

22ND INTERNATIONAL PASSIVE HOUSE CONFERENCE 2018

and Exhibition

*Passive House
– it`s worth
it!*

PROGRAMME

ArchitekturWerkstatt Vallentin © Jakob Kanzleiter

MOC | Munich
09 – 10 March 2018

Workshops & Excursions
05 – 11 March 2018



Landeshauptstadt
München
**Referat für Gesundheit
und Umwelt**



Bayerisches Staatsministerium für
Wirtschaft und Medien, Energie
und Technologie

09:00 - 09:45am **Welcome**



Rudolf Escheu
 Ministerial Director, Head of
 the Renewable Energy Division,
 Energy efficiency, Bavarian
 Ministry of Economic Affairs and
 Media, Energy and Technology



Stephanie Jacobs
 Head of Health and
 Environment, City of
 Munich



Christine Degenhart
 President of the Bavarian
 Chamber of Architects



Michael Kordon
 1st Vice President of the
 Bavarian Chamber of
 Construction Engineers



Dieter Vierlbeck
 Deputy Managing Director
 of the Chamber of Crafts for
 Munich and Upper Bavaria

09:45 - 10:15am **Frank Junker**



Chairman of the board,
 ABG FRANKFURT HOLDING
 "Over 15 years of economic
 success with Passive Houses
 in Frankfurt am Main"

© Ulrike Deuschler

10:15 - 11:00am **Wolfgang Feist**



Founder of the Passive House
 Institute and Professor at the
 University of Innsbruck
 "Passive House for affordable
 housing construction"

© Peter Cook

11:00 - 11:10am **Awards Ceremony
 Component Award**
 "Ventilation solutions for
 residential buildings"

11:15am - 12:30pm **Guided tours of the
 exhibition**

12:00 - 1:00pm Lunch break
 1:00 - 3:30pm Sessions 1 - 4
 3:30 - 4:00pm Coffee break
 4:00 - 6:30pm Sessions 5 - 8
 6:30pm End of the event

Passive House Networking Party
7.30 pm
 in the exhibition hall

Session 1: Passive House in Bavaria, Hall 2 (Level 0)

1:00 pm	Karin Reich	Passive House buildings in the Bavarian State Administration
1:25 pm	Josef Hochhuber	The Bavarian 10,000-houses-programme – promoting efficient and system-relevant buildings
1:50 pm	G. Vallentin, R. Vallentin	Passive House development in Munich and Bavaria
2:15 pm	Alexander Kirschbaum	Monitoring and operational optimisation of a new Passive House school building
2:40 pm	F. Lang, J. Klaffke	The sustainable city of the future
3:05 pm	Franz Freundorfer	Passive House through cooperation in regional networks – it's worth it!

Session 3: Projects in North America, Room D 111 (Level 1)

1:00 pm	Stas Zakrzewski	The importance of embodied energy in today's Passive House projects: A New York case study
1:25 pm	A. Arifuzzaman, D. Byrne	750 bed student residence with high occupancy load, is the cost of Passive House worth it?
1:50 pm	Brandon Nicholson	Passive House proof in Pittsburgh: profit + Paris progress
2:15 pm	M. Studer, L. Picciano	New market rate projects for the fast growing region of Vancouver
2:40 pm		P: McMath, Northern most certified PH in North America – A learning demonstration project P: Wall/Wimmers, A comparative LCA of the wood innovation research lab: an industrial PH for cold climates P: Fahssi, Calgary, carbon, and components: opportunities for PH in "C-Town" P: Moorhead, Buck Moorhead Architect: designing PH on the sky
3:05 pm		P: Paulsen, Clearing the air: Is flow rate a sufficient measure of kitchen range hood efficacy? P: Zouari, Feasibility assessment of PH in the far Canadian North P: Peel, Primary Energy considerations in a large mixed-use student dorm P: Romano, HANAC Corona: a case study of PH in multifamily affordable housing

Session 2: Components / Building services, Room K 1 (Level 0)

