

**17<sup>TH</sup> INTERNATIONAL PASSIVE HOUSE CONFERENCE 2013**



**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



**PLENARY SESSION | Harmony Hall**

9:15 Opening remarks: Mark Weinmeister, State Secretary of the Environment, Energy, Agriculture, and Consumer Protection for the State of Hesse | Olaf Cunitz, Mayor of the City of Frankfurt | Horst Westerfeld, State Secretary of Finance for the State of Hesse | Barbara Ettinger-Brinckmann, President of the Chamber of Architects and Urban Planners Hessen | Dr. Christof Riess, Chamber of Trades Frankfurt-Rhein-Main  
10:00 Frank Junker | Experience from more than 1,600 Passive House apartments  
10:45 Wolfgang Feist | Passive House efficiency makes the energy revolution affordable  
11:15 Tour of exhibition | Hall 5

12:00 LUNCH

	Harmonie Hall   level C2	Illusion Hall   level C3	Fantasy Hall   level C3	Spektrum Hall   level C2
	Session I: Passive House Capital Frankfurt* 	Session II: Global cooperation*	Session III: 3ENCULT (held in English)	Session IV: Results and Analysis (held in English)
13:00	Werner Neumann   Frankfurt am Main, Passive House Capital – how can the success story continue?	Thilo Cunz, Jean-Denis Mège   Building Together (BuildTog) - Europe-wide adaptation of an apartment building design	Alexandra Troi   Solutions & tools for the conservation compatible energy retrofit of historic buildings	Anda Kursisa   Passive House method for industrial buildings
13:30	Harald Mathes, Wolfgang Hasper   Passive House for the Hesse State administration	Michael Tribus, Christoph Holzner   A cost comparison of three built Passive House apartment building designs	Rainer Pfluger   Active overflow ventilation for refurbishment of school buildings	Mark Siddall, John Trinick   Bridging the Energy Performance Gap
14:00	Wiebke Fiebig, Peter Hufer   Energy retrofit of a Wilhelminian building with Passive House components	Michael Klinski   The Norwegian Passive House experience	Ann-Marie Fallon, Joseph Little   Retrofitting Ireland's first EnerPHit building - Issues, challenges and solutions	Jelle Langmans   Quantitative study on the hygric response of timber frame walls with exterior air barriers
14:30	Winfried Naß   Passive House hospitals – a challenge Frankfurt is pleased to tackle	Rena Vallentin   International cooperation between Korea and Germany continues	Frances Bradshaw   Detailing for Passivhaus retrofit in London; terrace houses, solid walls, timber floors and internal insulation	Elisabeth Sibille   Optimization of dwelling floor-plan configuration for cascade ventilation
15:00	1) Buth: Heppenheim administrative centre. Germany's first Passive House administrative building born of the PPP process 2) Amirsamkoei: Application of a particular wind catcher to reduce cooling energy requirement of residential buildings	1) Engemann: Energy concepts for floating buildings 2) Amirsamkoei: Application of a particular wind catcher to reduce cooling energy requirement of residential buildings	1) Vanaga: Reaching the EnerPHit standard using a holistic approach	1) Mader: Life Cycle Assessment results of PH buildings with different construction methods 2) Ochs: Energetic and Economic Optimization of the Renewable Energy Yield of Multi-Storey PHs
15:10	COFFEE BREAK	Session V: future-proof renovation*	Session VI: Energy-efficient building services*	Session VII: Passive House Regions (held in English) 
15:45	Florian Kagerer   Renovating a high-rise to fulfill the Passive House Standard – a year of operational experience	Kristin Bränlich   Ventilation in commercial kitchens	Marianne Fujara   PassReg – Supporting Politicians to create model structures for Passive House with Renewable Energies	Session VIII: Passive House around the world (held in English) Paola Leardini   Building Passive Houses in subtropical climates? A lesson learnt from New Zealand
16:15	Florian Lichtblau   Multi-story residential complex 1958, timbered model renovation	Oliver Kah   Energy efficiency in cafeterias and commercial kitchens	Dragomir Tzanev   Passive House Regions: A guide to success	Georg W. Reinberg, Tõnu Mauring   First certified Passive House in Estonia
16:45	Marc Großklos   Results from the retrofit of seven multi-family units to the Passive House Standard	Tjado Voß, Karsten Voss   The effect of façade-integrated fresh air elements on energy demand and indoor temperatures in the summer	Carmelo Sapienza   Smart NZEB in the Passive House Standard in Sicily	László Székér   Passive Houses in Hungary
17:15	Barbara Würndle, Oscar Stuffer   Taylor-made solutions for a historical residential building in the center of Bolzano (I)	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   The Passive House in Portugal: how to spread it in South West Europe
17:45	Kristin Bränlich   Measuring moisture buildup in timbered beam ends for renovation with interior insulation	Matthias Werner   Influence of retrofitting on daylighting	Lorenzo Pagliano   nZEB coupled with an Earth to Air Heat Exchanger	Ling Guo   Current Development of Passive Houses in China
18:15	1) Böhme: Life in a renovated PH watermill 2) Rongen: The Heinsberg Protestant church – renovation, conversion, and expansion to the EnerPHit Standard (with interior insulation) 3) Bastian: Factors that influence the energy balance and affordability of non-residential EnerPHit projects	1) Großklos: Testing new air quality controls with VOC sensors for residential ventilation systems 2) Struckmeier: PH heating with waste heat from computers („server heater“) 3) Riis Dietz: LED Light in Passive Houses	1) Anne Gerin: Successful Passive House skyscrapers 2) O'Donnell: A very Irish Solution – adapting local techniques for Passivhaus	1) Redon: Lean PH: the key to affordable performance 2) Kim: A study on building energy consumption of the first Passive House in Korea
20:00	Evening Event (reservation must be made in advance)			

