

## Excursion, Sunday 21 May 2006

On Sunday, 21 May 2006 there will be the opportunity to attend one of a number of different tours to visit new Passive Houses and building renovations which involve Passive House components.

### Tour 1: 8.30 - 17.00

New buildings, renovated buildings,  
non-residential buildings

#### Buildings to be visited:

The Kronsberg Passive House estate, apartment buildings,  
the college of education gymnasium in Laatzen,  
(with snack lunch),  
Nursing home, renovated building (building site)

### Tour 2: 8.30 - 17.00

Main focus: refurbishment of existing buildings with  
Passive House components

#### Buildings to be visited:

2 apartment buildings (occupied),  
the college of education gymnasium in Laatzen,  
(with snack lunch),  
2 apartment buildings (construction site)

### Tour 3: 8.30 - 14.00

#### Buildings to be visited:

renovated building (occupied),  
existing building construction site,  
college of education gymnasium in Laatzen,  
(with snack lunch).

## TIME SCHEDULE 10<sup>TH</sup> INTERNATIONAL PASSIVE HOUSE CONFERENCE HANOVER

15.03.2006:	Deadline for submitting accepted written conference contributions
19./20.05.2006	10 <sup>th</sup> Passive House conference Hanover
21.05.2006	Excursion to built Passive Houses

Photos front page: Passive House Ottbergen, architect: Carsten Grobe, nursing home ProSenis Hannover, architect:  
Art-Plan, refurbishment apartment building Große Barlinge Hannover, design: Nicole von Oesen.

## Passive House Exhibition 06

As the leading exhibition of the Passive House industry it gives you comprehensive information about products, materials, new technical systems and processes of energy-efficient building and modernisation. Parallel to the 10th international Passive House conference the following companies present themselves at the exhibition

- Building companies, specialist federations, architecture and engineering offices,
- Manufacturers of windows, doors, ventilation systems and insulating materials,
- Providers of building parts, construction systems, technical services installations and solar companies.

They present building components and products which reach the top standards for energy-efficient building through high quality and innovative technology.

- Conference and exhibition take place directly next to each other in the HCC Hanover.
- A support programme of lectures is directed at conference and exhibition visitors. Here exhibitors can present their products and services.

We would be pleased to welcome you at the Passive House exhibition 2006.

### PASSIVE HOUSE EXHIBITION 06

Date: Friday 19 May - Saturday 20 May 2006

Location: HCC Hanover

Opening hours: 19 May: 9 am - 7 pm and 20 May: 9 am - 5 pm

Exhibition area: 2 500 m<sup>2</sup>

### TARGET PUBLIC:

The exhibition is directed at interested building owners and specialist visitors such as architects, building specialists, planners, energy consultants, producers of building products, companies in the building industry, housing industry and energy providers.

### TO ORDER THE EXHIBITOR DOCUMENTS :

Tel: +49(0)6151- 8 26 99 0 • Fax: +49 (0)6151- 8 26 99 11  
tagung@passiv.de

## 10<sup>TH</sup> INTERNATIONAL PASSIVE HOUSE CONFERENCE 2006



## Programme of the Passive House Conference 2006

Hanover Congress Centrum  
with Passive House exhibition

19 and 20 May 2006  
Conference

19 and 20 May 2006  
Passive House Exhibition

21 May 2006  
Excursion

[www.passivhaustagung.de](http://www.passivhaustagung.de)



## Registration

### 10<sup>TH</sup> INTERNATIONAL PASSIVE HOUSE CONFERENCE HANOVER 19 AND 20 MAY 2006

BY POST TO:  
Passivhaus Institut,  
Rheinstr. 44 - 46  
D - 64283 Darmstadt

BY FAX TO:  
Passivhaus Institut,  
Fax: + 49 (0)6151 / 8 26 99 11

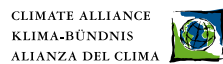
WWW.PASSIVHAUSTAGUNG.DE

CONFERENCE LANGUAGES: GERMAN, ENGLISH. Simultaneous translation into english will be provided in all sessions.

#### ■ UNDER THE PATRONAGE OF:



#### ■ IDEAL SUPPORTERS OF THE 10<sup>TH</sup> INTERNATIONAL PASSIVE HOUSE CONFERENCE ARE:



The international components of the conference are promoted in the EU Projekt PEP „Intelligent Energy-Europe“ - Programme.

