Lars, Boeslunde, DK • Foldbjerg, Peter, Hørsholm, DK • Genge, Colin, Vancouver, CDN • Delghust, Marc, Gent, B • Denzel, Walter, Börtlingen, D • Haase, Matthias, Trondheim, N • Hägerstedt, S. Olof, Lund, S • Hrossova, Daniela, Prag, CZ • Labat, Matthieu, Villeurbanne, F • Langmans, Jelle, Heverlee, B • Laverge, Jelle, Gent, B • Meyer-Olbersleben, Michael, Lüneburg, D • Moll, Lothar, Schwetzingen, D • Moser, Peter, Löberschütz, D • Nordquist, Birgitta, Lund, S • Novac, Jiri, Prague, CZ • Ostergaard, René, Aarhus, DK • Rode, Prof. Carsten, Kgs. Lyngby, DK • Rolfsmeier, Stefanie, Springe, D • Sebastian, Walter, Hoersholm, DK • Simons, Paul, Springe, D • Tenbuß, Stefan, Köln, D • Thompson, Peter, Hoersholm, DK • Vagen, Magnus, Trondheim, N • Wollnow, Jörg, Ruswil, CH