(Only one speaker/poster presenter discount will be granted

for each accepted oral and/or poster contribution)

Early booking rate

Poster presenter rate

Student discount

Regular rate

Guided tour

Regular rate

one-day conference participation)

Regular rate

Speaker rate

» Conference: Friday and Saturday, 17 and 18 April 2015

(registration by 20 February 2015, payment before 27 February 2015)

(registration by 20 February 2015, payment before 27 February 2015)

» Evening event: Friday, 17 April, 7:00pm - 11:00pm

Evening event at the CCL for the conference participants and

exhibitors with an exhibitor pass is included in the price €45

(Please note that no speaker/poster presenter discount is available for

» Passive House excursion: Sunday, 19 April

» Compact course cost-effective Passive Houses

(For conference participants only; limited space available)

iPHA member discount on prices listed above

Wednesday, 15 April, 9:00am – 5:00pm

» New developments: PHPP 9 & designPH

Special conditions | in German only

Conference participant rate

» Ventilation workshop

» Windows workshop

» Business case seminar

Conference participant rate

All prices include VAT

Thursday, 16 April, 9:00am -1:00pm

Thursday, 16 April, 1:30pm - 6:30pm

Thursday, 16 April, 1:30pm - 6:30pm

Thursday, 16 April, 2:00pm - 6:30pm

Regular rate for each of the above events

iPHA member/student discount for above sessions



Under the patronage of

Sigmar Gabriel

German Federal Minister for **Economic Affairs and Energy** 



64283 Darmstadt | Germany

Workshop: New in PHPP 9 & designPH 16 April 2015 16 April 2015 Workshop Ventilation (EN) 16 April 2015 Windows Workshop (EN) 16 April 2015 Business case seminar (EN) 17-18 April 2015 19th International Passive House Conference and Exhibition, Leipzig

all German language sessions.

Photo credits: Cover photo: Erich Kästner School, pbr Planungsbüro Rohling © City of Leipzig





















# Federal Ministry for Economic Affairs

# (Full-time students only; copy of valid student ID must be enclosed with

### » One-day conference participation Passive House Institute | Rheinstraße 44/46 Early booking rate

» Detailed information and online registration:

www.passivehouseconference.org

# » 2014 Conference schedule

Passive House Excursions 19 April 2015

# » Conference languages: German and English

Simultaneous translation into English will be provided at

Supported by:















# » 1. Registration

€690

€210

€380

€410

€510

€200

€100

€450

€200

30%

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 the registration is made before 20 February and payment is completed before 27 February, respectively. 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 after 20 February 2015 will incur a €70 processing fee while cancellations made as of 20 March 2015 will incur a fee equal to 50% of the total registration fees. The participation fee is to be paid in full in case of no-shows and cancellations as of or after 30 March 2015; a substitute participant may, however, be named.

### » 2. Services

The scope of services includes: the conference proceedings complete with conference presentations, lunch, coffee breaks, participation in the Friday evening event and simultaneous translation into English at all German language sessions. Conference participants receive a free public transport ticket (Fahrausweis), valid from 16 through 19 April 2015, allowing the use of all public transport within the city of Leipzig, its surroundings (Zone 110) and in the arrival and departure zone 162, 163 of Leipzig/Halle airport.

# » 3. Cancellation, restriction of liability

In the event that the 19th 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.

Detailed information on the **framework programme**: www.passivehouseconference.org

### » Excursions

On Sunday, 19 April 2015, conference participants will have the opportunity to tour Passive House buildings that are either already completed or under construction. All excursions include travel, the tour itself in either English or German with translation into English as well as a small meal and drinks. Space is limited. Meeting point: Congress Center Leipzig CCL

**EXCURSIONS ON SUNDAY | 19 APRIL 2015** 

All excursions end at the Leipzig Central Station

# Excursion 1 | Education | 9:00am - 5.30pm

(new build only)

Daycare facility, school, single family home, fire station

# Excursion 2 | Public buildings | 9:00am - 4:00pm

(retrofit and new build)

Training center retrofit, daycare facility retrofit, school, fire station, school retrofit

# Excursion 3 | City of Halle | 9:00am - 5.30pm

(new build only)

School, two single family homes

## Excursion 4 | Learning and living | 9:00am - 3.30pm School retrofit, two newly built schools, apartment building

Excursion 5 | Fire station and schools | 9:00am - 4.00pm School, fire station, school retrofit

# Excursion 6 | Health, Learning and Living | 9:00am - 2.30pm School, semi-detached house, medical centre and spa retrofit

Please note that this programme is subject to change.

