

25<sup>TH</sup>

# INTERNATIONAL PASSIVE HOUSE CONFERENCE 2021

with Passive House Exhibition

*Passive House -  
the key to  
sustainable  
buildings!*

## PROGRAMME

Kindertagesstätte Wuppertal | Xella Ytong © Holger Krull

### PART 1 Live in Wuppertal & ONLINE 10 + 11 September

Building tours  
12 September

### PART 2 ONLINE 14 + 15 September



Ministry of Economic Affairs,  
Innovation, Digitalization and Energy of the  
State of North Rhine-Westphalia



EUROPEAN UNION  
Investing in our Future  
European Regional  
Development Fund

# INDEX

PART 1

## FRIDAY | SEPTEMBER 10, 2021

10:00 am - 12:15 pm	Opening plenary
12:15 pm - 1:15 pm	Guided tours on-site exhibition Lectures on PH Certification
1:30 pm - 3:45 pm	Session 1 and 2
4:15 pm - 6:30 pm	Session 3 and 4

From 6:45 pm Anniversary celebration,  
Passive House Award 2021 Ceremony

## SATURDAY | SEPTEMBER 11, 2021

9:00 am - 10:00 am	Plenary
10:00 am - 12:15 pm	Session 5 and 6
12:15 pm - 2:15 pm	Component impulse lectures Poster pitches
2:15 pm - 4:30 pm	Session 7 and 8
5:00 pm - 6:30 pm	Plenary

## SUNDAY | SEPTEMBER 12, 2021

Building tours on-site and ONLINE

## TUESDAY | SEPTEMBER 14, 2021

9:00 am - 10:00 am	Plenary
10:00 am - 12:15 pm	Session 9 and 10
12:45 pm - 1:45 pm	Component impulse lectures Poster pitches
2:45 pm - 3:45 pm	Guided tours over the ONLINE exhibition
4:00 pm - 6:15 pm	Session 11 and 12

## WEDNESDAY | SEPTEMBER 15, 2021

10:00 am - 12:15 pm	Session 13 and 14
12:45 pm - 1:45 pm	Component impulse lectures Poster pitches
2:45 pm - 3:45 pm	Guided tours over the ONLINE exhibition
4:00 pm - 6:15 pm	Session 15 and 16
6:30 pm - 8:00 pm	Closing plenary

PART 2

## 10:00 am - 12:15 pm Welcome and plenary presentations



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### **Prof. Dr. Andreas Pinkwart**

Minister of Economic Affairs, Innovation, Digitalization and Energy of the State of North Rhine-Westphalia



© Wolf Sondermann

### **Prof. Dr. Uwe Schneidewind**

Lord Mayor of the City of Wuppertal



© Ingo Lammert /  
Architektenkammer NRW

### **Dipl.-Ing. Architect BDB Ernst Uhing**

President of the Chamber of Architects of North Rhine-Westphalia



© EnergieAgentur.NRW,  
Frank Wiedemeier

### **Dirk Mobers**

Head of Heating & Buildings at EnergyAgency. NRW



© PHI

### **Prof. Dr. Diana Ürge-Vorsatz**

Vice Chairwoman of Working Group III of the Intergovernmental Panel on Climate Change (IPCC) and Professor at the Central European University (CEU)



**Dr. Jürgen  
Schnieders**



**Dr. Wolfgang  
Feist**



**Jessica  
Grove-Smith**



**Dr. Benjamin  
Krick**

The path to a climate-compatible building stock

# FRIDAY | SEPTEMBER 10, 2021

## Session 1 | Highly efficient districts

1:35 pm **Hartmut Murschall**

Passive Houses in 100 climate protection settlements in the sustainable energy state of North Rhine-Westphalia

1:50 pm **Christiane Behrens**

Richard-van-de-Loo-Straße climate protection settlement in Kleve

2:05 pm **Helmut Schöberl**

Preservation order and Passive House: retrofitting the Art Nouveau Otto-Wagner-Areal district in Vienna

2:40 pm **Reiner Wirtz, Ludwig Rongen**

Accommodation building of the Max-Ernst-Schule boarding school in Euskirchen for LVR Cologne

2:55 pm **Jörg Linnig**

Energy-resilient climate protection settlement

3:10 pm **R. Vallentin, S. Früh, G. Schuler, M. Rezwan**

Partner projects as "PER cooperation model" for Passive Houses

## Session 3 | Passive Public Housing

4:20 pm **Georg W. Reinberg**

"BikesRails": a Passive House as a part of social, technical and urban innovation

4:35 pm **Norbert Stärz**

WohnSinn Bessungen – just your average Passive House?

