Hessisches Ministerium für

Umwelt, Energie, Landwirtschaft und Verbraucherschutz

# Patronage:

# Lucia Puttrich

Minister of the Environment, Energy, Agriculture, and Consumer Protection for the State of Hesse



Passive House Institute | Rheinstraße 44/46 64283 Darmstadt | Germany

### » Online registration:

www.passivehouseconference.org

### » 2013 Conference schedule

17 April 2013 Passive House Basics Course | University

of Applied Sciences Frankfurt

Passive House Components Workshop | 18 April 2013 **Congress Frankfurt** 

19-20 April 2013 17th International Passive House Conference

and Exhibition | Congress Frankfurt

PASSIVE HOUSE

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21 April 2013 Passive House Excursions

# » Conference languages: German and English Simultaneous translation into English will be provided at

all German language sessions.

Supported by:





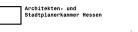








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# » Conference: Friday and Saturday, 19 and 20 April 2013 Early booking rate (by 15 February 2013):

€650 Regular rate: Speaker rate: €190 €360 Poster presenter rate: (Only one speaker/poster presenter discount will be granted for each accepted oral and/or poster contribution) Student discount: (Full-time students only; copy of valid student ID must be enclosed with

# » One-day conference participation

Early booking rate (by 15 February 2013): €390 €480 Regular rate: (Please note that no speaker/poster presenter discount is available for one-day conference participation)

# » Evening Event: Friday, 19 April 2013

Buffet dinner (drinks included) Community Centre "SAALBAU Bornheim" €89 (space limited)

### » Passive House Excursion: Sunday, 21 April Guided tour:

(For conference participants only; space limited)

# iPHA and iPHA Affiliate members receive a 10% discount on all prices listed above.

### » Passive House Basics Course. Wednesday, 17 April, 9am - 5pm

€400 Regular rate: €300 Conference participants rate: iPHA and iPHA Affiliate member discount/Student discount: **50%** 

# » Passive House Componets Workshop, Thursday, 18 April, 10:30am - 5pm

Conference participants rate: €79 iPHA discount/Student discount:

# » 5 Day iPHA Special (offer good through 15 February)

Includes the Passive House Basics Course | Passive House Components Workshop | International Passive House Conference | Evening Event | Passive House Excursion

€789 This special package is available to iPHA members only.

» 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 15 February 2013. 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 15 March 2013 will incur a €70 processing fee. No refund will be granted for no-shows and cancellations made after 15 March 2013, but a substitute participant may be named.

#### » 2. Services

€95

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. The organisers reserve the right to make any necessary changes to the programme. Conference participants will receive a RMV-Kongressticket allowing them to use all public transportation within the City of Frankfurt (incl. Airport) from 18-21 April 2013. FM

# » 3. Cancellation, restriction of liability

In the event that the 17th Passive House Conference or any part of the framework programme must be cancelled, the participants will be notified immediately and will be reimbursed any participation fees already paid. The liability of the organisers is limited to reimbursement of the paid participation fee only.

# » 4. Conference scientific advisory board

Sabine Djahanschah, Osnabrück (Germany) | Wolfgang Feist, Innsbruck (Austria) | Esther Gollwitzer, Darmstadt (Germany) | Harald Halfpaap, Hanover (Germany) | Robert Hastings, Wallisellen (Switzerland) | Olivier Henz, Verviers (Belgium) | Biörn Kierulf, Senec (Slovakia) | Helmut Krapmeier, Dornbirn (Austria) | Simone Kreutzer, Växiö (Sweden) | Ljubomir Miščević, Zagreb (Croatia) | Werner Neumann, Frankfurt (Germany) | Søren Pedersen, Næstved (Denmark) | Rainer Pfluger, Innsbruck (Austria) | Ludwig Rongen, Wassenberg (Germany) | Burkhard Schulze Darup, Nuremberg (Germany) | Rolf-Peter Strauß, Bremen (Germany) | Anke Unverzagt, Hanover (Germany) | Bernd Utesch, Frankfurt (Germany) | Etienne Vekemans, Paris (France) | Estelle Wüsten, Frankfurt (Germany) | Mark Zimmermann, Dübendorf (Switzerland)

#### » Excursions

On Sunday, 21 April 2013, participants are welcome to attend one of the tours to visit Passive House buildings, both new builds and refurbishments. All tours include transfer, on-site tours, translation into English and lunch. Bookings possible for Conference participants only.

