

Organisers of the 16th International Passive House Conference:



Patronage:

Dr. Peter Ramsauer  
Federal Minister of Transport,  
Building and Urban Development



Federal Ministry  
of Transport, Building  
and Urban Development

» **Registration by post to:**  
Passive House Institute  
Rheinstraße 44/46 | 64283 Darmstadt | Germany

» **Online registration at:**  
www.passivehouseconference.org

» **2012 Conference schedule**

2 May 2012	Passive House Basics Course at the Hannover University of Applied Sciences and Arts, Ricklinger Stadtweg 118
3 May 2012	Passive House components across the globe manufacturers' exchange at the HCC
4 - 5 May 2012	16th International Passive House Conference and Exhibition at the HCC
6 May 2012	Passive House Excursions, meeting point: HCC

» **Conference languages: German and English**  
Simultaneous translation into English will be provided at all German language sessions.

Supported by:



» **Conference: Friday and Saturday, 4 and 5 May 2012**

<b>Early booking rate</b> (by 4 March 2012):	€530
Regular rate:	€650
Speaker rate:	€190
Poster presenter rate:	€360
(Only one speaker/poster presenter discount will be granted for each accepted oral and/or poster contribution.)	
iPHA members and affiliates discount:	€60
Student discount:	50 %
(Full-time students only; copy of valid student ID must be enclosed with registration.)	

» **One-day conference participation**

<b>Early booking rate</b> (by 4 March 2012):	€390
Regular rate:	€480
iPHA members and affiliates discount:	€30
(Please note that no further discount is possible for speakers or poster presenters participating on just one day.)	

» **Further offers:**

<b>5 Day iPHA Special</b> (offer good through 4 March 2012)	€789
This special package is available to iPHA members only. Includes Passive House Basics Course, 2 May   Passive House components across the globe manufacturers' exchange, 3 May   International Passive House Conference, 4 and 5 May   Evening Event, 4 May   Passive House Excursion, 6 May	

**Passive House Basics Course**, Hannover University of Applied Science and Arts: Wednesday, 2 May 2012, 9am - 5pm

Regular rate:	€600
Conference participants rate:	€300
iPHA members and affiliates/student discount:	€150
(The number of participants is restricted.)	

**Passive House components across the globe** (manufacturers' exchange), Thursday, 3 May 2012, 10am - 6pm

Conference participants rate	€50
This event is free of charge for iPHA members.	

**Evening Event**, Friday, 4 May 2012, 8pm, Hannover 96 Arena, entrance "Eingang OST", tram stop "Stadionbrücke"

Dinner plus stadium tour at the Hannover 96 Arena	€110
iPHA members and affiliates discount:	€15
(The number of participants is restricted.)	

**Passive House excursion**, Sunday, 6 May 2012

Guided tour and lunch:	€95
(For conference participants only; the number of participants is restricted.)	

» All prices include VAT

» **1. Registration**  
Registrations must be either submitted online or by post. Registrations are binding and will be processed in the order in which they are received. The number of participants is limited. After registration, you will receive an invoice. The **early booking** discount can only be granted if both **registration and payment** are completed before **4 March 2012**. Only those who have paid the applicable fees in full will be admitted to the conference. Only cancellations in writing will be accepted. All cancellations before 7 April 2012 will incur a €70 processing fee. No refund will be granted for no-shows and cancellations made after 7 April 2012, but a substitute participant may be named.

» **2. Services**  
The scope of services includes: The conference proceedings complete with conference presentations, lunch, coffee breaks and simultaneous translation into English at all German language sessions. **Conference participants will receive a "kombi-ticket" allowing them to use all public transportation within the City of Hannover from 2-6 May 2012.** The organisers reserve the right to make any necessary changes to the programme.

» **3. Cancellation, restriction of liability**  
In the event that the 16th Passive House Conference or further offers must be cancelled, the participants will be notified immediately and will be reimbursed for the participation fee already paid. The liability of the organisers is limited to reimbursement of the paid participation fee only.