# » Conference scientific advisory board

Roland Digel, Osnabrück (DE) | Wolfgang Feist, Innsbruck (AT) | Angelika Freifrau von Fritsch, Leipzig (DE) | Marianne Fujara, Darmstadt (DE) | Harald Halfpaap, Hannover (DE) | Robert Hastings, Wallisellen (CH) | Olivier Henz, Verviers (BE) | Bjorn Kierulf, Senec (SK) | Helmut Krapmeier, Dornbirn (AT) | Raimund Krell, Leipzig (DE) | Simone Kreutzer, Växjö (SE) | Benjamin Krick, Darmstadt (DE) | Dirk Mobers, Wuppertal (DE) | Søren Pedersen, Næstved (DK) | Rainer Pfluger, Innsbruck (AT) | Olaf Reiter, Dresden (DE) | Ludwig Rongen, Wassenberg (DE) | Jan Steiger, Darmstadt (DE) | Rolf-Peter Strauß, Bremen (DE) | Anke Unverzagt, Hannover (DE) | Marcus van Reimersdahl, Dresden (DE) | Etienne Vekemans, Paris (FR) | Mark Zimmermann, Dübendorf (CH)

### » Exhibition

Passive House components provide maximum comfort with low 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 trade fair. Here you will find first-class advice, information materials, illustrative models, a range of solutions to supply your Passive House ecologically with renewable energies and experts happy to answer your questions. In parallel, a lecture series will provide visitors with additional Passive House insights.

Friday and Saturday, 17 and 18 April 2015

Congress Center Leipzig Seehausener-Allee 1

04356 Leipzig, Germany

Time table: 17 April 2015, 9:00am - 7:00pm 18 April 2015, 9:00am - 5:00pm

### » Exhibition area themes

Insulation

Venue:

- · 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 buildings

# » Target groups

Architects, designers, engineers, energy consultants, energy suppliers, craftspeople, 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





and Exhibition



# **Congress Center Leipzig** Germany 17 – 18 April 2015

Framework programme 16 – 19 April 2015

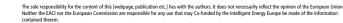
Programme











# this flyer for the 19th Passive House Conference 2015 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 19th Passive House Conference and side events, to be held in Leipzig, Germany from 17 - 18 April 2015. I am aware that my registration is binding. City, Date:

Signature:

# **WORKSHOP PROGRAMME**

PHPP 9 & designPH [EN] Thursday, 16 April, 9:00am -1:00pm

New developments of the Passive House design software.

### Windows Workshop [EN]. Thursday, 16 April, 1:30pm - 6:30pm

The worldwide market for highly efficient, cost effective windows is outpacing the spread of the knowledge needed to manufacture them. resulting in a frustrating bottle neck. This workshop, put on by Benjamin Krick of the Passive House Institute and Franz Freundorfer of pro Passivhausfenster, will help to ease that bottle neck by providing window manufacturers, designers, and other interested parties with expert knowledge on high performance windows.

## Ventilation Workshop [EN]. Thursday, 16 April, 1:30pm - 6:30pm

In this workshop, cost effective ventilation concepts, including new ideas for air distribution, will be introduced and discussed. Especially in the case of centralized ventilation systems where fire and noise protection requirements must be met, cost effectiveness can become a challenge. This workshop will explore these aspects and also look into decentralised systems, where the use of prefabricated elements can result in simplified installation and general cost savings. This informative workshop will also serve as an opportunity for the exchange of practical experience.

## Business case seminar [EN] Thursday, 16 April, 2:00pm - 6.30pm

This seminar, supported by the EU-funded EuroPHit project and put on by the Passive House Institute, explores the business case for Passive House concepts and components. The half-day event will provide insight into the economics of building energy efficiency and high performance building components, as well using the PHPP to compare the business cases for design variants. The basics of economic feasibility calculations and boundary conditions will be explained as will the influence of funding programmes.