**EXCURSIONS ON SUNDAY | 21 APRIL 2013** 

Meeting point: Messe Frankfurt, Congress Center, Entrance Ludwig-Erhard-Anlage. Unless otherwise stated, all tours end at the Frankfurt Main Station, (space limited)

# TOUR 1 | Non-residential buildings in brief | 9am - 3.00pm

School cafeteria (new build) | Kindergarten (new build) | School under construction (retrofit/new build)

# TOUR 2 | Frankfurt city centre in brief | 9am - 2.30pm

Exhibition of Passive House build-ups | Residence and office building (new build) | Apartment building (retrofit)

# TOUR 3 | Frankfurt - Riedberg | 9am - 3.30pm

Gymnasium (new build) | Apartment building (new build) | 16,000m<sup>2</sup> School campus (new build)

# TOUR 4 | Large Passive House buildings | 9am - 5.00pm

27,000m<sup>2</sup> office and research building complex under construction (new build) | 16,000m<sup>2</sup> School campus (new build) | office building (new build) TOUR 5 | City centre living | 9am - 3.30pm

Social housing block (new build) | Apartment building (retrofit) | Single family home (new build) | terraced houses (new build)

# TOUR 6 | Urban planning challenge | 9am - 4.30pm

Apartment building (retrofit) | 7,000m<sup>2</sup> school campus and day care (new build) | terraced houses (new build) | Single family home (new build)

### TOUR 7 | Frankfurt non-residential buildings | 9am - 4.30pm Fire station (new build) | School under construction (new build/retrofit) |

7,000m<sup>2</sup> school campus and day care (new build) | Office building (new build) TOUR 8 | Darmstadt | 9am - 4.30pm

Office building (retrofit) | Residence and office building (new build/retrofit) | Apartment building under construction (new build) | terraced houses under construction (new build)

**Г⊔**П Stadt

Heidelberg

TOUR 9 | Heidelberg Bahnstadt Passive House district | 8.30am - 5.00pm Urban district with office and laboratory building | Townhouses | Student residence hall | Building supply store (all new build)

Those who would like to end this tour early may do so at 3:30pm at the Heidelberg Main Station

### » Cultural programme

Conference participants can attend the following tours free of charge. Email registration required prior to 7 April: tagung@passiv.de

Saturday, 20 April 2013 | Frankfurts' highlights, both historical and modern | 7.30-9pm

Sunday, 21 April 2013 | An architectural and urban planning journey through time | 10-12am (Tours subject to change)

#### » 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 – 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.

Friday and Saturday, 19 and 20 April 2013

Halle 5.0 Messe Frankfurt

Ludwig-Erhard-Anlage Entrance 60327 Frankfurt am Main, Germany

19 April 2013, 9.00am - 7.00pm 20 April 2013, 9.00am - 5.00pm

### » Exhibition themes

- Insulation
- Windows and doors
- · Ventilation systems with heat recovery, compact heat pumps, subsoil heat exchangers, stoves and heating systems, solar collectors
- · Measuring devices for airtight construction and ventilation techniques, infrared cameras
- Products for ensuring airtightness
- · Prefabricated buildings and building components
- · Contracting businesses, trade associations, architectural and engineering firms, energy consultants, quality assurors
- · Software, specialist literature, advanced training
- · Renewables for Passive House

# » Target groups

Architects, designers, engineers, energy consultants, energy suppliers, craftspeople, scientists and researchers, retailers, manufacturers, local authorities, property developers, students

# » To order an exhibitors info pack please contact:

Barbara Löbau | Passive House Institute Anichstr. 29/54, 6020 Innsbruck, Austria Tel.: +43 (0)512 570768 Email: barbara.loebau@phi-ibk.at



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# **Programme of the** Passive House Conference 2013