1:00 pm	Dietmar Siegele	Simulation study on the use of enthalpy transducers in cold climates
1:25 pm	Jörg Wollnow	Hygrothermal safety reserves thanks to hygrobrid technology for old and new buildings
1:50 pm	Solitaïr Kluth	Fiberglass composite as an innovative building material in the building envelope
2:15 pm	Rainer Pfluger	Replicable cost-effective solutions for Passive House multi-storey apartment buildings, Campagne-Areal Innsbruck
2:40 pm	Martin Sambale	Avoiding mistakes through the certification of Passive House buildings
3:05 pm	Michael Stegemann	Thermal optimisation of anchoring elements, here: masonry bracket P: Materne, Market overview battery storage – capabilities and distinctive features P: Schuller, Eco-efficiency analysis of heating and storage systems for households

Session 4: Politics, Networks and Trainings, Room C 112 (Level 1)

1:00 pm	Shane Colclough	The Passive House Standard – a key enabler
1:25 pm	Birgit Knoch	Luxembourg – not just banks
1:50 pm	Maarja Meitern	How is energy efficiency connected to value in European markets?
2:15 pm	Dieter Herz	Implementing and securing Passive House requirements in public construction
2:40 pm	Nick Grant	Passivhaus for the many not the few
3:05 pm		P: Jedliczka "Educate yourself and influence others through what you are" Wilhelm von Humboldt P: Feirer, PH is child's play – knowledge transfer for the builders of tomorrow P: Tzanev, The building knowledge hubs: successfully running PH trainings in Southeastern Europe P: McKenzie, Without a certificate, it is just a passive house. Or is it? P: Reichmann, "Walking Forest": PH with integrated artwork

P: Short presentation (Poster)

German

Simultaneous translation into English

German

Simultaneous translation into English

English

English

PROGRAMME FRIDAY | 9 MARCH 2018

Session 5: Cost-effectiveness / Economics in residential buildings, Hall 2 (Level 0)

- 4:00 pm Mario Bodem**
Cost reduction through the Passive House Standard – further optimisation approaches
- 4:25 pm Gerrit Horn**
True component costs
- 4:50 pm Engelbert Spiß**
Showcase project: The first five-Euro Passive House Standard residential building in Tyrol
- 5:15 pm Britta Stein**
Reducing utility costs in social housing
- 5:40 pm Andreas Nordhoff**
Economic supply of Passive House with heat pump
- 6:05 pm** P: Noy, Growing up in a PH – Ten years of experience and its influence on a young adult | P: Costa, Integral planning enables the interdisciplinary optimisation of a youth recreational center | P: Geyer, PH – preferably simple! | P: Gstrein, Flat rate model – PH new-build with electric heating and PV system | P: v. Thermann, PH of GWG Munich – Humannweg 1– Harthof

Session 6: Retrofit projects, Room K 1 (Level 0)

- 4:00 pm Helmut Schöberl**
Eberlgasse Passive House retrofit in inhabited state
- 4:25 pm Friedrich-Günther Rentzsch**
City of Lübbenau / Spreewald: Integration nursery – Wichtel – in Lübbenau / Spreewald
- 4:50 pm Clemens Le Levé**
Ecological retrofit – with a new façade system
- 5:15 pm Jürgen Schnieders**
Why older buildings are not heated as much as thought – an attempt to explain
- 5:40 pm R. Iannetti, B. Kaufmann**
Reconciling efficiency-cost-effectiveness – PH Standard – affordable apartments in Italy
- 6:05 pm Admir Music**
Air distribution in housing – development of the façade

AFTERNOON

Session 7: Hot Climates and Summer Comfort, Room D 111 (Level 1)

- 4:00 pm Amarante Barambio Buisan**
Premium, ecological and autarc. A house in Mallorca
- 4:25 pm Francesco Nesi**
A systematic LCC analysis for the Mediterranean: the emblematic case of Italy
- 4:50 pm Stefan Pallantz**
Can a single minisplit heat and cool a 100m² Passive House?
- 5:15 pm** P: Oliveira, Innovative sustainable construction: Energy independent CLT PH for South Europe | P: Dobrevski, How to get cost-effective summer comfort | P: Gavião, PH in Brazil: different solutions for different climatic conditions | P: Stathopoulou, Single family PH PLUS in Attica, Greece
- 5:40 pm** P: Russo, Cost-effective MEP solutions for a multifamily building in Mediterranean climate | P: Abercromby, Construction & evaluation of a complex PH in the warm climate of Western Australia | P: Pagliano, Monitoring results of a zero energy PH with renewables in a Mediterranean climate | P: Clarke, Boundary conditions for robust summer comfort predictions in PHPP
- 6:05 pm** P: Treberspurg, Summer comfort in PH residential buildings through component-activated reinforced concrete ceilings | P: Arda, A modular approach to building purpose-oriented self-sufficient structures