POSTER CONTRIBUTION

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\* Session held in German with translation into English

Organisers of the 17th International Passive House Conference:



STADT FRANKFURT AM MAIN

Patronage:

Lucia Puttrich

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



Hessisches Ministerium für Umwelt, Energie, Landwirtschaft und Verbraucherschutz

» Registration by post:

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
- 18 April 2013 Passive House Components Workshop | Congress Frankfurt
- 19-20 April 2013 17th International Passive House Conference and Exhibition | Congress Frankfurt
- 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:



## PLENARY SESSION | Harmony Hall

- 8:45 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 for Architecture and Sustainability

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	Session IX: Planning and implementation*	Session X: Sustainable solutions for multistory apartment complexes*	Session XI: Hot and Humid Climates (held in English)	Session XII: Residential and non-residential Passive House buildings (held in English)
10:30	Ralf Bermich   Urban development with the Passive House Standard – Heidelberg's new Bahnstadt district grows dynamically	Margrit Schaeede   Multi-family Passive House units with energy gains	Jessica Grove-Smith   PHPP calculations in hot and humid climates	Tomás O'Leary   Target to deliver 100,000m <sup>2</sup> Passive House Projects in New York City by 2017
11:00	Robert Persch   Quality management system for Heidelberg's Bahnstadt Passive House district	Ludwig Rongen, Werner Welfers   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
11:30	Burkhard Schulze Darup   DomRömer Frankfurt – a historical monument as a new build	Stefanie und Hans-Dieter Rook   Joint building ventures – getting more done together	Andreas Gruner   Towards sustainable housing in Mexico	Sebastian Moreno-Vacca   Passivhaus + Bream and green lease at no extra cost. A myth?
12:00	Norbert Stärz   Mainzeile apartment building: planning in a challenging field – quality, costs, Passive House	Klaus Zeller   Multi-storey apartment complexes with single-shell brick walls – 17 units in Cologne	Clare Parry   Multi-use Passive House buildings in humid & hot climates: Jakarta	Hannes Mahlknecht   User habits – impact on energy consumption in Passive Houses
POSTER CONTRIBUTION	12:30 1) Krause: Combining a balance-based approach for Passive House planning with simple dynamic building simulation 2) Steiger: PHPP 8 - worldwide applicability, added functions, improved user-friendliness and compatibility 3) Edwards: "designPH" plugin for Trimble Sketchup: A visual tool to export building geometry to PHPP and provide instant feedback on performance at pre-planning stage	1) Tribus: Different approaches in basement isolation in a Passivhaus condominium in relations to its overall energy efficiency 2) Vallentin: Training towards the Certified Passive House Designer qualification in a Passive House design office	1) White: A Method for Peak Cooling Load Calculation for Low-Load Houses in Humid Climates 2) Gilliland: Passive House Design produces First Certified Net Zero Energy Home in California 3) Reddy: Performance evaluation of solar insulation materials in UAE conditions	1) Rossi: Zero energy cooperative building in North Italy 2) Langenkamp: Challenging the possibilities
12:45	LUNCH	Session XIV: Sustainability*	Session XV: Retrofit: Validation of the Potential (held in English)	Session XVI: Implementing Passive House Standard (held in English)
14:15	Harald Krause   Passive House schools in the City of Offenbach	Gernot Vallentin   Holistically sustainable building concepts – a plus for the Passive House	Lars Ørtoft   A Large Energy Efficient Renovation to Passive House	Virginie Leclercq, Pierre Willem   Exemplary Buildings, a step towards nZEB in the energy policy of the Brussels Region
14:45	Bärbel Steinmann   Day care centres – building services in timbered and solid construction	Benjamin Krick   Nearly Zero Energy Building? The Passive House provides an answer	Mike Duclos   EnerPHit in Boston: Refurbishment of a timber frame two-family house	Markku Hienonen   What public authority can do to increase energy efficiency in new buildings
15:15	Søren Peper   Monitoring the Lünen Passive House indoor pool	Rainer Vallentin   Energy transition and energy sustainability: what the Passive House concept can do up to 2060	Agris Kamenders   Post-occupancy evaluation of dormitory building with aim of EnerPHit renovation	Tadeja Kovačič   The effects of Eco Fund's grants for energy efficiency in buildings: Slovenian experience
15:45	Michael Hörner   The IWU building: modernization with Passive House components – concept, costs, and operational experience	Martin Bauer   Using Passive Houses to store non-electric energy in smart grids	Tobias Loga   TABULA – Residential Building Typologies in European Countries	Art McCormack   Groundbreaking Training for Passive House Tradespersons
POSTER CONTRIBUTION	16:15 1) Gollwitzer: A comparison of insulation apron solutions 2) Freundorfer: Windows of efficiency class phA+: an important step towards zero-heating-energy homes?	1) Sørnes: Energy efficient timber framed external walls: Energy and environmental assessment over the life cycle 2) Miščević: Passive House and ECO-SANDWICH EU Eco-innovation Project for Facade Panels	1) Little: Managing moisture – the key to healthy internal wall insulation retrofits of solid walls	1) Zbasnik-Senegacnik: Seismic safety of Passive Houses 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
16:30	COFFEE BREAK			

## PLENARY SESSION | Harmony Hall

- 17:00 Wolfgang Feist | Energy concepts – the Passive House in comparison. Conferral of the Passive House Pioneer Award
- 18:00 End of conference

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Subject to alterations