and Exhibition Congress Frankfurt | Frankfurt am Main

Passive House Basics Course Wednesday, 17 April 2013

**Passive House Components Workshop** Thursday, 18 April 2013

Conference and Exhibition Friday and Saturday, 19 and 20 April 2013

# **Excursions**

Sunday, 21 April 2013









REGISTRATION	PASSIVE HOUSE CONFERENCE	FRIDAY PROGRAMME   19 APRIL 2013		FRIDAY PROGRAMME   19 APRIL 2013		PR	OGRAMME SATURDAY	20 APRIL 2013	PROGRAMME SATURDAY   20 APRIL 2013	
<ul> <li>Online registration at www.passivehouseconference.org</li> <li>Registration form for the 17th International Passive House Conference, 19 and 20 April 2013</li> <li>Please check your participation status:</li> <li>Early booking (registration and payment before 15 February 2013)</li> </ul>	<ul> <li>Passive House – a solid foundation for the energy revolution</li> <li>All too often, discussions about energy run more along the lines of "nuclear or coal", thus bypassing potential sustainable solutions. The approach to today's energy questions must instead focus on energy</li> </ul>	PLENARY SESSION   Harmony Hall  9:15 Opening remarks: Lucia Puttrich, Minister of the Environment, Energy, Agriculture, and Consumer Protection for the SC City of Frankfurt   Thomas Schäfer, Minister of Finance for the State of Hesse   Barbara Ettinger-Brinckmann, Presiden and Urban Planners Hessen   Representative of the Chamber of Trades Rhein Main  10:00 Frank Junker   Experience from more than 1,500 Passive House apartments  10:45 Wolfgang Feist   Passive House efficiency makes the energy revolution affordable  11:15 Tour of exhibition   Hall 5					PLENARY SESSION   Harmony Hall  8:45 Opening remark: Gordon Sutherland, Intelligent Energy Europe (IEE) Senior Project Officer for Energy efficiency in buildings, industry, equipment and transport   Towards nearly zero-energy buildings: the European path till 2020  9:15 James Scott Brew   Reinventing Fire: Passivhaus role in bold solutions to get one nation off coal and oil by 2050  9.45 Helmut Krapmeier   Austrian State Prize Architecture and Sustainability  Harmonie Hall   level C2   Illusion Hall   level C3   Fantasy Hall   level C3   Spektrum Hall   level C2			
O iPHA and iPHA Affiliate member	efficiency and renewables". For such solutions, Passive House stands	12:00 LUNCH					Session IX: Planning and implementation*	Session X: Sustainable solutions for	Session XI: Hot and Humid Climates	Session XII: Residential and non-residential
Speaker accepted by the scientific advisory board	as the exemplary guiding concept.	Harmonie Hall   level C2	Illusion Hall   level C3	Fantacy Hall I loyol C3	Spektrum Hall   level C2		prementadon	multistory apartment complexes*	(held in English)	Passive House buildings (held in English)
Student (copy of student ID enclosed)  Please check your participation preferences:  Both Friday and Saturday, 19 and 20 April 2013	Passive House presents a reliable, sustainable solution. Passive House buildings use 90% less energy for heating than current building stock (at 165 kWh/(m²a)), meaning that the small remaining energy	Session I: Passive House Capital Frankfurt*	Session II: Global cooperation*	Fantasy Hall   level C3  Session III: 3ENCULT (held in English)	Session IV: Results and Analysis (held in English)	10:30	Ralf Bermich   Urban development with the Passive House Standard – Heidelberg's new Bahnstadt district grows dynamically	Margrit Schaede   Multi-family Passive House units with energy gains	Jessica Grove-Smith   PHPP in hot and humid climates	Tomás O'Leary   Target to deliver 100,000m² Passive House Projects in New York City by 2017
<ul> <li>Friday, 19 April 2013 only</li> <li>Saturday, 20 April 2013 only</li> <li>Further offers:</li> </ul>	demand can be covered economically by a wide variety of stable and sustainable solutions. Renewables, however, are characterised by low energy densities and thus require space, itself often precious and limi-	13:00 Werner Neumann   Frankfurt am Main, Passive House Capital – how can the success story continue?	Thilo Cunz   Building Together (Build- Tog) - Europe-wide adaption of an apartment building design	Alexandra Troi   Solutions & tools for the conservation compatible energy retrofit of historic buildings		11:00	Robert Persch   Quality management system for Heidelberg's Bahnstadt Passive House district	Ludwig Rongen   The Geilenkirchen- Waurichen, Walderych 27 Passive House residential complex	Susanne Theumer   Mexico study: Passive Houses in tropical climates	Adam J. Cohen   Design & Construction of the Malcolm Rosenberg Center for Jewish Life