4:50 pm **Tanja Schulz**

Affordable and energy-efficient multi-storey social housing

5:25 pm **Søren Peper**

Increased satisfaction, decreased consumption and lower summer temperatures: BuildTog Passive House Bremen

5:40 pm **Marc Großklos**

Experiences of operating two Passive Houses in social housing

5:55 pm **Christian Schlüter**

Model projects for sustainable and affordable living in Wuppertal and Bochum – "Variowohnung" housing

German

German

# FRIDAY | SEPTEMBER 10, 2021

## Session 2 | Sustainability scenarios

1:35 pm **Rainer Vallentin**

Global carbon-budget for buildings

1:50 pm **Jörg vom Stein**

Co-working space as a Passive House

2:05 pm **Susanne Körner**

Passive House Standard in straw-bale construction for increased sustainability & climate protection

2:40 pm **Bernd Steinmüller**

Secure supply during dark doldrums – Passive Houses as additional power plants (grids)!

2:55 pm **Simone Kreutzer Wesslund**

From Passive House "Classic" to Passive House "Eco" to Passive House "Zero"

3:10 pm **Oliver Ottinger**

Is becoming climate-neutral realistic?

German

## Session 4 | Summer comfort and cooling concepts

4:20 pm **Soraya López García**

Guidance for robust summer comfort design

4:35 pm **Oliver Style**

Keep cool and carry on: Passivhaus cooling experiences in the warm climates

4:50 pm **Jesus Menendez**

Passivhaus Plus high school in warm climate

5:25 pm **Oliver Kah**

Passive House non-residential buildings against the background of increasing heat waves

5:40 pm **Adrian Muskatewitz**

Solar-electric cooling – potential and limitations

5:55 pm **Laszlo Lepp, Daniel Neyer**

Passive Houses and solar cooling in hot and humid climates (sol.e.h.<sup>2</sup> part 1/2)

English

German

# Award ceremony

## Passive House Award 2021

International architecture  
competition  
for energy efficient buildings

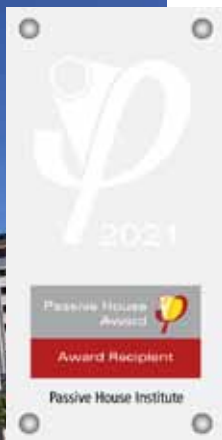
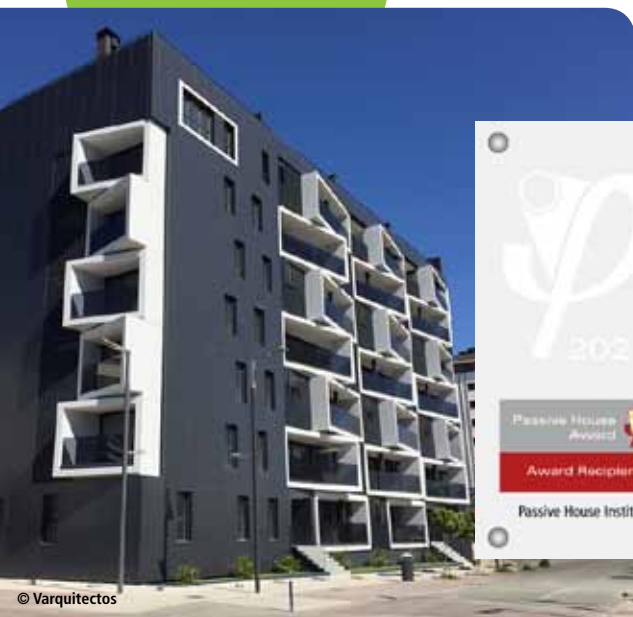
The award ceremony of the Passive House Award 2021 will start on September 10 at 6:45 pm.

The winners of the individual categories and special awards will be announced on site and will also be streamed live from the Historische Stadthalle Wuppertal.

The Passive House Award 2021 shows in an impressive way that outstanding architecture can be extremely energy efficient at the same time.

Following:

Passive House  
Anniversary  
celebration



# Supporters and sponsors of the Passive House Award 2021

## Supporters:

EnergieAgentur.NRW 



## Sponsors:

**SIGA**  1966

**SWISSPACER**  
The edge of tomorrow.

 **SCHÖCK**  
Zuverlässigkeit trägt



 **BlowerDoor GmbH**  
MessSysteme für Luftdichtheit

## Organisers:



**IG PASSIVHAUS**  
Informations-Gemeinschaft Passivhaus Deutschland



International  
**PASSIVE HOUSE**  
Association



2021

Passive House  
Award



# Component impulse presentations and poster pitches

New!

In 3-minute impulse presentations, products related to the Passive House will be introduced and the poster contributions presented. You can look forward to product presentations and content that will be briefly and succinctly brought to the point by the manufacturers and speakers.

The new moderated formats will also give you the opportunity to ask questions and set the course for further exchange with the Passive House experts. The component impulse lectures and poster pitches will always take place live at the same time and will be available as a recording after the conference.

In addition, the component impulse lectures are also available to the public via the free ONLINE Passive House trade exhibition. The poster pitches, on the other hand, are exclusively accessible to conference participants via the conference platform.