## Conference Fees

### CONFERENCE 19 AND 20 MAY 2006

Early booking rate (by 20.03.2006): 422.- €, after this 498.- €  
Speaker: 155.- €  
accepted poster contribution: 298.- €  
Discount for members of the IG Passive House: 30.- €  
Student discount: 50 % (only full-time students, copy of the student ID card must be enclosed)

With participation on just one day of the event the conference fee is reduced accordingly:

Early booking rate (by 20.03.2006): 298.- €, after this 348.- €  
Discount for members of the IG Passive House: 15.- €  
No further reduction with speakers or poster contributions with participation on just one day

### EVENING EVENT, FRIDAY 19 MAY 2006

Reception, Hanover Guildhall, with warm buffet (including drinks): 20.- €

### EXCURSION ON SUNDAY 21 MAY 2006

(only for conference participants): 25.- €

## Business Terms and Conditions

### 1. REGISTRATION

Registrations must be made in writing. They are binding and will be taken into account in the order in which they are received by the organiser. The number of participants is limited. After registration you will receive an invoice. The early booking discount is only granted if registration and payment have been carried out by 20.03.06. The participation in the conference is only possible when the participation fee has been paid in full. Cancellations of registration must principally be made in writing. In case of withdrawal of the registration by 28.04.2006 we will charge a processing fee of 70 €; the full participation fee will be due in case of later cancellation or non-appearance. It is of course possible to name substitute participants.

### 2. SERVICES

The scope of services includes: the conference proceedings with the presentations for the conference, lunch, coffee breaks. The organiser reserves the right to make any changes which may become necessary in the programme schedule.

### 3. CANCELLATION, RESTRICTION TO LIABILITY

In the event that the 10th Passive House conference has to be cancelled the participants will be notified immediately. In this case the organiser is only obliged to reimburse the already paid participation fee. The liability of the organiser is limited in any case to the paid participation fee.



### SCIENTIFIC CONFERENCE ADVISORY BOARD

Wolfgang Feist, Darmstadt (DE) • Manfred Görg, Hannover (DE)  
Robert Hastings, Zürich (CH) • Peter Holzer, Krems (AT) • Henk Kaan, Petten (NL) • Helmut Krapmeier, Dornbirn (AT) • Rainer Pfluger, Darmstadt (DE) • Burkhard Schulze Darup, Nürnberg (DE) • Maria Wall, Lund (SE) • Mark Zimmermann, Dübendorf (CH)

# Passive House Conference

## ACTIVELY SHAPING THE FUTURE

Climate change, limited sources of energy and the dependence on energy supply from regions, that are not the most stable of the world, all call for an energetic implementation of sustainable alternatives.

The Passive House Conference is not intended for a continuing discussion of the problems - the Passive House Conference gives approved answers for dealing with the tasks of the future:

- Our actions today determine what our future will look like.
- Two approaches are successful: Substitution by renewable energy and a general improvement in energy efficiency. Only when both approaches are used will a sustainable solution be achievable.
- Passive Houses offer a successfully tested contribution towards improving efficiency. The improvement is so comprehensive that even in less sunny Central Europe the consumption of energy used for heating of buildings can be fully covered by sources of renewable energy.
- Passive House components are also suitable for use in the modernisation of existing buildings. In such cases a saving of 75% to 90% of the original heat requirement can be achieved.
- The construction of new Passive Houses and the Passive House modernisation of existing buildings lead to an improved level building protection, to a higher level of comfort and to a good level of air quality.
- Today Passive Houses can be achieved at an affordable degree of expenditure - and by everyone who familiarises himself with the necessary know-how.

Implementation is made on a regional basis. In the construction of Passive Houses the slogan "Think global, act local" is not merely a set of empty words. For this reason the Passive House Conference takes place at a different location each time - and in 2006 it will be held in Hanover. The enerCity fund proKlima is a co-organiser of the Conference. The fund has shown in an exemplary manner how it is possible to provide effective regional support for putting the ideas of energy-efficient construction into practice. This point will be covered in more detail by the Conference's working groups.

The Passive House Conference is the place where experience can be exchanged between architects, technical designers, component manufacturers, users and people from the research and development sectors. The Passive House Conference 2006 is a jubilee event. It will be the 10th time which this intensive combination of theory and practice has taken place. Old hands and newcomers meet together - and everyone interested in helping to shape the future is welcome.