<ul> <li>Turties offers.</li> <li>5 Day iPHA Special (offer good through 15 February 2013)</li> <li>Passive House Basics Course, Wednesday, 17 April 2013</li> <li>Passive House Components Workshop, Thursday, 18 April 2013</li> </ul>	ted. A sustainable concept must have a strong basis: the Passive House.  ** Framework programme**	13:30 Harald Mathes, Wolfgang Hasper   Passive House for the Hesse State administration	M. Tribus, C. Holzner   A cost comparision of three built Passive House apartment building designs	Rainer Pfluger   Active overflow ventilation for refurbishment of school buildings	Energy Performance Gap	11:30	Burkhard Schulze Darup   DomRömer Frankfurt – a historical monument as a new build	Stefanie und Hans-Dieter Rook	Andreas Gruner   Towards sustainable housing in Mexico	Sebastian Moreno-Vacca   Passivhaus + Breeam with green lease at no extra cost. A myth?
<ul> <li>Evening Event, Friday, 19 April 2013</li> <li>Passive House Excursion, Sunday, 21 April 2013*</li> <li>*(Only for registered participants of the conference)</li> </ul>	Passive House Basics Course, Wednesday, 17 April 2013  This full-day course is ideal for both first time Conference participants and for all those wishing to refresh their Passive House knowledge.	14:00 Wiebke Fiebig, Peter Hufer   Energy retrofit of a Wilhelminian building with Passive House components	·	Ann-Marie Fallon, Joseph Little   Retrofitting Ireland's first EnerPHit house – issues, challenges, solutions	Jelle Langmans   Quantitative study on the hygric response of timber frame walls with exterior air barriers	12:00 NO	Norbert Stärz   Mainzeile apartment building: planning in a challenging fiel – quality, costs, Passive House	Klaus Zeller   Multi-storey apartment	Clare Parry   Multi-use Passive House buildings in humid & hot climates: Jakarta	Hannes Mahlknecht   User habits – impact on energy consumption in Passive Houses
The participation fee: € (invoice will be sent)	Passive House essentials will be covered by prominent Passive House experts, including Wolfgang Feist himself.  The adaptation of building components and their implementation to	14:30 Winfried Naß   Passive House hospitals  — a challenge Frankfurt is pleased to tackle  15:00 1) Buth: Heppenheim administrative centre.	Yoon-Boum Cho   International cooperation between Korea and Germany continues  1) Engelmann: Energy concepts for floating buildings	Frances Bradshaw   Detailing for Passivhau: retrofit in London; terrace houses, solid walls, timber floors and internal insulation 1) Vanaga: Reaching the EnerPHit standard using a holisti	dwelling floor-plan configuration for cascade ventilation	12:30	Krause: Combining a balance-based approach for Passive House planning with simple dynamic building simulation 2) Vallentin: Training towards th Certified Passive House Designer qualification in a	Tribus: How basement insulation can influence to the overall heating energy expenses in a small condominium	White: A Proposed Method for Peak Cooling and Dehumidification Load Calculation for PHs in Humid Climates 2) Gilliland: Case Study: PH Design produces First Certified Net Zero Energy Home in	1) Rossi: Zero energy cooperative building in North Italy 2) Langenkamp: Challenging the possibilities
Family name, Given name:	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	Germany's first Passive House administrative buildin		approach	with different construction methods 2) Ochs: Energetic and Economic Optimization of the Renewable Energy Yield of Multi-Storey PHs	12:45	Passive House design office  LUNCH		California 3) Reddy: Performance evaluation of solar insulation materials in UAE conditions	r 
Company/Organisation/Institution/Authority:	questions. Start this third decade of the Passive House Standard by letting Passive House Basics bring you up to speed.	15:10 COFFEE BREAK	residential buildings		ned of male storey ins	12.43	Session XIII: success in non-residential	Session XIV: Sustainability*	Session XV: Retrofit: Validation of the	Session XVI: Implementing Passive House Standard (held in English)
Street address:	Campus Nibelungenplatz Gebäude 1   FB Architektur Nibelungenplatz 1	Session V: future-proof renovation*  15:45 Sebastian Herkel   Renovating a	Session VI: Energy-efficient building services* Kristin Bräunlich   Ventilation in	Session VII: Passive House Regions (held in English)  Marianne Fujara   PassREg – Supporting of	Session VIII: Passive House around the world (held in English) Paola Leardini   Building Passive Houses	14:15	construction*  Harald Krause   Passive House schools in the City of Offenbach	Gernot Vallentin   Holistically sustainable building concepts – a plus for the Passive House	Potential (held in English)  Lars Ørtoft   A Large Energy Efficient Renovation to Passive House	Virginie Leclercq, Pierre Willem   Brussels- Capital Action Plan for NZEB + Evolution and feedback through "Exemplary Building"
City and postal code:	60318 Frankfurt am Main  University of Applied Sciences	high-rise to the Passive House Standar – a year of operational experience		politicians to decide for Passive House with Renewable Energy	in subtropical climates? A lesson learnt from New Zealand	14:45	Bärbel Steinmann   Day care centres – building services in timbered and solid	Benjamin Krick   Nearly Zero Energy Building? The Passive House provides	Kristen Simmons   Catbird House: the EnerPHit refurbishment of a timber	Markku Hienonen   What public authorities can do to increase energy