Session 8: Methods and Tools, Room C 112 (Level 1)

- 4:00 pm P. Cuesta, J. Calvo**
Passive House users and BIM. How to make the most of revit models on PHPP certifications
- 4:25 pm Tim Martel**
Time Saving Tools for PHPP: Window Tool and Lifetime costing with co-benefits
- 4:50 pm Michael Crilly**
Convergence and interoperability of BIM with passive design principles
- 5:15 pm Bart Cremers**
Effects of condensation in exchangers of ventilation units – analysis of field studies
- 5:40 pm Krisjanis Kalnciems**
The Passive House Standard as the backbone for successful PPP infrastructure projects
- 6:05 pm** P: Hall, PVopti – Hourly-based design tool for determining personal consumption | P: Kampouropoulos, A novel methodology for the optimization of the retrofiting actions during building | P: Ottinger, Heat losses through internal waste and rainwater pipes – Monitoring & Modelling

8:30pm Plenary



Janna Schönfeld
EASME –
European Commission
Energy efficiency in buildings:
state-of-play on EU-level



Frank Heidrich
Federal Ministry of Economics
and Energy



Burkhard Schulze Darup
Architect
"Passive House quo vadis?"



Elrond Burrell
VIA architecture,
Passivhaus in Plain English
& More, and Passive House
Institute New Zealand
"Love Passive House"

10:30am - 1:00pm Sessions 9 - 12
1:00pm - 2:15pm Lunch break
2:15pm - 4:45pm Sessions 13 - 15
4:45pm - 5:15pm Coffee break

5:15pm Panel discussion (in German):
„Passive House – it’s worth it! How to effectively
implement high energy efficiency at the regional
level“

5:15pm Participants of the panel discussion



Josef Hochhuber
Bavarian Ministry of Economic
Affairs and Media, Energy and
Technology



Wolfgang Feist
University of Innsbruck
and
Passive House Institute



Simone Kreutzer
IG Passivhus Sverige



Micheel Wassouf
Energiehaus Edificios Pasivos



Franz Freundorfer
Passivhauskreis
Rosenheim-Traunstein

Session 9: Cost-effective non-residential projects in operation, Hall 2 (Level 0)

Session 11: Passive House in Asia, Room D 111 (Level 1)

German

English

- 10:30 am **L. Lepp, M. Reich**
MPREIS Passive House Supermarkets:
An economic success story
- 10:55 am **A. Robrecht, J. Kuckelkorn**
Monitoring and operational optimisation of the
Energy Plus School Schmuttertal-Gymnasium Diedorf
- 11:20 am **Søren Peper**
Monitoring: Passive House police administrative
building
- 11:45 am **Rainer Moll**
Experiences with operational and user behavior in
non-residential Passive House buildings
- 12:10 pm **Olaf Reiter**
Conference Center IHD Dresden – the next
generation lecture hall
- 12:35 pm **Martin Endhardt**
Office building using hybrid construction

- 10:30 am **Ludwig Rongen**
SAYYAS Passive House Window Factory, Harbin
(Northern China)
- 10:55 am **Bintao Deng**
The development and mode exploration of passive
ultra-low energy buildings in China
- 11:20 am **Mingzhe Lu**
The modernisation of existing building stock towards
the PHI Passive House Standard in China
- 11:45 am **Myoungju Lee**
Applying Passive House Standard techniques to the
first zero energy housing complex in Nowon District, Korea
- 12:10 pm **Aijuan Zou**
Passive House HVAC System Design Case Study
P: Frey, Economic mechanism strategies for the realisation of innovative
construction concepts
- 12:35 pm **P:** Rongen, Prefabricated Passive House Modular Buildings, Sunite (China) and
Ulan Bator (Mongolia) | **P:** Ring Evaluating energy consumption and comfort
in Qingdao Passive House experience center | **P:** Zhicai Han, The application
of graphite polystyrene board in Passive House buildings in China

Simultaneous translation into English

Session 10: Supply Concepts and Renewable Energies, Room K1 (Level 0)

Session 12: Projects in Europe, Room C 112 (Level 1)