[www.passivhaustagung.de](http://www.passivhaustagung.de)

## Conference Programme, Friday 19 May 2006

**09:00 Plenary session:** Opening by **Wolfgang Ornth** (Federal Ministry of Transport, Building and Urban Affairs), Welcoming speeches by **Hans Mönninghoff** (First city councillor of Hanover), **Walter Meinhold** (Stadtwerke Hanover), **Gordon Sutherland** (EU-Commission)  
**09:45 Manfred Görg:** Think globally - act concrete. Implementation of a sustainable energy strategy using the example of Hanover  
**10:30 Wolfgang Feist:** Contributions to efficiency - highlights from 10 years of Passive House conferences  
**11:15** Joint tour of the exhibition

### 12:30 Lunch

	<b>Kuppelsaal</b> <b>Working group 1:</b> <b>Modernisation using Passive House components</b>	<b>Roter Saal</b> <b>Working group 2:</b> <b>New ideas on Passive House ventilation</b>	<b>Blauer Saal</b> <b>Working group 3:</b> <b>Implementation in the Hanover region</b>	<b>Bonatz Saal</b> <b>Working Group 4:</b> <b>Promotion of Passive Houses</b>
<b>14:00</b>	<b>Stefan Oehler</b> The renovated Münsterländer Hof	<b>Andreas Bühring</b> Current status of the continuing development of compact building services units	<b>Stefan Bär</b> Construction of 2 new day-care centres to the Passive House standard	<b>Andrew Pindar</b> Passive-On: Marketable Passive Homes for the Mediterranean
<b>14:20</b>	<b>Nikolaus Diefenbach</b> Modernisation of two-family houses to different energy standards using large-scale units with vacuum insulation	<b>Rolf-Peter Strauß</b> Innovative ventilation equipment with „AirSwitcher“ – first experience and implementation	<b>Carsten Grobe</b> Renovation of a school building to the Passive House standard with an energy reference area of ca. 20.000 m²	<b>Irena Kondratenko</b> Energy Saving Potential from Passive House Standard in Ireland
<b>14:40</b>	<b>P. Engelmann, M. Kramp</b> Energy and economy in renovation - the students residence „Neue Burse“ in Wuppertal	<b>Ruedi Kriesi</b> The enthalpy plate heat exchanger - for further improvement of the indoor comfort	<b>Gerd Kis, Carsten Grobe</b> Triple sports hall meeting Passive House standard	<b>Erwin Mlecnik</b> Promotion of Passive Houses: from Estimating the Energy Saving Potential to the Implementation of Financial Stimuli
<b>15:00</b>	<b>Hartmut Hübner</b> Sustainable modernisation of prefabricated panelised buildings. System analysis and planning criteria	<b>Christel Russ</b> Centralised or decentralised heat supply in Passive apartment buildings - results of energy-related evaluations	<b>Michael Danner</b> User experiences in renovated buildings with low energy requirement	<b>Erik Franke</b> Implementation of PH Technology in the Netherlands: Experiences from the Past and New Challenges
<b>15:20</b>	<b>Harald Krause</b> Considerations on the practical value of thermal-bridge-free installation of windows in existing and new buildings	<b>Thomas Schmeisser</b> Frost protection and mass flow balance in LTS ventilation equipment	<b>Friedhelm Birth, Detlef Christ</b> Modernisation of the apartment building Schneiderberg 17, Hanover	<b>Berthold Kaufmann</b> High Thermal Performance Building Components – Investment Costs Versus Running (Energy) Costs