### www.europhit.eu

Venue:

Congress Center Leipzig CCL

Seehausener-Allee 1 | 04356 Leipzig, Germany

For programme details on these workshops, please visit: www.passivehouseconference.org

2015 Component Award Ceremony Friday, 17 April 2015 Passive House Conference Plenary Session



**EuroPHit** 

# PLENARY SESSION | Hall 1

9:00 Opening remarks | Burkhard Jung, Lord Mayor of the City of Leipzig (tbc) | Ruairi O'Brien, board member of the Saxony Chamber of Architects | President of the Saxony Chamber of Engineers 9:45 Kevnote

FRIDAY PROGRAMME | 17 APRIL 2015

# Hall: 1

15:30 COFFEE BREAK

and practice

masonry consoles

sandwich facades

in Passive House buildings

doors in the insulation level

components touching the ground

homes to timbered complexes

see Framework Programme

Session I: The economics of Passive House 13:00 Elisabeth Sibille | How energy-conscious plan-

> ning lowers construction costs P: Siegfried Schlott | The overall energy values of a Passive House building

Britta Stein | National approaches to Nearly Zero-Energy Buildings in Europe Annette Bähr | Optimizing the lifecycle costs of

on in planning and construction P: Martina Riel | Economic feasibility study of a renovated office complex

P: Nataša Teraž | Passive House can be affordable Optimization through development

Session V: Components: Building envelope

phA+ - a further step toward cost efficient PH

Aleš Ugovšek | Thermally modified wood - ap-

plicable material for passive windows - theory

P: Günter Schlagowski | The production of Passive House

Standard windows in a Passive House certified production

P: Michael Stegemann | Better insulation with optimized

Andreas Rudolph | Safety and usability of certi-

Frank Hülsmeier | Resource-optimized, slender

Johannes Foppe | The EMS+SI element assembly

system – the easy way to install windows and

P: Mirko Schüren | The soil as part of the building

envelope: The U-values and PSI values of building

Andreas Naumann | Timbered Passive House,

P: Alan Clarke | Heat loss via internal drainage vent pipes

Introduction for session I in "Business case seminar".

the 3 G+ construction system from single-family

fied Passive House post-and-beam designs

16:00 Franz Freundorfer | Windows of efficiency class

Ingo Höffle | Affordable Passive House production facilities

## Hall: 2

Session II: Building services

Norbert Stärz | Dimensioning the heat-generator for single-family homes and apartment complexes Alexander Pröh | Should apartment complexes have

central ventilation systems or a unit in each apartment? Peter Schwerdtfeger | Optimizing airflow in nonresidential buildings – a case study of kindergarten

Gabriel Roias | Comfort and affordability with air day care centers – the potential of standardizati- heating – a comparison of radiators and floor

> Oliver Kah | Lowering costs with central residential ventilation systems

Oliver Ottinger | The cost-saving potential of water heating systems for drinking water: supply, distribution, and use

Session VI: Planning, analysis, and training

Jessica Grove-Smith | The PER sustainability

Alexandre Schütze, Miroslaw Kowalski

the PHPP based on light simulation

less than 15 minutes

and cooling

P: Oliver Ottinger | Heat losses through chimney systems P: Lars Altendorf | Quality management for

P: Martin Schaub | The PHVP app: PH project planning in

Consideration of complex shading situations in

Matthias Werner | Simplified facade planning in

terms of demand for artificial lighting, heating,

Eleni Andreou | Should the PH standard include the

environmental impact of materials in its standard?

P: Dietmar Siegele | Critical analysis of solar domestic hot

P: Wolfgang Hasper | Improved teaching materials for

water and solar space heating algorithms in PHPP

weh-hased Passive House checklists

P: Sarah Lewis | PHPP illustrated

Passive House Designer training

### 11:15 Group visit to the exhibition

FRIDAY PROGRAMME | 17 APRIL 2015

10:30 Passive House components: The key to the Energiewende | Wolfgang Feist

12:00 LUNCH BREAK

Hall: 3

Session III: Leipzig and Saxony

Bernd Wolters | Implementing the Passive House Standard in the Free State of Saxony Dorothee Dubrau | What the City of Leipzig is

