

Organisers of the 18th International Passive House Conference:



Under the patronage of:

Johannes Rimmel

Ministry for Climate Protection, Environment, Agriculture, Nature Conservation and Consumer Protection of the German State of North Rhine-Westphalia

Ministerium für Klimaschutz, Umwelt, Landwirtschaft, Natur- und Verbraucherschutz des Landes Nordrhein-Westfalen



» Registration by post:

Passive House Institute | Rheinstraße 44/46
64283 Darmstadt | Germany

» **Online registration:** www.passivehouseconference.org

» 2014 Conference schedule

23 April 2014	Passive House Basics Course
23 April 2014	Passive House Windows Workshop
24 April 2014	Passive House Components Workshop
25-26 April 2014	18th International Passive House Conference and Exhibition, Eurogress Aachen
27 April 2014	Passive House Excursions

» Conference languages: German and English

Simultaneous translation into English will be provided at all German language sessions.

Supported by:



» Conference: Friday and Saturday, 25 and 26 April 2014

Early booking:	€530
(registration by 28 February 2014, payment before 7 March 2014)	
Regular rate:	€650
Speaker rate:	€190
Poster presenter rate:	€360
(Only one speaker/poster presenter discount will be granted for each accepted oral and/or poster contribution)	
Student discount:	50%
(Full-time students only; copy of valid student ID must be enclosed with registration)	

» One-day conference participation

Early booking rate:	€390
(registration by 28 February 2014, payment before 7 March 2014)	
Regular rate:	€480
(Please note that no speaker/poster presenter discount is available for one-day conference participation)	

» Evening Event: Friday, 25 April 2014

Buffet dinner in the Coronation Hall of the town hall (limited space available)	€79
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» Passive House Excursion: Sunday, 27 April 2014

Guided tour: (For conference participants only; limited space available)	€95
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iPHA and iPHA Affiliate members receive a discount on all prices listed above: 10%

» Passive House Basics Course, Wednesday, 23 April, 9.00am - 5.00pm

Conference participant rate:	€300
Non-participant rate:	€400
iPHA and iPHA Affiliate member discount/student discount:	50%

» Passive House Windows Workshop for Experts, Wednesday, 23 April, 11.00am - 5.00pm

Conference participant rate:	€300
Non-participant rate:	€400
iPHA and iPHA Affiliate member discount/student discount:	50%

» Passive House Components Workshop, Thursday, 24 April, 10.30am - 5.00pm

For conference participants only:	€150
iPHA and iPHA Affiliate member discount/student discount:	50%

» All prices include VAT

» 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 28 February and payment is completed before 07 March**, respectively. Only those who have paid the applicable fees in full will be admitted to the conference. Only cancellations in writing will be accepted. All cancellations after 28 February 2014 will incur a €70 processing fee while cancellations made as of 28 March 2014 will incur a fee equal to 50% of the total registration fees. The participation fee is to be paid in full in case of no-shows and cancellations as of 14 April 2014; a substitute participant may, however, be named.

» 2. Services

The scope of services includes: the conference proceedings complete with conference presentations, 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. Conference participants will receive a free **AVV-Kombiticket, valid from 24 through 27 April 2014**, allowing the use of all public transport within the city of Aachen as well as the districts of Heinsberg and Düren.

» 3. Cancellation, restriction of liability

In the event that the 18th Passive House Conference or any part of the framework programme must be cancelled, the participants will be notified immediately and will be reimbursed any participation fees already paid. The liability of the organisers is limited to reimbursement of the paid participation fee only.

» 4. Conference scientific advisory board

Joachim Decker, Wuppertal (DE) | Bernd Deil, Aachen (DE) | Roland Digel, Osnabrück (DE) | Sabine Djahanschah, Osnabrück (DE) | Wolfgang Feist, Innsbruck (AT) | Esther Gollwitzer, Darmstadt (DE) | Harald Halfpaap, Hannover (DE) | Robert Hastings, Wallisellen (CH) | Olivier Henz, Verviers (BE) | Bjorn Kierulf, Senec (SK) | Helmut Krapmeier, Dornbirn (AT) | Simone Kreutzer, Växjö (SE) | Benjamin Krick, Darmstadt (DE) | Ulrike Leidinger, Aachen (DE) | Ljubomir Mišević, Zagreb (HR) | Dirk Möbers, Wuppertal (DE) | Werner Neumann, Frankfurt (DE) | Søren Pedersen, Næstved (DK) | Rainer Pfluger, Innsbruck (AT) | Ludwig Rongen, Wassenberg (DE) | Burkhard Schulze Darup, Nürnberg (DE) | Rolf-Peter Strauß, Bremen (DE) | Anke Unverzagt, Hannover (DE) | Bernd Utesch, Frankfurt (DE) | Etienne Vekemans, Paris (FR) | Estelle Wüsten, Frankfurt (DE) | Mark Zimmermann, Dübendorf (CH)

» Excursions

On Sunday, 27 April 2014, participants are welcome to attend one of the tours to visit Passive House buildings, both new builds and refurbishments. All tours include transfer, on-site tours, translation into English and lunch. Bookings possible for Conference participants only. (space limited)

Meeting point: Eurogress Aachen, Entrance Monheimsallee. Unless otherwise stated, all tours end at the City of Aachen Main Station.

