PROGRAMME

MOC | Munich
09 – 10 March 2018

Workshops & Excursions
05 – 11 March 2018

Passive House – it’s worth it!

ArchitekturWerkstatt Vallentin © Jakob Kanzleiter
PLENARY FRIDAY | 9 MARCH 2018

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

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”

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”

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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 pm</td>
<td>Karin Reich</td>
<td>Passive House buildings in the Bavarian State Administration</td>
</tr>
<tr>
<td>1:25 pm</td>
<td>Josef Hochhuber</td>
<td>The Bavarian 10,000-houses-programme – promoting efficient and system-relevant buildings</td>
</tr>
<tr>
<td>1:50 pm</td>
<td>G. Vallentin, R. Vallentin</td>
<td>Passive House development in Munich and Bavaria</td>
</tr>
<tr>
<td>2:15 pm</td>
<td>Alexander Kirschbaum</td>
<td>Monitoring and operational optimisation of a new Passive House school building</td>
</tr>
<tr>
<td>2:40 pm</td>
<td>F. Lang, J. Klaffke</td>
<td>The sustainable city of the future</td>
</tr>
<tr>
<td>3:05 pm</td>
<td>Franz Freundorfer</td>
<td>Passive House through cooperation in regional networks – it’s worth it!</td>
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### Session 3: Projects in North America, Room D 111 (Level 1)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>1:00 pm</td>
<td>Stas Zakrzewski</td>
<td>The importance of embodied energy in today’s Passive House projects: A New York case study</td>
</tr>
<tr>
<td>1:25 pm</td>
<td>A. Arifuzzaman, D. Byrne</td>
<td>750 bed student residence with high occupancy load, is the cost of Passive House worth it?</td>
</tr>
<tr>
<td>1:50 pm</td>
<td>Brandon Nicholson</td>
<td>Passive House proof in Pittsburgh: profit + Paris progress</td>
</tr>
<tr>
<td>2:15 pm</td>
<td>M. Studer, L. Picciano</td>
<td>New market rate projects for the fast growing region of Vancouver</td>
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### Session 2: Components / Building services, Room K 1 (Level 0)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1:00 pm</td>
<td>Dietmar Siegele</td>
<td>Simulation study on the use of enthalpy transducers in cold climates</td>
</tr>
<tr>
<td>1:25 pm</td>
<td>Jörg Wollnow</td>
<td>Hygrothermal safety reserves thanks to hygrobri technology for old and new buildings</td>
</tr>
<tr>
<td>1:50 pm</td>
<td>Solitair Kluth</td>
<td>Fiberglass composite as an innovative building material in the building envelope</td>
</tr>
<tr>
<td>2:15 pm</td>
<td>Rainer Pfluger</td>
<td>Replicable cost-effective solutions for Passive House multi-storey apartment buildings, Campagne-Areal Innsbruck</td>
</tr>
<tr>
<td>2:40 pm</td>
<td>Martin Sambale</td>
<td>Avoiding mistakes through the certification of Passive House buildings</td>
</tr>
<tr>
<td>3:05 pm</td>
<td>Michael Stegemann</td>
<td>Thermal optimisation of anchoring elements, here: masonry bracket</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>1:00 pm</td>
<td>Shane Colclough</td>
<td>The Passive House Standard — a key enabler</td>
</tr>
<tr>
<td>1:25 pm</td>
<td>Birgit Knoch</td>
<td>Luxembourg — not just banks</td>
</tr>
<tr>
<td>1:50 pm</td>
<td>Maarja Meitern</td>
<td>How is energy efficiency connected to value in European markets?</td>
</tr>
<tr>
<td>2:15 pm</td>
<td>Dieter Herz</td>
<td>Implementing and securing Passive House requirements in public construction</td>
</tr>
<tr>
<td>2:40 pm</td>
<td>Nick Grant</td>
<td>Passivhaus for the many not the few</td>
</tr>
</tbody>
</table>
| 3:05 pm | P: Jedliczka                      |Wilhelm von Humboldt | P: Feier, 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)
### Session 5: Cost-effectiveness / Economics in residential buildings, Hall 2 (Level 0)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>4:00 pm</td>
<td>Mario Bodem</td>