Andreas Hofmann | Technical monitoring

Irmela von Nordheim | Social monitoring

"Zauberhaus" in Delitzsch by Leipzig

school and residence hall in use

Passive House components

Netherlands

Energy buildings

Olaf Reiter, Frank Hawemann | Day-care centre

Michael Tribus | Step-by-step refurbishment of a

Harald Malzer, Rainer Pfluger | The first certified

EnerPHit office high-rise — modernizing with

Reimar von Meding | Veilige Veste – the first

Karl Höfler | Innovative retrofits towards Plus

Carl-Peter Goossen | A practical approach for an

integrated refurbishment with a scrum team

P: Poster-Presentation

Passive House office complex retrofit in the

Maiia Guermanova | First EnerPHit Conservation Sash Window Developed Specifically for the UK Market Thomas Eaton, Mathias Krumbiegel, Jörg Haupt

Planning a Passive House sports high school Fabian Ochs, Georgios Dermentzis | Retrofitting with facade integrated micro-heat pump and Jörg Königsdorff | Thermal energy studies in MVHR – a European case study classrooms, air quality, and thermal comfort

proof COMPONENT AWARD

Hall· 4

Ernst Heiduk | High-performance aerogel insulating plaster for historic plaster facades

Session IV: EuroPHit: Components for Refurbishing

Beniamin Krick et al. | Passive House windows:

Comfortable, profitable, innovative, and future-

Tania Schulz | Recommendations for EnerPHit retrofits with interior insulation

Isabel Sanchez | Building Integrated Photovoltaic (BIPV) in Step by Step Retrofitting projects P: Christoph Dekant | Newly certified: Passive House

### Session VII: EnerPHit: Innovative retrofitting concepts Session VIII: China is catching up

Euro**PHit** 

Berthold Kaufmann | Xingfubao Passive House Building in Urumgi – lessons learnt

Peter Ruge | Best Practice in Southern China -Passive House Bruck

Dawid Michulec | Certified Passive House in China with planning and implementation done by Chinese firms

Han Fei, Yu Zhengjie, Ludwig Rongen | Challenges of implementation of Passive House construction in the present stage in China

heritage building: an historic Villa on Lake Como promotion in China Xu Wei | The application of high performance

# Oscar Stuffer | Deep energy retrofit of an architectural P: Yao Yi | Passive house technology popularization and

envelope in residential building in China Discussion with all the speakers

SATURDAY PROGRAMME | 18 APRIL 2015

9:15 Trans-European EnerPHit Case Studies Lead the Way | Tomas O'Leary 9.45 Classic, plus, premium: The new Passive House classes and how they can be reached | Benjamin Krick

# Hall: 2

Session X: Non-residential Passive House

Session IX: Building services engineering

10:30 Jürgen Schnieders | Active cooling in Passive House Werner Hässig, Sara Wyss | Optimization

of thermal bridges in buildings subject to - strategies for active cooling systems earthquake loads Matthias Laidig | How well does a compact device with fresh air heating work in practice? Measurement results Michael Keller, Steven Kellner | Multistory

PLENARY SESSION | Hall 1

9:00 Opening remarks by | Wolfgang Feist

Elisabeth Sibille | The use of active overflow systems for distributing fresh air in apartments

Andreas Gordes | Membrane heat exchangers versus condensation heat exchangers Bjorn Kierulf | Advantages of a wall integrated

centralised ventilation unit Allen Gilliland | Asynchronous Air Circulation fo

school in Freiberg, Saxony P: Olaf Reiter, Carla Groß | User manual for Passive Simplified Ventilation and Space Conditioning

Dietmar Herklotz | Experience as a Passive

Passive House office complexes

Jan Tywoniak | Education and office complex

Stefan Plesser | Evaluation of eight Passive

P: Ronny Erfurt, Karsten Sommer | A Passive House

of the Partnerství Foundation in Brünn

House day care centers in Hanover

House auditor

# district Heidelberg-Bahnstadt

Sebastian Moreno-Vacca | What does Passive House do for architecture? Passive House Brussels 2015 and beyond.