German

English

- 10:30 am **Benjamin Krick**
Opportunities for electrically supplied buildings in
Germany's sustainable energy transition
- 10:55 am **Jürgen Schnieders**
Energy balancing at district level
- 11:20 am **J. Mühlhaus, R. Vallentin**
PER participation model with sustainability
component
- 11:45 am **Jessica Grove-Smith**
Active cooling in the context of a renewable energy
supply
- 12:10 pm **R. Vallentin, M. Schröfer**
Energy self-sufficient Passive House building
- 12:35 pm **Martina Reinwald**
Energy storage and grid regulation for highly efficient
buildings – wind heating 2.0
P: Slonski, The path from Passive House to the Plus Energy House |
P: Deimel, Plus Energy House Tuttingerweg: Cooling in summer

- 10:30 am **Rachel Mitchell**
Proving Passivhaus: Post occupancy evaluation of
certified Passivhaus homes in the UK
- 10:55 am **Andy Jarvis**
Next generation Passivhaus archives radical simplicity |
KISS Premium
- 11:20 am **Jesus Menendez**
Passive House photo set studio: project and user
experiences
- 11:45 am **Bertie Dixon**
Efficient heat system design in large Passivhaus
multifamily buildings, the UK experience
- 12:10 pm **P:** Bradshaw, Moisture, embodied energy & other qualities of natural materials
in Passivhaus buildings | **P:** Stephens, Designing with the vernacular in relation
to planning & PH – An Irish perspective | **P:** Sutherland, Hampshire PH – Site
sensitive design for health, wellbeing and low carbon dwelling | **P:** Mišćević,
First eco-sandwich house – Social housing PH aesthetics
- 12:35 pm **P:** Tresidder, PH buildings as renewable-energy buffers in Scotland | **P:** Dehlin,
PH construction in sub-arctic climate | **P:** Monteyne, Autonomy of a residential
PH in Belgium using PV and energy storage | **P:** Riis Dietz, Solar passive and
active cooling in social housing, 3 PH terrace houses in DK.

Simultaneous translation into English

P: Short presentation (Poster)

Session 13: Cost-effective ventilation solutions for residential construction, Hall 2 (Level 0)

Session 15: Retrofits international, Room D 111 (Level 1)

German

- 2:15 pm **Kristin Bräunlich**
Component Award for cost-effective home ventilation
- 2:40 pm **Norbert Stärz**
Ventilation in housing – centralised, decentralised or somewhere in between?
- 3:05 pm **Tanja Schulz**
New concepts for controlled ventilation: Component-integrated ventilation in residential construction
- 3:30 pm **Markus Wirnsberger**
Simple ventilation systems for residential buildings – Investigations in a research apartment
- 3:55 pm **Oliver Kah**
Summer comfort in residential buildings: additional cooling potential / new evaluation approach
- 4:20 pm **P: Rojas**, Testing recirculating cooker hoods | **P: Fuge**, Air based heating and comfort, are new system concepts making it possible? | **P: Solcher**, Natural differential pressure on the building envelope – results of long-term monitoring | **P: Feist**, System optimisation: From minimal monitoring to precision measurement

Simultaneous translation into English

English

- 2:15 pm **D.E. Archer, Z. Norwood, I. Theoboldt**
Evaluation of a million programme retrofit to Passive House with BIPV roof and façade
- 2:40 pm **Michael Ingui**
Game Changing Realities
- 3:05 pm **Oliver Style**
Step-by-step or one big jump? A multi-storey residential EnerPHit project in Girona, Spain
- 3:30 pm **J. Steiger, Y. Frank**
A New York high-rise retrofit study
- 3:55 pm **Esteban Pardo**
Pilot office building from the national government of Spain meets Passive House and BREEAM
- 4:20 pm **P: Vicente**, Running after the PH concept: adaption of a three storey building in operation | **P: Rodrigues**, Energy retrofit of a historic heritage building in Oporto | **P: Petran**, Renovation of a 1977 experimental house to the Passive House and national nZEB standards

Session 14: Ecology and Passive House, Room K 1 (Level 0)

Session 16: Components international, Room C 112 (Level 1)