<td>Cost reduction through the Passive House Standard — further optimisation approaches</td>
</tr>
<tr>
<td>4:25 pm</td>
<td>Gerrit Horn</td>
<td>True component costs</td>
</tr>
<tr>
<td>4:50 pm</td>
<td>Engelbert Spiß</td>
<td>Showcase project: The first five-Euro Passive House Standard residential building in Tyrol</td>
</tr>
<tr>
<td>5:15 pm</td>
<td>Britta Stein</td>
<td>Reducing utility costs in social housing</td>
</tr>
<tr>
<td>5:40 pm</td>
<td>Andreas Nordhoff</td>
<td>Economic supply of Passive House with heat pump</td>
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#### Session 6: Retrofit projects, Room K 1 (Level 0)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>4:00 pm</td>
<td>Helmut Schöberl</td>
<td>Eberlgasse Passive House retrofit in inhabited state</td>
</tr>
<tr>
<td>4:25 pm</td>
<td>Friedrich-Günther Rentzsch</td>
<td>City of Lübbenau / Spreewald: Integration nursery — Wichtel — in Lübbenau / Spreewald</td>
</tr>
<tr>
<td>4:50 pm</td>
<td>Clemens Le Levé</td>
<td>Ecological retrofit — with a new façade system</td>
</tr>
<tr>
<td>5:15 pm</td>
<td>Jürgen Schnieders</td>
<td>Why older buildings are not heated as much as thought — an attempt to explain</td>
</tr>
<tr>
<td>5:40 pm</td>
<td>R. Iannetti, B. Kaufmann</td>
<td>Reconciling efficiency-cost-effectiveness — PH Standard — affordable apartments in Italy</td>
</tr>
<tr>
<td>6:05 pm</td>
<td>Admir Music</td>
<td>Air distribution in housing — development of the façade</td>
</tr>
</tbody>
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### Session 7: Hot Climates and Summer Comfort, Room D 111 (Level 1)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>4:00 pm</td>
<td>Amarante Barambio Buisan</td>
<td>Passive House users and BIM. How to make the most of revit models on PHPP certifications</td>
</tr>
<tr>
<td>4:25 pm</td>
<td>Francesco Nesi</td>
<td>A systematic LCC analysis for the Mediterranean: the emblematic case of Italy</td>
</tr>
<tr>
<td>4:50 pm</td>
<td>Stefan Pallantzas</td>
<td>Can a single minisplit heat and cool a 100m² Passive House?</td>
</tr>
<tr>
<td>5:15 pm</td>
<td>P. Oliveira</td>
<td>Innovative sustainable construction: Energy independent CLT PH for South Europe</td>
</tr>
<tr>
<td>5:40 pm</td>
<td>P. Dobrevski</td>
<td>How to get cost-effective summer comfort</td>
</tr>
<tr>
<td>6:05 pm</td>
<td>P. Gavião</td>
<td>PH in Brazil: different solutions for different climatic conditions</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>4:00 pm</td>
<td>P. Cuesta, J. Calvo</td>
<td>Passive House users and BIM. How to make the most of revit models on PHPP certifications</td>
</tr>
<tr>
<td>4:25 pm</td>
<td>Tim Martel</td>
<td>Time Saving Tools for PHPP: Window Tool and Lifetime costing with co-benefits</td>
</tr>
<tr>
<td>4:50 pm</td>
<td>Michael Crilly</td>
<td>Convergence and interoperability of BIM with passive design principles</td>
</tr>
<tr>
<td>5:15 pm</td>
<td>Bart Cremers</td>
<td>Effects of condensation in exchangers of ventilation units — analysis of field studies</td>
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<tr>
<td>5:40 pm</td>
<td>Krisjanis Kalnciems</td>
<td>The Passive House Standard as the backbone for successful PPP infrastructure projects</td>
</tr>
<tr>
<td>6:05 pm</td>
<td>P. Hall, P. Vpointi</td>
<td>Hourly-based design tool for determining personal consumption</td>
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<tr>
<td></td>
<td>P. Kampaoupolous</td>
<td>A novel methodology for the optimization of the retrofitting actions during building</td>
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<td></td>
<td>P. Ottenger</td>
<td>Heat losses through internal waste and rainwater pipes — Monitoring &amp; Modelling</td>
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</tbody>
</table>
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”