	Passive House Components Workshop, Thursday, 18 April 2013	16:15 Florian Lichtblau   Retrofit of a timbere 1958 multi-story residential complex	d Oliver Kah   Energy efficiency in cafeterias and commercial kitchens	Zdravko Genchev   Passive House Regions: A Guide to Success	Georg W. Reinberg   First Certified Passive House in Estonia		construction	an answer	frame two-family in New England	efficiency in new buildings
Phone/Fax:	Over the last several years, Passive House has taken off worldwide, creating a growing and, as of yet, unmet demand for high performance,	16:45 Marc Großklos   Results from the	Tjado Voß   Distributed ventilation:	Carmelo Sapienza   Smart NZEB Passive	László Szekér   Passive Houses in	15:15	Søren Peper   Monitoring the Lünen indoor pool pilot project	Rainer Vallentin   Energy transition and energy sustainability: what the Passive House concept can do 2010-2060	Agris Kamenders   Post-occupancy evaluation of dormitory building with aim of EnerPHit renovation	Tadeja Kovačič   A Slovenian experience: the effects of Eco Fund grants for energy efficiency in buildings
Email:	Certified Passive House Components. This workshop aims to narrow the gap by providing guidance on what it takes to develop Passive House	retrofit of seven multi-family units to the Passive House Standard	Factors that influence energy demand and summer room temperatures	House in Sicily	Hungary	<sub>≥</sub> 15:45	Michael Hörner   The IWU building:	Martin Bauer   Using Passive Houses	Tobias Loga   TABULA – Residential	Art McCormack   Groundbreaking
▶ I hereby acknowledge and accept the terms and conditions as outlined in this pamphlet for the 17th Passive House Conference 2013 and side events. I also understand that the liability of the organiser is limited to the participation fee paid.	Components suited to a wide variety of climatic conditions while informing designers and builders on the latest innovations and technologies.  This interactive event will also serve as a global networking platform,	17:15 Barbara Wörndle   Taylor-made solution for a historical residential building in the center of Bolzano (I)	s Jan Riha   Highly diffusive overhead lights – heat loss versus energy conservation	Anne-Laure Maerckx   Aeropolis II & Elia: Passive buildings showing the (r)evolution of eco-construction in Brussels	João Marcelino   Passive House in Portugal: encouraging its spread in South West Europe	ONTRIBUTIO	modernization with Passive House components – concept, costs, and operational experience	to store non-electric energy in smart grids	Building Typologies in European Countries	Training for Passive House Tradespersons
<ul> <li>▶ Please accept my registration for the 17th Passive House Conference and side events, to be held in Frankfurt am Main, Germany from 17 - 21 April 2013. I am aware that my registration is binding.</li> </ul>	encouraging cooperative efforts between manufacturers on cutting edge, certifiable components.	17:45 Kristin Bräunlich   Measuring moisture buildup in timbered beam ends for renovation with interior insulation		Lorenzo Pagliano   Methodology for design, evaluation and monitoring of zero energy buildings in Mediterranean climate	<u>'</u>	POSTER 2	<ol> <li>Gollwitzer: A comparison of insulation apron solutions 2) Freundorfer: Windows of efficiency clas phA+: an important step towards zero-heating- energy homes?</li> </ol>	Sørnes: Energy efficient timber framed external     walls: Energy and environmental assessment     over the life cycle 2) Miščevič: EU Project ECO- SANDWICH	Little: Managing moisture – the key to healthy internal wall insulation retrofits of solid walls	<ol> <li>Zbasnik-Senegacnik: Seismic safety of Passive Hou- ses founded on thermal insulation 2) Nikolov: Three approaches to the ground insulation in seismically hazardous regions 3) Silkworth: A Multi-Zone Manager for the PHPP</li> </ol>
City, Date: Signature:	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	18:15  1) Böhme: Life in a renovated PH watermill 2) Ronge The Heinsberg Protestant church – renovation, conversion and expansion to the EnerPhit Standard (with interinsulation) 3) Bastian: Factors that influence the energy balance and affordability of non-residential	n: 1) Großklos: Testing new air quality controls with in, VOC sensors for residential ventilation systems or 2) Struckmeier: PH heating with waste heat from computers ("server heater")	Di Pietrantonio: Successful Passive House skyscrapers     O'Donnell: A very Irish Solution	Redon: Lean PH: the key to affordable performance     Kim: A Study on Building Energy Consumption of     the First Passive House in Korea	16:30	PLENARY SESSION   1	•		Subject to alterations
	,	20:00 Evening Event (reservation must be made in advance)		* Session held in German with translation into English			17:00 Wolfgang Feist   Energy concepts 18:00 End of conference	· the Passive House in comparison. Conferral of the Passive House Pioneer Award  * Session held in German with translation into English		