### 16:00 Coffee break

	<b>Working group 5:</b> <b>Architecture: theory and practice</b>	<b>Working group 6:</b> <b>Passive House schools</b>	<b>Working group 7: Regional networks for modernisation</b>	<b>Working Group 8: Passive Houses in Cold and Mediterranean Climates</b>
<b>16:30</b>	<b>Rainer Vallentin</b> From solar construction to solar-formed man-made environments	<b>Oliver Kah</b> Passive House standard for school buildings. Boundary conditions for the layout and design aspects	<b>Christian Stolte</b> Potential of the energy-related renovation of existing buildings using Passive House components. Experience gained from the dena projects „Low energy house in existing building stock“	<b>Ulla Janson</b> New Passive House Projects in Sweden
<b>16:50</b>	<b>Herbert Griebbach</b> Renovation of existing buildings to the Passive House standard - Lorettostraße Freiburg	<b>Werner Haase</b> Comprehensive renovation of the Baiersdorf elementary school using Passive House components - a largely solar-heated school	<b>Erich Maurer</b> Research project: EnergieRegion Factor 10	<b>Colin Porteous</b> Problems of the Scottish / UK Building Industry vs. Energy-Efficient New-Build Passive Housing
<b>17:10</b>	<b>Ludwig Rongen</b> Innovative architecture and the Passive House	<b>Stephan Heinrich</b> Construction of the new Gebhard Müller School in Biberach – monitoring and operational results	<b>Michael Pertl</b> ökosan - the Oststeiermark modernisation initiative	<b>Jürgen Schnieders</b> Heat Load Calculations and Passive House Requirements in Northwest European Climates
<b>17:30</b>	<b>Heinz Neudeck-Mützel</b> The Open House concept - flexible design in Passive apartment buildings	<b>Joachim Zander</b> Room acoustics in a Passive House school	<b>Günter Lang</b> Successfully networking the Passive House	<b>Tor Helge Dokka</b> Passive Houses in Cold Norwegian Climate
<b>17:50</b>	<b>Ernst Heiduk</b> Architectural classics of the modern style to PH standard	<b>Volker Weiß</b> Practical experience of the Passive House school in Waldshut	<b>Martin Sambale</b> Advice - partnering - implementation. Large scale implementation in the Allgäu	<b>Jürgen Schnieders</b> Passive Dwellings in Marseille? A Concept Study

**20:00 Evening event** (reservation must be made in advance)

# Conference Programme, Saturday 20 May 2006

**08:45 Plenary session: Henk Kaan:** Passive House worldwide: international developments  
**09:15 Rainer Pfluger:** Comfortable ventilation in the Passive House: the state of the art  
**09:45 Burkhard Schulze Darup:** Passive House components - strategies for the broad implementation in building modernisation