» **4. Scientific conference advisory board**  
Stefan Bär, Hannover (Germany) | Roland Digel, Osnabrück (Germany) | Wolfgang Feist, Innsbruck (Austria) | Harald Halfpaap, Hannover (Germany) | Robert Hastings, Wallisellen (Switzerland) | Olivier Henz, Verviers (Belgium) | Björn Kierulf, Senec (Slovakia) | Helmut Krappmeier, Dornbirn (Austria) | Simone Kreutzer, Växjö (Sweden) | Ljubomir Mišević, Zagreb (Croatia) | Søren Pedersen, Næstved (Denmark) | Rainer Pfluger, Innsbruck (Austria) | Ludwig Rongen, Wassenberg (Germany) | Burkhard Schulze Darup, Nürnberg (Germany) | Rolf-Peter Strauß, Bremen (Germany) | Susanne Theumer, Darmstadt (Germany) | Anke Unverzagt, Hannover (Germany) | Etienne Vekemans, Paris (France) | Mark Zimmermann, Dübendorf (Switzerland)



» **EXCURSION:**  
On Sunday 6 May 2012 participants are welcome to attend one of the tours to visit Passive Houses (new builds and refurbishments). All tours include transfer, on-site tours, translation into English, lunch and are possible for Conference participants only.  
**Meeting point: HCC**

**TOUR 1 | zero:e park zero emission housing estate | 9.00am - 2.30pm**  
Construction site | New builds, single family homes

**TOUR 2 | Hannover Nordstadt | 9.00am - 1.00pm**  
Retrofit of two apartment blocks | New builds, apartment blocks

**TOUR 3 | Office, school and residential building | 9.00am - 3.00pm**  
Energy plus new build, school | Renovation, office building

**TOUR 4 | Large non-residential building – New build and retrofit | 9.00am - 3.00pm**  
New build, gymnasium and sports boarding school | New build, office building | Office building retrofit

**TOUR 5 | Hannover Linden | 9.00am - 3.30pm**  
New build, kindergarten | New build, apartment block and kindergarten | New build, gymnasium and sports boarding school

**TOUR 6 | Senior centre – family centre and kindergarten | 9.00am - 3.30pm**  
New build, retirement home | New build, family centre | New build, apartment block and kindergarten

**TOUR 7 | Learning, living and working | 9.00 am - 4.00pm**  
New build, primary school | Exhibition hall retrofit | Apartment block renovation | End terrace house modernisation

**TOUR 8 | Public buildings in Löhne | 9.00am - 5.00pm**  
City hall renovation | School retrofit  
(The number of participants is limited)

» **Cultural programme:**  
Conference participants can attend these tours free of charge. Email registration required prior to 7 April: tagung@passiv.de

**Saturday, 5 May 2012 |**  
City Hectic and History – get to know Hannover | 7.30pm to 9.00pm

**Sunday, 6 May 2012 |**  
Great Gardens and Glittering Grotto | 10.00am to 11.30am

**Sunday, 6 May 2012 |**  
Hannover Central Station | 10.00am to 12.00am

» **2012 Passive House Exhibition**  
Passive House components provide maximum comfort with minimum energy costs in new builds and refurbishments alike. Whether you want insulation materials, windows or ventilation systems with heat recovery – all leading manufacturers of Passive House components will be represented at the accompanying specialist exhibition. Here you will find first-class advice, information materials, illustrative models and experts happy to answer your questions. In parallel, a lecture series will provide visitors with additional Passive House insights.  
Admission to the exhibition is free for all visitors!

Date: Friday and Saturday, 4 and 5 May 2012  
Venue: Eilenriedehalle of Hannover Congress Centrum HCC  
Theodor-Heuss-Platz 1-3  
30175 Hannover, Germany

Time table:  
4 May 2012, 9.00am - 7.00pm  
5 May 2012, 9.00am - 5.00pm

» **Exhibition Area Themes**

- Insulation, reduction of thermal bridging
- Windows and doors
- Ventilation systems with heat recovery, compact heat pump units, subsoil heat exchangers, stoves and heating systems, solar collectors
- Measuring devices for airtight construction and ventilation techniques, infrared cameras
- Products for ensuring airtightness
- Prefabricated houses and building components
- Contracting businesses, trade associations, architectural and engineering firms, energy consultants, quality control
- Software, specialist literature, advanced training

» **Target groups**  
Architects, designers, engineers, energy consultants, energy suppliers, craftsmen, scientists and researchers, retailers, manufacturers, local authorities, property developers, students

» **To order an information pack for exhibitors please contact:**  
Barbara Löbau | Passive House Institute  
Anichstr. 29/54 | 6020 Innsbruck, Austria  
Tel.: +43 (0) 512-570768 | Email: barbara.loebau@phi-ibk.at