German

- 2:15 pm **W.Opitsch, G. Vallentin, M. LEMONI**
A perfect combination! Renewable resources and Passive House
- 2:40 pm **Stephan Leitschuh**
Life cycle analyses for residential buildings of various construction types
- 3:05 pm **Christoph Sutter**
Life Cycle Assessment with HEROES – simplified data collection, a holistic approach and optimisation
- 3:30 pm **Simon Speigner**
Hummel barracks, Graz
- 3:55 pm **Ingo Lütkemeyer**
Stadtwerke Neustadt – A Zero Emission Building completed using sustainable construction
- 4:20 pm **Gernot Vallentin**
Energy-efficient building in line with room climate aesthetics

Simultaneous translation into English

English

- 2:15 pm **Michael Meyer-Olbersleben**
Passive House museum, Passive House model homes and 1 million m² of building land
- 2:40 pm **Olav Langenkamp**
Open-system façade integrating heating, ventilation and energy production
- 3:05 pm **Tomas Mikeska**
Testing air-to-air heat pumps under realistic conditions: The influence on its performance
- 3:30 pm **Enrico Bonilauri**
External vs internal air tightness: understanding risks in climate specific solutions
- 3:55 pm **P. Ševela, M. Schulze**
Drain Water Heat Recovery – technology principles and planning recommendations
- 4:20 pm **P: Petran**, Life cycle assessment of a small cost-effective PH in Eastern Europe | **P: Leigh**, Energy Consumption Analysis of Ventilation Cooling Applied in an Office Building in Korea

Practical tips for the designer's everyday life (in GERMAN only)



The balancing act between norms and energy efficiency

Friday | Room C 115/116 | 1:00pm-3:30pm

How MUST my ventilation perform – what are the efficiency potentials?

Standard recommendations vs. energy saving window installation

Building envelope: Avoid thermal bridges – optimising potentials

Airtightness: why leaks cost money

Compatibility of efficiency and building culture

Guided tour of the exhibition

Programme tip for the afternoon:

Session 5: Cost-effectiveness / economics in residential buildings, Hall 2

Session 6: Retrofit projects, Room K1

Passive House – it's worth it! Convince your clients!

Saturday | Room C 115/116 | 10:30am-1:00pm

Comfort and health – the arguments for sustainable housing

Cost drivers in the project: how can I get around these? Solutions

The Performance Gap – does it really exist?

Passive House in the funding jungle

Guided tour of the exhibition

Programme tip for the afternoon:

Session 13: Cost-effective ventilation solutions for residential construction, Hall 2

Session 14: Ecology und Passive House, Room K 1

Excursions in Munich and surroundings

On Sunday, 11 March 2018, conference participants will have the opportunity to tour Passive House buildings that are either already completed or under construction as well as component manufacturing facilities. All excursions include travel. The tour will be conducted in either English or German with an English translation. A small meal and drink will be provided.

Meeting point:

MOC | Munich | Lilienthalallee 40 | 80939 Munich

Excursion 1 | District living | 09:00am – 4:30pm

Multi-family buildings | Workshops | Local energy supply | Mobility

earlier end possible: 4:00pm Hbf Munich

Excursion 2 | Munich | 09:00am – 4:30pm

State Parliament Building | School | Multi-storey apartment building

earlier end possible: 4:00pm Hbf Munich

Excursion 3 | Munich North | 09:00am – 4:30pm

School | Kindergarten | Office building

earlier end possible: 4:15pm Hbf Munich

Excursion 4 | Augsburg | 09:00am – 5:00pm

Plus Energy School | PH Prefabricated home manufacturer (wood) | Office building | Multi-family building

earlier end possible: 4:15pm Hbf Augsburg

Excursion 5 | Allgäu | 09:00am – 5:45pm

Ventilation manufacturer | PH Premium | School with sports hall | Office building (under construction)

earlier end possible: 5:30pm Hbf Munich

Excursion 6 | Innsbruck | 08:00am – 7:30pm

PH Prefabricated home manufacturer (wood) | Supermarket | Multi-storey apartment building | University retrofit

earlier end possible: 5:30pm Hbf Innsbruck

Please note that this programme is subject to change.

Exhibition

Passive House components provide maximum comfort with low energy costs in new builds and refurbishments alike. Whether you are looking for insulation materials, windows or ventilation systems with heat recovery – all of the 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, and experts happy to answer your questions.