## Schedule of the component impulse presentations and poster pitches

**September 11, 2021**

**Both from 12:45 pm to 1:45 pm**

Live in the Historische Stadthalle Wuppertal, transmitted via live stream on our conference platform

**September 14 and 15, 2021**

**Both from 12:45 pm to 1:45 pm**

Online via our conference platform



## PLENARIES | SEPTEMBER 11, 2021

**9:00 am - 10:00 am** Plenary presentation



**Jens Schuberth**

German Umweltbundesamt

**"13 statements for a greenhouse gas neutral building stock"**

**5:00 pm - 6:00 pm** Plenary presentation



**Prof. Dr. Ernst Ulrich von Weizsäcker**

**"Climate has become a big issue. Does the building industry already know that?"**

Droughts, sea-level rise, freshwater scarcity, winter tourism - these are all issues that depend on the climate. In the German-speaking world, climate has become the Big Issue. The building industry was a big climate polluter. What is the turnaround? Technology, craft training, user behaviour and politics play the most important roles.

## PLENARY | SEPTEMBER 14, 2021

**9:00 am - 10:00 am** Plenary presentation



**Prof. Dr. Dirk Messner**

President of the German Umweltbundesamt

# SATURDAY | SEPTEMBER 11, 2021

## Session 5 | Energy consulting for buildings in Germany

German

10:05 am **Gerald Lange**

EnerPHit retrofit for Plus Energy House

10:20 am **Bernd Steinmüller**

Model project: sustainably transforming existing old single-family homes into premium Passive multi-family housing

10:35 am **Dieter Herz**

Retrofitting a gymnasium with TES façade elements

11:10 am **Susanne Schwickert**

User satisfaction versus air quality – ventilation in classrooms

11:25 am **Susanne Theumer**

Comparing BEG and the EnerPHit Standard based on a single-family home

11:40 am **Axel Bretzke**

Does quality assurance of energy-efficient design help reduce construction costs?

## Session 7 | Prefabricated retrofitting outPHit

German

2:20 pm **Gerhard Kopeinig**

Prefabricated EnerPHit retrofit with wood modules

2:35 pm **Michael Langkau, Roland Matzig**

SAINT-GOBAIN pre.Formance – prefabricated system for efficiently retrofitting residential buildings

2:50 pm **Clarence Rose**

Living cost-neutral EnerPHit retrofits on the rise

English

3:25 pm **Ron Beattie**

Making existing homes fit for the future with TCosy Passive Retrofit

3:40 pm **Rainer Pfluger**

Different ways and possibilities for application methods of serial renovation - outPHit

3:55 pm **E. Vekemans, T. Giraudeau, S. Cochet, P. Liret**

Deep Retrofits / outPHit : Lessons learned out of realised outPHit (EnerPHit/Energiesprong)

# SATURDAY | SEPTEMBER 11, 2021

## Session 6 | Ecological construction material

10:05 am **Benjamin Krick**

Life cycle balances of Passive House building components

10:20 am **Martin Aichholzer**

Taking the Passive House concept even further – consumption in operation and impact on buildings

10:35 am **Jörg Linnig**

Ärztehaus Waldbröl medical centre celebrates 20 years of proven sustainability – a progress report

11:10 am **Katharina Prinzing**

Timbered Passive House – a holistic evaluation

11:25 am **Gerrit Horn**

Using the natural resource wood in constructing timbered Passive Houses

11:40 am **Anja Rosen**

Recyclable Passive Houses – construction and evaluation with the Urban Mining Index

German

## Session 8 | It keeps getting better - using Passive House components

2:20 pm **Adrian Muskatewitz**

Limitations to thermal bridge prevention in construction: column connections

2:35 pm **Jürgen Schnieders**

Efficient electric hot water production in newly built or retrofitted multi-family houses

2:50 pm **Franz Freundorfer**

The first sliding door in the pH+ energy efficiency class – the best there is

3:25 pm **Arnold Drewer**

Insulation materials and their properties

3:40 pm **Bjørn Kierulf**

Building the future with carbon storing prefab walls

3:55 pm **Markus Wolf, Philipp Weßling**

Tapping into the market with straw-bale construction – the success story of Zimmerei Grünspecht eG

German

**SATURDAY | SEPTEMBER 11, 2021**

**Component impulse presentations**

**12:45 pm - 1:45 pm**

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**Michael Schalk**

Systemlösung für dezentrale Wohnraumlüftung im Wohnbau

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**Peter Hanken**

GasSTOPP Luftdichtungsmanschetten

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**Rafael Bravo Antolín**

All-in-one HVAC+DHW+Solar thermal&PV&Indoor Air Quality Control (Anti-virus treatment)

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**Rainer K. Schmidt**

Innovationen beim Bauen mit Stroh

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**John Egan**

Cellulose as an ecological insulation strategy for social Passive House schemes

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**Gemma Anguera Bellet**

Prefabricated system for custom-made concrete Passive Houses

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**Jörg Gerl**

1000WB - online-Datenbank für Wärmebrückendetails

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**Paola Brugnara**

Analysis of thermal bridges in correspondence of innovative metal connectors

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**Patrica Sulzbach**

Schöck schließt die letzte große Wärmebrücke an Gebäuden (Stahlbetonwänden @-stütze)

(German contributions with simultaneous English translation)



12:45 pm - 1:45 pm

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### Andrew Michler

Temporal\_haus Near Zero Carbon Climate Refugee Housing Proposal for Los Angeles

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### Szabolcs Varga

Is the Passive House Standard the Key to Secure nZEB Compliance? The Romanian Case Study

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### Sofia Piperou

nZEBO: a dog warrior leads us to the future of the buildings

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### Alice Tosatto

Role of Passive Buildings in the achievement of the EU55 targets in Austria

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### Alejandro Moreno Rangel

Latin American Passivhaus approach: an exploration of SDGs and policy

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### Marta Epelde

Indoor Air Quality and Thermal Bridges: a two-way path.