	<b>Kuppelsaal</b> <b>Working group 9:</b> <b>Project examples</b>	<b>Roter Saal</b> <b>Working group 10: Experience gained</b> <b>with Passive House components in</b> <b>modernisation projects</b>	<b>Blauer Saal</b> <b>Working group 11:</b> <b>News from research and development /</b> <b>building components</b>	<b>Bonatz Saal</b> <b>Working Group 12:</b> <b>How to design a</b> <b>Passive House in a specific climate</b>
<b>10:30</b>	<b>Thomas Kirtschig, Axel Bretzke</b> The Passive House elementary school in the Preungesheim district of Frankfurt	<b>Matthias von Oesen</b> Comparison of Factor 10 modernisation projects with different concepts from Hanover	<b>Reto P. Miloni</b> Optimisation of daylighting and solar screening in the Passive House	<b>Barbara Faigle</b> Can you make a Passive House out of it?
<b>10:50</b>	<b>Andreas Baumgartner</b> Zero energy annual balance	<b>A. Zaman, W. Krämer</b> Passive House renovation of an existing building, Hoheloostraße 1-3, Ludwigshafen am Rhein – first results	<b>Ursula Schneider</b> Green light	<b>York Ostermeyer</b> Passive Houses in Japan
<b>11:10</b>	<b>Martin Forstner</b> Workshop report on a vacuum-insulated zero-energy house in modular construction	<b>Martin Endhardt</b> A Passive House on historical foundations	<b>Tobias Waltjen</b> IBO Passive House building components catalogue - ecologically evaluated designs	<b>David Stecher</b> Passive House Cooling in North America
<b>11:30</b>	<b>Markus Treiber</b> A modern office building with energy-saving HVAC technology in combination with geothermal generation for heating and cooling	<b>Reinhard Weiss</b> I'm not stupid - renovation to the Passive House standard is economically viable	<b>Johannes May</b> Composite timber and concrete elements „Passive House in 6 weeks“	<b>Zhenhong Gu</b> Comparison of Two Methods of Energy Efficient Houses: Implemental Discussion in China
<b>11:50</b>	<b>Walter Braun</b> lu-teco - an office building as a Passive House	<b>Witta Ebel</b> Sustainable energy-related renovation in the German state of Hesse	<b>Sören Peper</b> The Stairwell in multi-storey Passive House	<b>Rossano Albatoci</b> Human Comfort Conditions inside Wooden Passive and Bioclimatic Houses
<b>12:30 Lunch</b>				
	<b>Working group 13: News from research</b> <b>and development / materials technology</b>	<b>Working group 14: Implementation in the</b> <b>regions and in the local municipalities</b>	<b>Working group 15: Architecture and the</b> <b>Passive House</b>	<b>Working Group 16:</b> <b>Innovative Constructions and Projects</b>
<b>14:00</b>	<b>Rainer Pfluger</b> Solutions for damp protection in internal insulation	<b>A. Berndgen-Kaiser, T. Frey</b> Evaluation of 150 Passive Houses in North-Rhine Westphalia	<b>Dietrich Schwarz</b> From solar house to solar city	<b>Tonny Skjernø</b> The Passivehouse Window that Opens to the Outside
<b>14:20</b>	<b>Adrian Tschui</b> Passive Houses and indoor air humidity	<b>Kerstin Walberg</b> Hamburg and the Passive House	<b>Martin Wamsler</b> A village sees red	<b>Henrik Tommerup</b> Innovative Danish Building Envelope Components for Passive Houses
<b>14:40</b>	<b>A. Külich, M. Buchholz</b> Estimation of thermal-bridges in the energy-related renovation of existing buildings using Passive House components	<b>Peter-M. Friemert</b> Solar Construction Exhibition, Hamburg 2005	<b>Rainer Wildmann</b> Implementation of Passive House concepts in existing buildings	<b>Jan Tywoniak</b> Optimized Design Concept for 13 Passive Houses in Koberovy (CZ)
<b>15:00</b>	<b>Marc Großklos</b> Thermal-bridges in prefabricated elements with vacuum- insulation for use in the renovation of existing buildings	<b>H. Wurzer, H. Bruckner</b> The Großschönau sustainable community	<b>Fritz Oetli</b> OLD house ?	<b>Anneleen Lagae</b> Passive Housing in the Dutch Social Housing Tradition
<b>15:20</b>	<b>Christof Stölzel</b> Safe VIP design and construction processes with Qasa	<b>Roland Matzig</b> Lessons gained from implementation involving 100 Passive House projects	<b>Olaf Reiter</b> Playing in the Passive House. A wood-and- loam structure for children	<b>Marco Bonomi</b> PLAN B.I.R.D.- Housing and Multifunctional Centre for Elderly People in Brescia, Italy
<b>16:00 Coffee break</b>				
<b>16:30</b> <b>17:00</b>	<b>Plenary session: Wolfgang Feist, Helmut Krapmeier</b> Creating Perspectives through Energy Efficiency End of the conference			

## Registrationform

### REGISTRATION

Registration for participation at the 10<sup>th</sup> international Passive House conference 19 - 20 May 2006

Name, first name: \_\_\_\_\_

Company/institution/authority: \_\_\_\_\_

Street: \_\_\_\_\_

State code/postal code/town: \_\_\_\_\_

Phone/fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

#### PLEASE TICK:

- ☐ Participation Friday and Saturday 19 and 20 May 2006
- ☐ Participation only on Friday 19 May 2006
- ☐ Participation only on Saturday 20 May 2006

☐ Participation in the evening event Friday 19 May 2006

☐ Participation in the excursion, Sunday 21 May 2006  
**Tour 1** (8.30-17.00)

☐ Participation in the excursion, Sunday 21 May 2006  
**Tour 2** (8.30-17.00)

☐ Participation in the excursion, Sunday 21 May 2006  
**Tour 3** (8.30-14.00)  
(for details of the tours see the reverse side)

- ☐ Member of the IG Passive House
- ☐ Speaker selected by the conference advisory board
- ☐ Student – copy of the student ID card enclosed
- ☐ Registration and payment carried out before 20.03.2006

The participation fee is \_\_\_\_\_ € (invoice will be served)

I hereby acknowledge and accept the business terms and conditions overleaf of the Passive House Institute for the 10th Passive House Conference 2006. The liability of the organiser is limited to the participation fee paid.

**I HEREBY REGISTER FOR THE 10<sup>TH</sup> PASSIVE HOUSE CONFERENCE ON 19/20.05.06 IN HANOVER.**

Place, date: \_\_\_\_\_

Signature: \_\_\_\_\_