**Photo credits:**  
Frontpage: Torhaus Gilde-Carré, Hannover, Gerd Nord, Lindener Baukontor | A: Torhaus Gilde-Carré, Hannover, Gerd Nord, Lindener Baukontor | B: Grundschule In der Steinbreite, Hannover, Schröder Architekten BDA © all 3 photos: Frank Ausseier



## Programme of the Passive House Conference 2012

and Exhibition  
Hannover Congress Centrum HCC

**Passive House Basics Course**  
Wednesday, 2 May 2012

**Passive House components across the globe**  
Thursday, 3 May 2012

**Conference and Exhibition**  
Friday and Saturday, 4 and 5 May 2012

**Excursion**  
Sunday, 6 May 2012



## REGISTRATION

- » Easy: Online registration at [www.passivehouseconference.org](http://www.passivehouseconference.org)
- » Or: Use following registration form for **participation in the 16th International Passive House Conference**, 4 and 5 May 2012

### » Please check your participation status:

Early booking (registration and payment before 4 March 2012)

iPHA members and affiliates

Speaker accepted by the conference advisory board

Student (copy of student ID enclosed)

### » Please check your participation preferences:

**Both** Friday and Saturday, 4 and 5 May 2012

Friday, 4 May 2012 **only**

Saturday, 5 May 2012 **only**

### » Further offers:

**5 Day iPHA Special** (offer good through 4 March 2012), including excursion No \_\_\_\_\_ in German  in English

Passive House Basics Course, Wednesday, 2 May 2012, Hannover University of Applied Sciences and Arts (the number of participants is restricted)

Passive House components across the globe, Thursday, 3 May 2012

Evening Event, Friday 4 May 2012

Passive House excursion, Sunday, 6 May 2012, Tour No \_\_\_\_\_\*

in German  in English

\*(Only for registered participants of the conference)

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

Family name, Given name: \_\_\_\_\_

Company/Organisation/Institution/Authority: \_\_\_\_\_

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

City and postal code: \_\_\_\_\_

Phone/Fax: \_\_\_\_\_

Email: \_\_\_\_\_

I hereby acknowledge and accept the terms and conditions as outlined in this flyer for the 16th Passive House Conference 2012 and side events. I also understand that the liability of the organiser is limited to the participation fee paid.

Please accept my registration for the 16th Passive House Conference and side events, to be held in Hannover, Germany from 2 - 6 May 2012. I am aware that my registration is binding.

City, Date: \_\_\_\_\_

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

PLEASE PRINT

## PASSIVE HOUSE CONFERENCE

### » Passive House: Driving innovation worldwide

Inspired by this theme, Passive House stakeholders from around the globe will gather in Hannover, Germany, for the upcoming International Passive House Conference, to be held in May 2012. The International Passive House Conference as the leading event for energy efficient construction will strengthen markets, promote communication and inspire practical examples. Organised by proKlima and the Passive House Institute, this truly global event will provide a forum for exchange for participants from around the world. Reaching out to the entire range of construction professionals and the general public alike, the 5 day framework programme will encompass a variety of sub-events including world class plenary sessions, expert and craftsmen forums, courses for Passive House newcomers as well as an exhibition featuring a variety of energy efficient components and solutions. These events are then to be rounded off by excursions, allowing visitors to get first hand experience with real Passive House buildings.

### » Passive House Basics Course, Wednesday, 2 May 2012

This full-day course is ideal for both first time Conference participants and for all those wishing to refresh their Passive House knowledge. Passive House essentials will be covered by prominent Passive House experts, including Wolfgang Feist himself. The adaptation of building components and their implementation to suit climatic conditions will be the main focus during this day, and a ten-minute frame has been set aside after each presentation to answer your questions. Start this third decade of the Passive House Standard by letting Passive House Basics bring you up to speed.