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### Enrico Bonilauri

Moisture Protection: From Field Data to advanced design methods

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### Esther Gollwitzer

Raumbuch = Struktur, Dokumentation, Kommunikation und Nebenrechnung

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### Jing Sun

Erfahrung des Vermitteln des Passivhaus-Wissens im Ökopark, Qingdao

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### Naemi Maile, Axel Bretzke

Sorptive- kapillaraktive Mineraldämmstoffe für die Innendämmung, ein Massenlösung?

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### Michael Wehrli

Umgang mit Internen Leckagen der Luftdichtheit bei Wohnungen von Minergie-P-MFH

(German contributions with simultaneous English translation)

# Passive House certification Quality assured!



- \* comfortable
- \* sustainable
- \* affordable



## Passive House and EnerPHit Certification

### Careful quality check for residential and non-residential buildings

The certifier checks the execution planning carefully and comprehensively. A certificate is only issued if the precisely defined criteria have been met without exception.

### Advantages

- **Certainty** that the agreed upon energy standard will actually be achieved
- **Error prevention** through external checking of the design prior to the start of construction
- **Increased property value** through independent quality assessment
- Submission of the Certified Passive House verification for **grant programme**
- Recognition as a **Certified Passive House Designer** is possible by submitting a certified building



Further information: [passivehouse.com](https://passivehouse.com) >  
certification > buildings > building certification guide >  
Passive House certifier for buildings

## Building tours

This year, we are once again offering you the opportunity to gain insights into current Passive House projects. Join our on-site excursions in Wuppertal and the surrounding area on Sunday, September 12, 2021 and discover Passive House projects from around the world as part of our ONLINE excursions.

Look forward to exciting and innovative projects. Experience sustainable buildings with comfort - for living and working and as meeting places for young and old. Find out about topics such as ventilation systems, insulation and how to avoid thermal bridges and learn from personal experiences and challenges and the associated individual solutions.

For more information on the planned excursions, please visit our conference website at

**[www.passivehouseconference.org](http://www.passivehouseconference.org)**

## Presentations on Passive House Certification

Passive House Certifications - Quality Assurance for Buildings and Education. Would you like to learn how Passive House certification of buildings and professionals works and how you can incorporate it into your company or institution?

Then join the on-site and online event "Passive House Certifications - Quality Assurance for Buildings and Education", where Corinna Geiger and Susanne Winkel from the Passive House Institute will share their insights and be available for questions to pave the way for future collaboration.

**10 September 2021, 12.15 pm**

In the large hall, following the opening plenary session

# TUESDAY | SEPTEMBER 14, 2021

## Session 9 | Ventilation and heating

10:05 am **Berthold Kaufmann**

Ventilation systems combined with heat pump for heating, cooling and domestic hot water

10:20 am **Lois Arena, Kimberly Llewellyn**

Landmines & Red Flags: How to avoid these when designing VRF space conditioning systems

10:35 am **Hannah Jones**

The application of ambient loop district heating in multi-residential Passive Houses

11:10 am **Esther van Eeden, Jonathan Kearns**

Isolation Environments: How Passive House = Passive Health

11:25 am **Alan Clarke**

Experience of air to water heat pumps for single family Passivhaus dwellings

11:40 am **William Monteleone**

Development of a modular heat pump with compact and silent façade-integrated outdoor unit

## Session 11 | Future prospects - communication and dissemination

4:05 pm **Ingrid Westman**

Don't ask the client - just do it!

4:20 pm **Pablo Carranza Navarro**

Turning carbon into diamond in a sustainable and replicable way.

4:35 pm **Vladimir Pezel**

From a client to a CPHD - Passive House certification journey

5:10 pm **Garth Grunerud, Sonia Zouari**

Parks Canada newest discovery centre, lab & office leading PH+ greening government vision

5:25 pm **Stefanos Pallantzias**

„Show me your Passive House!": A communication strategy for better buildings

5:40 pm **Ann-Marie Fallon**

A Scottish EnerPHit retrofit plan: Upgrading the educational estate in an UNESCO World Heritage Site

English

English



# TUESDAY | SEPTEMBER 14, 2021

## Session 10 | International Passive House projects

10:05 am **Allison Holden-Pope**

The Fold Passive Duplex Plus: Lock-off suites provide density and flexibility

10:20 am **Ifrah Ariff**

Evaluating energy use in two Passive House Plus dwellings in the UK

10:35 am **Cillian Collins**

SoLo prototype and lessons learned for larger scale mass timber Passive House projects