Date: Friday and Saturday,
09 and 10 March 2018

Venue: MOC | Munich
Lilienthalallee 40
80939 Munich | Germany

Times: 09 March 2018, 10:00am - 07:00pm
10 March 2018, 09:00am - 06:30pm

The conference and Passive House exhibition are aimed at: architects, designers, engineers, energy consultants, energy suppliers, tradespeople, scientists and researchers, retailers, manufacturers, local authorities, property developers, students

To order an exhibitor info pack, please contact:
Donna Haab | Passive House Institute

Tel.: +49 (0) 6151/826 99 89
E-mail: donna.haab@passiv.de

Exhibition area themes

- Insulation
- Windows and doors
- Ventilation systems with heat recovery, compact heat pump units, air conditioning split 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 buildings and building components
- Contracting businesses, trade associations, architectural and engineering firms, energy consultants, quality assurers
- Software, specialist literature, advanced training
- Renewables for Passive House buildings



Training & Networks

for 21st century construction (in English)
Passive House-Forum, Friday, 11:15am - 1:15pm

Experience exchange for universities, colleges, further-education centres and networks. Dedicated to the teaching and dissemination of energy efficient construction knowledge.

NODES 18

Train-to-NZEB
The Building Knowledge Hubs



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 649810.

Component Award for cost-effective home ventilation

In 2018 for the second time running, the Component Award will be awarded for ventilation solutions for residential buildings. The housing sector is once again experiencing steady growth after years of stagnation. The current Component Award will therefore concentrate on cost-effective ventilation solutions for new residential constructions.



Affordable Zero
Energy Buildings



This project has received funding from
the European Union's Horizon 2020
research and innovation programme
under grant agreement No 7564718



Thursday, March 8, 2018: 9:30am - 4:30pm

Dialogue Forum for Municipalities:

Energy-efficient municipal buildings: successful, cost-effective implementation from the planning and construction phase to operation. (in German)

This event offers successful and practical examples for the implementation of energy-efficient municipal buildings for representatives from municipalities, cities and rural districts. With concrete tips and instructions for implementation, beginners and experts alike will get an overview of the technical and economic possibilities and developments of energy-efficient construction.

More information:

www.lfu.bayern.de/veranstaltungen



Monday, March 5 & Tuesday, March 6, 2018:

PHPP Basics (in German) 9:00am - 5:30pm

This 2-day workshop provides basic knowledge of the Passive House Planning Package (PHPP), the energy balancing and planning tool for efficient buildings and retrofits.

Wednesday, March 7, 2018

PHPP variant calculation (in English) 9:00am - 5:30pm

Become familiar with the use of the PHPP variant calculation! Allow your client to compare efficiency measures for various standards; check the influence of insulation thickness or other components on the energy demand; and enter retrofit stages to explain efficiency improvement of a building over 20 years.

designPH – from beginner to advanced user

(in English) 9:00am - 5:30pm

We will demonstrate how a building model can easily be set up using the 3D planning tool designPH, to receive preliminary feedback on the energy performance of your sketch designs. Learn how to refine the building energy model to improve the efficiency.

Thursday, March 8, 2018:

New ventilation concepts (in German)

9:00am - 1:00pm

Become familiar with new controlled ventilation concepts that provide a promising approach towards reduced investment costs: façade-integrated ventilation and decentralized solutions.

BIM based quality assurance and efficiency design

(in English) 9:00am - 1:00pm

Learn how to prepare a BIM-model for IFC-export to then either import it into PHPP or into a Virtual Construction Management Platform for quality assurance of energy efficient projects.

Space is limited, registration obligatory – no fee.



This project has received funding from the European Union's
Horizon 2020 research and innovation programme under
grant agreement No 637221.

Thursday, March 8, 2018:

Economics of energy efficiency (in German)

9:00am - 1:00pm

How do you determine the economics of energy efficiency measures? In this workshop, you will learn how to make reasonable use of project cost data and how to compare options. The influence of funding programmes is also shown. The practical part deals with the input of project variants into the PHPP and the economic analysis with PHeco.

Airtightness and moisture control in different climates (in English) 9:00am - 1:00pm

This workshop will focus on the importance of airtight construction and the influences on energy consumption and moisture protection under different climatic conditions. Findings from various studies carried out by PHI on Passive House buildings in different climates will also be summarised.

Energy efficiency and renewables towards optimal solutions (in German) 9:00am - 1:00pm

The less energy a building requires, the easier it is for this energy to be provided in a sustainable way. We will show you how cost-efficient and simple solutions can be achieved – both in theory and in many built and monitored examples.