### » New: Passive House components across the globe, manufacturer's exchange, Thursday, 3 May 2012

A wide variety of Certified Passive House Components are readily available in the German-speaking world. This workshop aims to increase the availability of such components in regions that are newer to Passive House by encouraging cooperative efforts between manufacturers on certifiable components ideally suited to the climatic conditions of these newer regions. For programme details on this workshop, put on by the Passive House Institute in cooperation with the exhibitors of the Passive House component exhibition, please visit:

[www.passivehouseconference.org](http://www.passivehouseconference.org)

## PROGRAMME FRIDAY, 04 MAY 2012

### PLENARY SESSION

9:30 Opening remarks by Stephan Weil, Lord Mayor of the City of Hannover and Harald Noske, Technical Director of enerCity (Stadtwerke Hannover AG)

Greeting by representatives of the German Federal Government and the European Union

10:00 Ernst Ulrich von Weizsäcker | Profitable Green Technologies Can Break the Impasse at Climate Talks

10:45 Wolfgang Feist | Passive House Conference 2012: Climate – Culture – Concept

11:15 Tour of the Passive House Exhibition

12:00	LUNCH			
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	<b>Kuppelsaal</b>	<b>Niedersachsenhalle B</b>	<b>Niedersachsenhalle A</b>	<b>Blauer Saal</b>
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	Session I: Refurbishments: Examples and components	Session II: Ventilation: Experience and optimization	Session III: Cold climates	Session IV: A Passive House to fit in a specific region
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13:30	Burkhard Schulze Darup   Strategies for climate neutrality with existing buildings – a case study of Nuremberg	Søren Peper, Rainer Pfluger   Air-quality and ventilation behavior	Wolfgang Hasper   Passive Houses in cold climates	Sebastian Moreno-Vacca   Passive House and high design architecture
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13:55	Tanja Schulz   EnerPHit insulation system	Werner Hässig   Compact building service units in residential complexes: Measurements and experience	Carly Coulson   NewenHouse: Cost effective, sustainable, healthy, Passive House Kit Home for cold climates	Thibaut Hermans   Brussels 2007-2011: From 0 to 140 000 m <sup>2</sup> of Passive Buildings. How is it possible?
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14:20	Dietmar Kraus   Passive House renovation of small rural schools	Bernd Krauß   Lustenau Wiesenrain Complex: New control components provide utmost ventilation efficiency	Alexander Pearson   Defining the energy efficiency design envelope for regional Scottish Passivhaus dwellings	Bronwyn Barry, Kristen Simmons   Evolution of the grassroots Passive House community in the US – a tale of four regions
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14:45	Franz Freundorfer   Passive House windows of energy efficiency class A in heritage buildings	Oliver Kah   Optimizing drive energy for ventilation based on demand	Tommy Wesslund, Simone Kreuzer   Passive House tennis hall – Stefan Edberg promotes active climate protection in Sweden	Andrew Simmonds   EnerPHit UK case study: Lessons for UK Green Deal Programme
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15:10	COFFEE BREAK			
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	Session V: Non-residential buildings	Session VI: Lighthouse regions show the way	Session VII: Costs and cost efficiency	Session VIII: Expert discussion
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15:45	Michael Felkner   AlpSeeHaus – Sustainability and energy conservation in a case study of a natural park building	Meinhard Hansen   How to convince a municipality about Passive Houses	Jonah Stanford   Breaking the cost barrier	<b>The future of energy efficiency: Passive House, Nearly Zero Energy Building, Green Building</b>  Peter Henicke Eike Musall Nick Grant Benjamin Krick Shane Colclough Fabian Ochs Jan Tywoniak Christoph Thiel  Short presentations of the experts and discussion among the experts and with the audience.
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16:10	Carsten Grobe   Non-residential buildings as affordable plus-energy buildings	Estelle Wüsten   The Passive House Standard in the City of Frankfurt – Experience in planning and management	Adam J. Cohen   Realizing full potential in the US Commercial Passivhaus makes sense (dollars and cents)!
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16:35	Florian Berner   Values and tools	Peter-M. Friemert   Passive House certification and quality assurance: Market insights in Hamburg	Ljubomir Mišević   The first ten realizations of Passive Houses in Croatia – experience in design, construction and financing
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17:00	Dieter Herz   Passive hotels – a success story	Stefan Großhans   Experience in building Passive Houses in state-owned buildings	Nick Newmann   A line by line cost comparison between a Passive House and a house built to comply with current UK building regulations
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17:25	Axel Bretzke   Greater quality from simplicity in Passive Houses	Annette Bähr, Bianca Grubbel   Passive House Standard in public-private partnership (PPP) projects	Jonathan Hines   Delivering the UK's first Passivhaus schools at no extra cost
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20:00	Evening Event (reservation must be made in advance)			
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## PROGRAMME FRIDAY, 04 MAY 2012