11:10 am **Camille Sifferlen**

Passive House concepts for India

11:25 am **Bartosz Krolczyk**

The Passive House with a winter garden – the first PH Plus certified house in Poland

11:40 am **Marcus Strang**

Passive House Standard for CLT NZEB in tropical climates

English

## Session 12 | Monitoring and quality assurance

4:05 pm **Stefanie Rolfsmeier**

Luftdurchlässigkeitsmessung eines 125 m hohen Hochhauses (Projekterfahrung)

4:20 pm **Søren Peper**

Massenhaft realisierte Verbesserungen (SINFONIA Innsbruck)

4:35 pm **Walter Orlik**

Elf Jahre Bahnstadt Heidelberg: Qualitätssicherung und Monitoring

5:10 pm **Rolf Demmler**

Real-life performance evaluation of eco-city Passive House apartments in Tianjin, China

5:25 pm **Shane Colclough**

Deep energy retrofits: Who benefits, who pays & how to inform effective policy development

5:40 pm **Evangelia Mitsiakou**

Less than 2%: „Reimagine“ the building to verify how much extra Passivhaus costs.

German

English

# Passive House Institute

Your competent partner for consulting on innovative projects and components.



photo © Graeme McDonald

We also provide support and advice in the development of Passive House building components and the creation of energy concepts for all manner of buildings. Please feel free to contact us at:

Benjamin.Krick: [components@passiv.de](mailto:components@passiv.de)

Zeno Bastian: [building.certification@passiv.de](mailto:building.certification@passiv.de)



*Passive House  
Institute*

- Research and consultancy
- Dynamic building simulations
- Passive House building certification
- Development and certification of Passive House building components
- International Passive House Conference
- Passive House Designer/Tradesperson course materials
- PHPP – the Passive House design tool
- International Passive House Association

[www.passivehouse.com](http://www.passivehouse.com)

12:45 pm - 1:45 pm

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### Mo Pengcheng

Analysis On Improving Air Tightness of Passive House Measures from Perspective of Testing

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### Toby Cambray

Should we use hydrophobic treatments to reduce moisture risk with Internal Wall Insulation

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### Neha Das

Comparing Thermal comfort and Energy performance evaluation in Vernacular and Contemporary

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### Macjel Kasperek, Paul Smith

Design tool to analyse impact of early stage design choices in affordable homes schemes

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### Sarah Lewis

Adapting PHPP to reflect periodic heating patterns

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### Aurelia Lippolis

Auxiliary Tools supporting the PHPP modelling

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### Camilo Bravo Orlandini

Performance of a Single-Family House in Chile Built to Passivhaus Standard

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### Mark Siddall

Larch Corner: An In Depth Case Study

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### Alex Towler, Laurie Michaelis

Pioneering and innovative EnerPHit Plus

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### Stuart Hood

Vancouver Fire Hall 17: Designing Larger-Scale, Complex Passivhaus Buildings

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### Margarita Lemoni

Greek-German Passive House collaboration in the year of a pandemic

# WEDNESDAY | SEPTEMBER 15, 2021

## Session 13 | Energy efficient non-residential buildings

English

10:05 am **Elise Woestyn, Elena Reyes**

Charting new territory in Passive House:  
Vancouver Fire Hall 17

10:20 am **Dragos Ionut Arnautu, Marius Soflete**

Lessons learned from the first certified office building in  
Romania (PHILEB)

10:35 am **Allan Smith, Will South**

A comparison between two identical nurseries in  
Scotland - one Passivhaus one traditional

11:10 am **Alan Clarke**

Low energy free-running paper stores:  
Moisture buffering model and monitored data

11:25 am **Adelina Uriarte Gonzalo-Bilbao, Pedro Mariñeralera**

Students' dormitory in Vitoria-Gasteiz /Basque C-Spain:  
A standard project becomes a Passive House

11:40 am **Marco Filippi**

EnerPHit school in Collecchio, Parma

## Session 15 | Recommendations on how to implement PH

English

4:05 pm **Marine Sanchez**

Successful PH feasibility study: How to guide a team  
through a front-loaded design process

4:20 pm **Greg Hoffart**

Passive or nothing; Passive Simple!!

4:35 pm **Szabolcs Varga**

A comparative life cycle CO<sub>2</sub> analysis of a step-by-step  
EnerPHit versus a shallow retrofit

5:10 pm **Nick Grant**

Heating load as a design target revisited

5:25 pm **Pablo Carranza Navarro**

STOP (Strategies To Obtain Passivhaus)

5:40 pm **Fabian Ochs**

The role of energy storage in buildings, micro and  
macro economic considerations

# WEDNESDAY | SEPTEMBER 15, 2021

## Session 14 | Policy, networks and education

10:05 am **Ann-Marie Fallon**

Scotland's education estate: Policy ambitions at scale

10:20 am **Yetsuh Frank**

Passive House Retrofits: Climate action in the Northeast US

10:35 am **Giorgia Tzar**

The International Passive House Association: Growing the Passive House movement worldwide

11:10 am **Tomas O'Leary**

Using analogies for fun and impactful Passive House education

11:25 am **Maria del Carmen Rivero**

Passive House site supervisors: Skills and knowledge for successful PH building sites