Clarence Rose | Passive goes NZEB, barriers and solutions in building regulations

- the PassREg idea remains valid

leads to the NZEB

climates

the Pyrenees

detached homes in Spain

Silvia Prieto | Several examples of monitored

by adapting EnerPHit standards to a warmer climate

House Dwellings for Southern European Climates

Techstyle Haus a passive house prototype in

Zdravko Genchev | The Passive House concept

Dragomir Tzanev + PassREg partners | The New F

Ralf Bermich | Passive House performance on a

large scale: Experience from the Passive House

assive House Regions Take On the Energy Revolution

Hall: 3

SATURDAY PROGRAMME | 18 APRIL 2015

Session XI: PassREg-Regions take on their leading Session XII: EuroPHit – Step-by-Step Retrofits

Marianne Fujara | Lessons learnt from the project Zeno Bastian, Søren Pedersen | Stepwise EnerPHit retrofit: New Certification Scheme and Online Platform

> Simon Camal | Practical implementations of step by step retrofit to EnerPHit standard

> Adam Robinson | EuroPHit: Models for Financing Step-by-Step Refurbishments

Susanne Theumer | Cost-optimised Standard for Social Housing retrofit in Mexico: EnerPHit

Marion Baeli | Lessons learned from 20 UK residential retrofits

P: Kevin Brennan | Hands-On: Historic Masonry EnerPHits in the field

P: Fernanda Rodrigues | Energy retrofit of a XIX century building in Portugal

13:00 LUNCH

Hall: 1

Session XIII: The path towards Nearly Zero-Energy Session XIV: PassREg – Passive House Buildinas

14:30 Marc Großklos | Passive House with surplus energy or Efficiency House Plus? Paths towards surplus

Christoph Hensel I A comparison of the Passive

development towards Plus Energy House Rainer Tepe | Solar-wood heating concepts for Passive House

Helmut Schöberl | Austria's largest Plus Energy office complex at Getreidemarkt, TU Vienna Boris A. Nikolaev | Passive House and active

buildings will be constructed in Russia! P: Joseph Thurrott | Meeting the heating energy demand using a local, renewable, inexpensive fuel: wood logs

P: Shane Colclough | Seasonal Thermal Energy Storage and P: Etienne Vekemans | French energy efficiency Passive House – lessons from five years of monitoring

neighborhoods

Lars Beckmannshagen, Jan Gerbitz | Passive House as a cornerstone of energy-efficient urban districts

Dietrich Schwarz | The Neugrüen Mellingen House concept and the Solar House with a further neighborhood, Minergie-A-Eco and -P-Eco

Matthias Wohlfahrt | Zero-emissions strategy for a neighborhood built in the 50s and 60s P: Friedemann Stelzer | Wilhelminian Style

Renewable Raw Materials P: Bernd Retz | Franco-German cooperation in assive House planning

Building in the EnerPHit-Standard With

P: António Figueiredo | Overheating and P: Saed Raji | Comparative analysis between the PHI standard and current French Optimization of Indoor Thermal Comfort of Passive House **Buildings in Warm Climates** 

P: Lucas A. Domingos | The potential of NZE regulations compared to PHPP Harald Halfpaap | Panel discussion

non-residential buildings in Brazil P: Zedillo Velasco | Systems for the evaluation of energy &

environmental efficiency of housing in Mexico

lightweight construction

Timur Kolsuz, Helen Bergstrom, Sam Zeif

Session XV: Energy efficiency in warm and hot Session XVI: Innovative Projects from all over

Micheel Wassouf | Comfort and Passive House in Nick Grant | Building a better Passivhaus school the Mediterranean summer – monitoring of two Béla Barabás | Case study – EvoHouse – Ecopassive concept from Romania

Adam Cohen | Integrated Project Delivery of Passive House homes from the Mediterranean to Passivhaus, a pathway to high performance at market rate

Wolfgang Berger, Bernd Nitsch | An EnerPHIT retrofit André Harrmann, Lukas Armstrong | A Multiof an apartment in a complex in Bilbao, SpainTugba Generation Triplex Passive House in the Canadian Salman Gurcan | Cost-effective retrofitting in Turkey Rocky Mountains

Matthew O'Malia | Warren Woods Ecology Field P: José Figueira | Thermal Comfort Analysis of LSF Passive Station: 1st certified laboratory in North America

> P: Nico Steinmetz | New office building for the Centre of Ecological Movement in Luxembourg-Pfaffenthal P: Sam Hagerman | An Economical Passive House

"Package" for the Pacific Northwest P: Paul Strachan | Temporal and Spatial Variation of Air

**Ouality in Passive Houses** 

17:00 COFFEE BREAK

# PLENARY SESSION | Hall 1

17:15 Closing plenary session | Wolfgang Feist 18:00 End of event

Programme is subject to change