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

8:30pm - 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”
**PROGRAMME SATURDAY | 10 MARCH 2018**

**MORNING**

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

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
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

12:35 pm  **Martin Endhardt**
Office building using hybrid construction

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

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: Miščević, 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.**

**P: Short presentation (Poster)**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>2:15 pm</td>
<td>Session 13: Cost-effective ventilation solutions for residential construction, Hall 2 (Level 0)</td>
<td>Kristin Bräunlich&lt;br&gt;Component Award for cost-effective home ventilation</td>
</tr>
<tr>
<td>2:40 pm</td>
<td>Ventilation in housing — centralised, decentralised or somewhere in between?</td>
<td>Norbert Stärz</td>
</tr>
<tr>
<td>3:05 pm</td>
<td>New concepts for controlled ventilation: Component-integrated ventilation in residential construction</td>
<td>Tanja Schulz</td>
</tr>
<tr>
<td>3:30 pm</td>
<td>Simple ventilation systems for residential buildings — Investigations in a research apartment</td>
<td>Markus Wirnsberger</td>
</tr>
<tr>
<td>3:55 pm</td>
<td>Summer comfort in residential buildings: additional cooling potential / new evaluation approach</td>
<td>Oliver Kah</td>
</tr>
<tr>
<td>4:20 pm</td>
<td>A perfect combination! Renewable resources and Passive House</td>
<td>W.Opitsch, G. Vallentin, M. Lemoni</td>
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<tr>
<td></td>
<td>Life cycle analyses for residential buildings of various construction types</td>
<td>Stephan Leitschuh</td>
</tr>
<tr>
<td>3:05 pm</td>
<td>Life Cycle Assessment with HEROES — simplified data collection, a holistic approach and optimisation</td>
<td>Christoph Sutter</td>
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<tr>
<td>3:30 pm</td>
<td>Hummel barracks, Graz</td>
<td>Simon Speignier</td>
</tr>
<tr>
<td>3:55 pm</td>
<td>Stadtwerke Neustadt — A Zero Emission Building completed using sustainable construction</td>
<td>Ingo Lüt kemeyer</td>
</tr>
<tr>
<td>4:20 pm</td>
<td>Energy-efficient building in line with room climate aesthetics</td>
<td>Gernot Vallentin</td>
</tr>
<tr>
<td>2:40 pm</td>
<td>Evaluation of a million programme retrofit to Passive House with BIPV roof and façade</td>
<td>Michael Ingui</td>
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<tr>
<td>3:05 pm</td>
<td>Game Changing Realities</td>
<td>Oliver Style</td>
</tr>
<tr>
<td>3:30 pm</td>
<td>Step-by-step or one big jump? A multi-storey residential EnerPHit project in Girona, Spain</td>
<td>J. Steiger, Y. Frank</td>
</tr>
<tr>
<td>3:55 pm</td>
<td>A New York high-rise retrofit study</td>
<td>Esteban Pardo</td>
</tr>
<tr>
<td>4:20 pm</td>
<td>Pilot office building from the national government of Spain meets Passive House and BREEAM</td>
<td>Michael Meyer-Olbersleben</td>
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<td>Testing air-to-air heat pumps under realistic conditions: The influence on its performance</td>
<td>Olav Langenkamp</td>
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<tr>
<td>3:05 pm</td>
<td>External vs internal air tightness: understanding risks in climate specific solutions</td>
<td>Tomas Mikeska</td>
</tr>
<tr>
<td>3:30 pm</td>
<td>Drain Water Heat Recovery – technology principles and planning recommendations</td>
<td>P. Ševela, M. Schulze</td>
</tr>
<tr>
<td>4:20 pm</td>
<td>P: Petran, Life cycle assessment of a small cost-effective PH in Eastern Europe</td>
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**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

**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
ever earlier end possible: 4:00pm Hbf Munich

**Excursion 2 | Munich | 09:00am – 4:30pm**
State Parliament Building | School | Multi-storey apartment building
ever earlier end possible: 4:00pm Hbf Munich

**Excursion 3 | Munich North | 09:00am – 4:30pm**
School | Kindergarten | Office building
ever 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
ever 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)
ever 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
ever 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.

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.

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
CONFERENCE FEES | FURTHER OFFERS

Conference 9 and 10 March 2018

Early booking rate                                                                 €590
(registration by 15 January 2018, payment by 21 January 2018)
Regular rate                                                                                           €749
Speaker rate | Poster presenter rate                                           €210 | €380
(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 registration) 50%

One-day conference participation

Early booking rate                                                                 €430
(registration by 15 January 2018, payment by 21 January 2018)
Regular rate (Please note that no speaker/poster presenter discount is available for one-day conference participation)
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)

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

TERMS AND CONDITIONS

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.

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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:
Ilse Aigner, Bavarian State Minister for Economic Affairs and Media, Energy and Technology

Detailed information and online registration:
www.passivehouseconference.org

2018 Conference schedule
05 - 08/3/2018 Workshops
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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