11:40 am **Bega Clavero**

Start walking and the path will become clear: Lessons learned during 10 years of Passivhaus

English

## Session 16 | PHPP and other tools

4:05 pm **Esther Gollwitzer**

Multi-pane windows in the PHPP

4:20 pm **Tobias Unger**

Optimisation approaches for affordable and energy-efficient construction

4:35 pm **Susanne Theumer**

Energy consulting with PHPP

German

5:10 pm **Deborah Byrne, Kelly Fisher**

Affordable housing: Mitigating costs by enhanced PH coordination

5:25 pm **Wolfgang Hasper**

Post-occupancy monitoring: What to observe, how to select equipment

5:40 pm **Gwilym Still**

Passivhaus student accommodation: Lessons learnt in the UK

English

# Passive House courses and E-learning



**Gain knowledge for the design and construction of highly energy efficient buildings.**

The Passive House Institute, together with numerous partner organisations worldwide, offers a variety of training courses and awards certificates and seals for successfully trained tradespersons and designers/consultants.

**Informations for professionals and educational institutions at:**

**[www.passivehouse.com/training](http://www.passivehouse.com/training)**



12:45 pm - 1:45 pm

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### **Bart Cremers**

Why balanced ventilation outperforms window ventilation

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### **Jiandong Li**

Comparison of international standards for air to air energy recovery ventilators

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### **Edward Lowes**

Calculation of equivalent thermal conductivities for Passive House construction systems

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### **Tomaz Stich**

Prefabricated Certified Passive House in the Rocky Mountains

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### **Ilka Cassidy**

The Glue that Binds: Single Integrated Manufacturing Models and Off-Site Prefabrication

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### **Ioannis Benos**

Prefabricated wooden mansion in Corfu island

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### **Julien Rivat**

Concrete vs Straw during strong heat wave, monitoring data

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### **Shatakshi Suman**

Optimization of window design

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### **Dimitris Pallantzias**

Simulation of an earth-to-air heat exchanger into the PHPP; SHX Tool

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### **Alexandra Mangina, Dimitris Pallantzias**

Feasibility Study in a neighbourhood in Athens

International

**PASSIVE HOUSE**

Association



## iPHA – The International Passive House Association

The global Passive House network for energy efficiency in construction

iPHA works to promote the Passive House Standard and foster a greater public understanding of its significance.



**comfortable**  
**affordable**  
**sustainable**



© Peter Aaron / OTTO

Encouraging the global exchange of Passive House knowledge, iPHA communicates with the media, the general public and the entire range of construction professionals.

### Reap the benefits of iPHA membership:

- Passipedia, the wiki-based Passive House resource
- The iPHA forum, a dynamic platform for exchange
- Presentation in the iPHA member database
- Newsletters detailing Passive House developments
- Discounts on Passive House Institute services and events
- An array of expert material



*Passive House  
Institute*



**iPHA  
Affiliate**

**Join iPHA today!**

**[www.passivehouse-international.org](http://www.passivehouse-international.org)**



## Schedule

The 25th International Passive House Conference 2021 is planned as a hybrid event and will take place ONLINE and on-site at the Historische Stadthalle Wuppertal.

It is composed of two parts: On September 10 and 11, 2021, the first part of the conference is planned, broadcasted as a live stream from the Historische Stadthalle Wuppertal, with audience.

This will be followed, on Sunday, September 12, by on-site excursions in Wuppertal and the surrounding area, as well as ONLINE excursions to built Passive House projects.

The second part of the conference, on September 14 and 15, 2021 will be held as an ONLINE-only event.

## Conference fees

We would like to make it possible for you to participate in the conference in any case. For this purpose, we have provided 2 ticket options:

You can attend part 1 of the conference in the Historische Stadthalle Wuppertal and experience part 2 ONLINE **or** enjoy the complete conference in a live stream ONLINE at home.

This results in the following booking options, which you can choose in our online ticket store:

## Participation online and in Wuppertal

Conference ticket - Early bird	600 €
Conference ticket - Regular price	750 €
Conference ticket - Speaker	250 €
Conference ticket - Poster speaker	375 €

## Participation online only

Conference ticket - Early bird	300 €
Conference ticket - Regular price	450 €
Conference ticket - Speaker	150 €
Conference ticket - Poster speaker	225 €

**As member of iPHA, IG Passivhaus or Passivhaus Austria you will receive a discount of 25% on the above prices.**

**Students receive a discount of 75% on the above prices.**

**(Full-time students only, copy of student ID must be presented)**

## Building tours

to built Passive Houses on site in Wuppertal and surroundings (Online building tours included in the conference ticket)	100 €
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All prices include VAT.

For further information on ticket purchase, cancellations, services, cancellation, changes and data processing, please refer to the General Terms and Conditions at [www.passivehouseconference.org](http://www.passivehouseconference.org)

## Passive House Exhibition

Both in new buildings and in the modernization of old buildings, passive house components with their outstanding quality ensure a high level of comfort and the lowest energy costs.