## PROGRAMME SATURDAY, 05 MAY 2012

### PLENARY SESSION

8:45 Marianne Fujara | PassREg – Regions lead the way towards EU climate goals

9:15 Jürgen Schnieders, Benjamin Krick, Tanja Schulz and Rainer Pfluger | Special considerations when building Passive Houses in various climate zones

	<b>Kuppelsaal</b>	<b>Niedersachsenhalle B</b>	<b>Niedersachsenhalle A</b>	<b>Blauer Saal</b>
	Session IX: Passive House renovations	Session X: Timber or solid construction – both are possible!	Session XI: Warm and hot climates	Session XII: Tools for planning Passive Houses
10:15	Martin Brunn   From old buildings to Plus-Energy Buildings	Stefan Oehler   Climate-neutral residential buildings	Susanne Theumer   Passive Houses in warm climates	S. Kurtze, U. Imkeller-Benjes   Design of Plus Energy Buildings based on PHPP
10:40	Herwig Ronacher   Metamorphosis of an historic farmhouse to a Passive House and a Plus-Energy house	Stefanie von Heeren   Hybrid construction in single-family homes	Silvia Prieto, Josep Bunyesc   Passive House in a Mediterranean climate	Kristian Henriksen   Integrating PHPP with BIM
11:05	Bernd Steinmüller   Bringing the Passive House standard down to zero in a City Hall renovation: Will it pay for itself in the long run?	Gerrit Horn   Inexpensive timbered structures for Passive Houses	Fritz Oettl   The green Austrian Embassy in Indonesia	Erik Röthele   Energy consulting with the PHPP
11:30	Alexander Küllich   Residential comfort, ventilation, and building physics – Passive House renovation of a terminal row house	Dietmar Waldeck   Multi-story timbered residential Passive House	Berthold Kaufmann   A Passive House for hot and humid Southern China	Ernst Heiduk   Methodology for a software tool to integrate erection and lifecycle costs in architectural competitions
11:55	Sebastian Ludwig, Lars Kühl   AS Solar, Hannover – existing plus-energy industrial building	Werner Friedl   Practical designs with functionally separate building subcomponents in solid construction	Irene Ott Reinisch   Climatic conditions and options for Passive House Technology in Bhutan, Himalaya, Asia	Miwa Mori   PHPP linked to a CAD system
12:30	LUNCH			

	Session XIII: Non-residential buildings: schools and hospitals	Session XIV: Ventilation and airtightness	Session XV: Retrofits	Session XVI: Projects, materials and components
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13:45	Ingo Lütkemeyer   Sustainable school buildings with a future	Kristin Bräunlich   Energy assessments of large ventilation systems – the first findings from certification	Justin Bere   Design, construction and actual performance of a Community Centre in London, refurbished to the Passivhaus standard	Shane Colclough   One Passivhaus search for zero carbon
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14:10	Ute Michel, Markus Behme   Sustainability criteria and a study of different heat delivery methods in a sports boardingschool	Helmut Schöberl   Negative maintenance costs	Mary James   Deep energy retrofits in the San Francisco Bay Area: Measuring Success	Bokyung Jun   From nothing to zero – Passive House in Korea
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14:35	Alan Clarke   Passivhaus school kitchens	Oliver Kah   Infiltration and heat losses in highly frequented entrance areas	Ji-won Seo   The methods for Passive Renovation, suitable for Korean apartments	Björn Kierulf   PH with prefabricated straw bale panels
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15:00	Ludwig Rongen   New building at the LVR Psychiatric Outpatient Clinics in Köln-Chorweiler	Søren Peper   Inserting the ends of wooden beams in the airtight layer	Robert Cohen   C80 retrofit: Measuring is believing	Szymon Firląg   Airtightness of Polish passive and very low-energy buildings – measurement results
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15:25	Roland Schumacher   Passive House hospitals – boundary conditions for the design	Wilfried Walther   Strategies for the planning and implementation of airtightness on existing sloped roofs	Julie Willem, Sebastian Moreno-Vacca   Experience in non-residential building renovations in Brussels and 'Real' zero energy	Antoni Kostka   New generation of windows: Linear thermal bridge-reduced frames and convection-free insulated glazing
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15:50	COFFEE BREAK			Subject to alterations
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### PLENARY SESSION

16:15 Wolfgang Feist | Passive Houses – the practical way to sustainable building

17:00 End of event

## PROGRAMME SATURDAY, 05 MAY 2012