Your personal conference preparation:

Passive House Basics E-Learning:

www.passivhausplaner.eu



Thursday, March 8, 2018:

Energy efficient hot water systems (in English)

2:30 - 6:30pm

The energy demand for the provision of hot water plays a dominant role in the energy balance of residential Passive House buildings. This workshop presents and discusses saving potentials and planning recommendations.

Commissioning and performance optimisation (in German) 2:30 - 6:30pm

The workshop will focus on quality assurance as well as common MVHR commissioning issues and suggestions on how to tackle them. The most important findings of the 52nd session of the Research group for cost-effective Passive House buildings will be summarised.

Cooling and dehumidification (in English)

2:30 - 6:30pm

This workshop provides an overview of cooling and dehumidification strategies for Passive House buildings. After initial considerations on the reduction of cooling energy demand, the main focus will be on the energy efficient and cost-effective supply and distribution of cooling in Passive House buildings in warm climates.

Highly efficient building envelope: Comfortable, practical and economical (in German)

2:30 - 6:30pm

Thermal insulation and airtightness lead to mold, high costs and don't deliver the promised savings? The exact opposite is the case! This workshop will discuss the reasons for this, as well as practical and cost-efficient solutions and how to convince your clients.

Passive House designer course (in German)

6 - 8 March 2018 in Munich,

14/15 March 2018 in Kempten (Bavaria)

www.eza-bildung.de

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 the registration is made before 15 January 2018 and payment is completed by 21 January 2018. 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 received after 20 December 2017 will incur a €70 processing fee while cancellations made as of 20 January 2018 will incur a fee equal to 50% of the total registration fee. The participation fee is to be paid in full in the case of no-show or cancellation on, or after the 10 February 2018. A substitute participant may, however, be nominated.

2. Services

The scope of services includes: the conference proceedings with all written contributions, 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.

3. Cancellation, limitation of liability

In the event that the 22nd Passive House Conference or any part of the framework programme must be cancelled, the participants will be notified immediately and any participation fees already paid will be reimbursed. The liability of the organisers is limited to reimbursement of the paid participation fee only.

Scientific conference advisory board

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Conference 9 and 10 March 2018

Early booking rate (registration by 15 January 2018, payment by 21 January 2018)	€590
Regular rate	€749
Speaker rate Poster presenter rate (Only one speaker/poster presenter discount will be granted for each accepted oral and/or poster contribution)	€210 €380
Student discount (Full-time students only; copy of valid student ID must be enclosed with registration)	50%

One-day conference participation

Early booking rate (registration by 15 January 2018, payment by 21 January 2018)	€430
Regular rate (Please note that no speaker/poster presenter discount is available for one-day conference participation)	€530
Cultural Excursion Munich, Saturday, 10 March, 8:00 pm	€20
Service charge: Only open to conference participants, registration required	

Passive House Networking Party, Friday, 9 March €39
(For conference participants only; limited spaces available)

Passive House excursions: Sunday, 11 March €99
Guided tour (For conference participants only; limited spaces available)

iPHA member discount on prices listed above **10%**

Workshops (5 - 8 March 2018): Conference participant | Standard price

PHPP basics (in German)	€450 €540
PHPP variant calculation (in English)	€290 €350
designPH from beginner to advanced user (in English)	€290 €350
New ventilation concepts (in German)	€290 €350
Airtightness and moisture control in different climates (in English)	€290 €350
Economics of energy efficiency (in German)	€290 €350
Energy efficiency and renewables towards optimal solutions (in German)	€290 €350
Energy efficient hot water systems (in English)	€290 €350
Commissioning and performance optimisation (in German)	€290 €350
Cooling and dehumidification (in English)	€290 €350
Highly efficient building envelope: comfortable, practical and economical (in German)	€290 €350

iPHA member discount for above workshops **€30**

All prices include VAT

Organisers of the 22nd International Passive House Conference:



Passive House Institute

Rheinstraße 44/46 | 64283 Darmstadt | Germany

Under the patronage of:

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Detailed information and online registration:

www.passivehouseconference.org

2018 Conference schedule

05 - 08/3/2018 Workshops

09 - 10/3/2018 22nd International Passive House Conference
and Passive House Exhibition

09/03/2018 Passive House Networking Party

11/03/2018 Passive House Excursions

Conference languages: German and English

Simultaneous translation into English will be provided at all German language sessions. For other languages please contact us.



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