Whether insulation materials, windows or ventilation units with heat recovery - the leading suppliers of Passive House components are represented at the trade exhibition. As a visitor, you will also receive first-class advice, information material, demonstration objects and always an open ear for your questions.

### On-site

Date: Friday, September 10 and  
Saturday, September 11 2021

Location: Historical City Hall Wuppertal

Only accessible to conference participants

### ONLINE

Wednesday, September 1 - Thursday,  
September 16, 2021

Open to public and free of charge

## The trade exhibition is aimed at:

Architects | Planners | Property developers

Engineering offices | Energy consultants

Energy suppliers | Tradeworkers

Science & Research | Trade | Investors

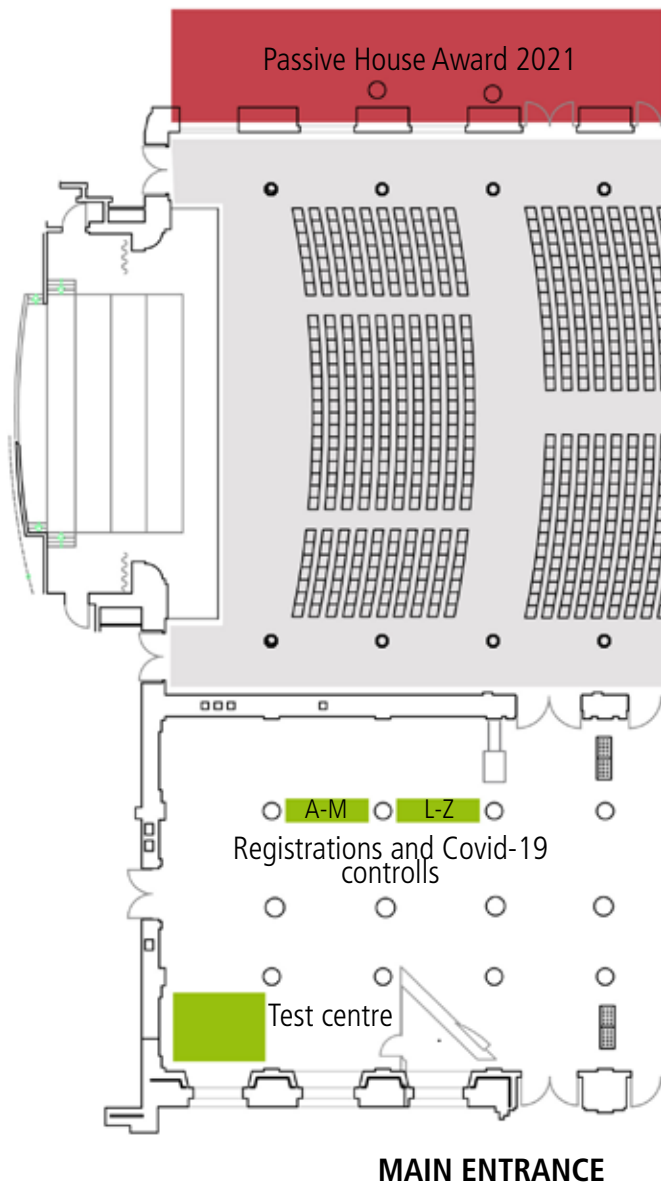
Industry | Municipalities | Building families

## Exhibition topics

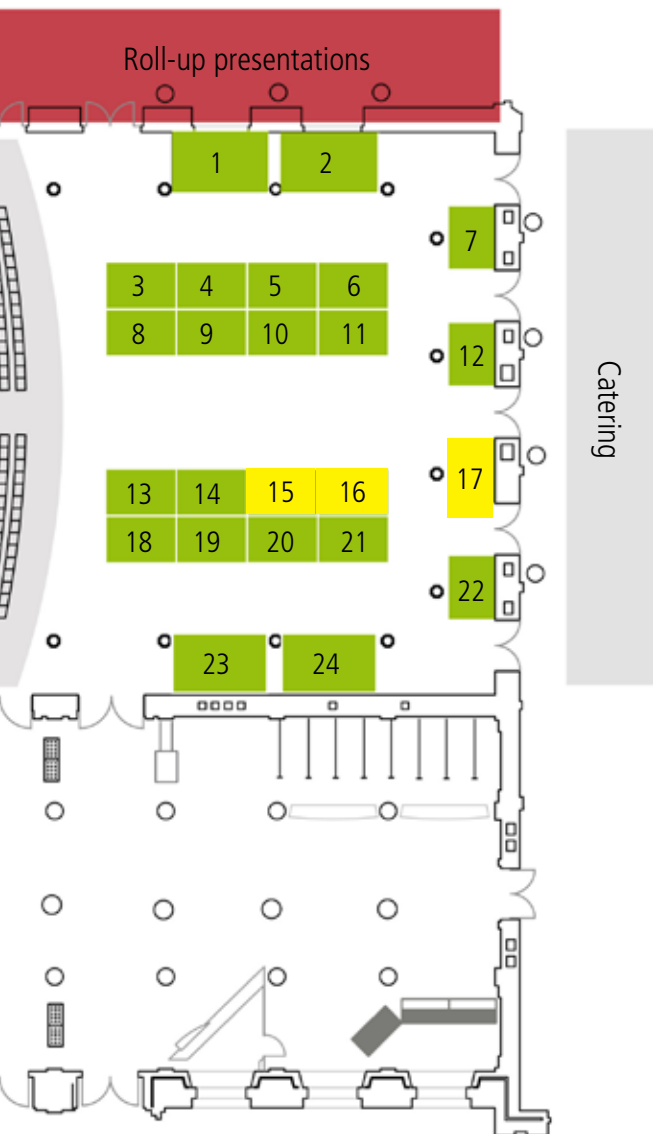
- Thermal insulation and connection solutions
- Windows and doors
- Ventilation systems with heat recovery
- Heat pump compact units, air-conditioning split units
- Geothermal heat exchangers
- Furnaces and heating systems, solar/PV systems
- Measuring devices for the control of airtight construction and ventilation technology, infrared cameras
- Products for airtightness
- Prefabricated houses and building components
- Solutions for construction companies, trade associations, architecture and engineering offices, energy consultants
- Software, technical literature, further education
- Renewable supply solutions for Passive Houses



# PASSIVE HOUSE EXHIBITION



# HALL PLAN



## PASSIVE HOUSE EXHIBITION

1 Wolf GmbH

2 EnergieAgentur NRW GmbH

3 ACIN instrumenten

4 SIGA Cover AG

5 GIH Bundesverband e.V.

6 OPTIWIN GmbH

7 Sonnenhaus-Institut e.V.

8 pro Passivhausfenster GmbH

9 J. PICHLER GmbH

10 Schöck Bauteile GmbH

11 SWISSPACER Vetrotech Saint-Gobain  
(Int.) AG

12 1000WB GmbH

13 Technoform Glass Insulation GmbH

14 Joulia SA

15-16 IG Passivhaus Deutschland  
International Passive House Association  
Passivhaus Austria

## PASSIVE HOUSE EXHIBITION

17 Passivhaus Institut GmbH

18 bluMartin GmbH

19 Meltem Wärmerückgewinnung GmbH  
& Co.KG

20 Eisedicht GmbH

21 Gerd Thien jr.

22 STEICO SE

23 Moll bauökologische Produkte GmbH

24 Rotho Blaas Srl



© Historical City Hall Wuppertal, Photo: Lars Langemeier

## **1000WB GmbH**

Max-Liebermann-Str. 24  
99099 Erfurt  
GERMANY

ig@1000wb.de  
www.1000wb.de  
**Stand Nr.: 12**

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## **ACIN instrumenten**

Handelskade 76  
2288 Rijswijk  
NETHERLANDS

nj.bink@acin.nl  
www.acin.nl  
**Stand Nr.: 3**

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## **bluMartin GmbH**

Argelsrieder Feld 1b  
82234 Weßling  
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www.blumartin.de  
**Stand Nr.: 18**

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## **Eisedicht GmbH**

Industriestraße 3  
32694 Dörentrup  
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## **EnergieAgentur NRW GmbH**

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42103 Wuppertal  
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info@energieagentur.nrw  
www.energieagentur.nrw  
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## **Gerd Thien jr.**

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**Stand Nr.: 21**

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## **GIH Bundesverband e.V.**

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www.ghi.de  
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## **IG Passivhaus Deutschland**

Rheinstraße 44-46  
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## **International Passive House Association**

Rheinstraße 44-46  
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## **J. PICHLER GmbH**

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AUSTRIA

office@pichlerluft.at  
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## **Joulia SA**

Zentralstrasse 115  
2503 Biel  
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www.joulia.com  
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## **Meltem Wärmerückgewinnung GmbH & Co.KG**

Am Hartholz 4  
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## **Moll bauökologische Produkte GmbH**

Rheintalstraße 35-43  
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## Passivhaus Austria

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## Passivhaus Institut GmbH

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## pro Passivhausfenster GmbH

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## Rotho Blaas Srl

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schoeck@schoeck.com  
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## SWISSPACER Vetrotech Saint-Gobain (Int.) AG

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info@swisspacer.com  
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**Stand Nr.: 11**

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info.oesde@technoform.com  
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## Organising body:



**Passive House Institute**

Rheinstraße 44/46 | D-64283 Darmstadt, DE

## Co-organising bodies:

**EnergieAgentur.NRW**



**universität  
innsbruck**

## Under the patronage of:

Ministry of Economic Affairs,  
Innovation, Digitalization and Energy of the  
State of North Rhine-Westphalia



**Information on training points and online registration at:**  
[www.passivehouseconference.org](http://www.passivehouseconference.org)

## Schedule: 25th International Passive House Conference 2021

01-16 September

ONLINE Passive House Exhibition

10.+11. September

PART 1 Conference programme and  
Passive House Exhibition

11. September

Passive House Networking Party

12. September

Passive House anniversary celebration

14.+15. September

PART 2 Conference programme

## Conference languages: German and English

Selected German presentations will be translated into English.

## With kind support from:



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