TOUR 1 | Aachen I: Education | 9am - 3pm

Youth centre (new build) | school (retrofit/new build) | kindergarten (retrofit/new build) | school cafeteria (new build)

TOUR 2 | Aachen II: Education | 9am - 3pm

Kindergarten (retrofit/new build) | kindergarten (new build) | school cafeteria (new build) | school (retrofit)

TOUR 3 | Aachen III: At work | 9am - 3.30pm

Fire station (new build) | office building (new build) | office building (retrofit) | school campus, guest house (new build)

TOUR 4 | Cologne: Living, working, health care | 9am - 5.30pm

Apartment building (new build) | office building (new build) | day care centre (new build)

Those who would like to end this tour early may do so at 4pm at the Cologne Main Station.

TOUR 5 | Heinsberg I: Industry, church, health care | 9am - 5.30pm

Fuel cells production | church (retrofit) | hospital/ office building (new build)

Those who would like to end this tour early may do so at 4pm at the Mönchengladbach Main Station.

TOUR 6 | Heinsberg II: Living, church | 9am - 4.30pm

Single family home (new build) | Apartment building (new build) | church (retrofit) | Single family home (retrofit)

TOUR 7 | Düsseldorf: Education | 9am - 5.30pm

Cafeteria (new build) | school (retrofit) | school campus, guest house (new build) | school (new build)

Those who would like to end this tour early may do so at 4pm at the Düsseldorf Main Station.

» Cultural programme

Conference participants can attend the following tours free of charge. Email registration required prior to 7 April: tagung@passiv.de

Saturday, 26 April 2014

Historical tour through the city of Aachen | 7pm - 8.30pm

Subject to alterations

» Exhibition

Passive House components provide maximum comfort with minimum energy costs in new builds and refurbishments alike. Whether you want insulation materials, windows or ventilation systems with heat recovery – all leading manufacturers of Passive House components will be represented at the accompanying specialist exhibition. Here you will find first-class advice, information materials, illustrative models and experts happy to answer your questions. In parallel, a lecture series will provide visitors with additional Passive House insights.

Date: Friday and Saturday, 25 and 26 April 2014

Venue: Eurogress Aachen
Monheimsallee 48
52062 Aachen, Germany

Time table: 25 April 2014, 9.00am - 7.00pm
26 April 2014, 9.00am - 5.00pm

» Exhibition area themes

- Insulation
- Windows and doors
- Ventilation systems with heat recovery, compact heat pumps, subsoil heat exchangers, stoves and heating systems, solar collectors
- Measuring devices for airtight construction and ventilation techniques, infrared cameras
- Products for ensuring airtightness
- Prefabricated buildings and building components
- Contracting businesses, trade associations, architectural and engineering firms, energy consultants, quality assurors
- Software, specialist literature, advanced training
- Renewables for the Passive House

» Target groups

Architects, designers, engineers, energy consultants, energy suppliers, craftspeople, scientists and researchers, retailers, manufacturers, local authorities, property developers, students

» To order an information pack for exhibitors please contact:

Barbara Löbau | Passive House Institute
Anichstr. 29/54, 6020 Innsbruck, Austria
Tel.: +43 (0)512 570768
Email: barbara.loebau@phi-ibk.at



Photo credits: Cover photo: Youth center Cube, Aachen, Architekturbüro Cortis, Jörg Hempel Photodesign © Stadt Aachen

18TH INTERNATIONAL PASSIVE HOUSE CONFERENCE 2014



Passive House Conference 2014 and Exhibition

Eurogress Aachen | Germany 25 and 26 April 2014

Framework programme 23 – 27 April 2014

Programme



- » Register online at www.passivehouseconference.org
- » Or fill out the registration form for the **18th International Passive House Conference**, 25 and 26 April 2014 below

» **Please check your participation status:**

- Early booking (registration by 28 February 2014, payment before 07 March 14)
- iPHA/ iPHA Affiliate member
- Speaker accepted by the scientific advisory board
- Student (copy of student ID enclosed)
- » **Please check your participation preferences:**
- Both Friday and Saturday, 25 and 26 April 2014
- Friday, 25 April 2014 **only**
- Saturday, 26 April 2014 **only**

» **Further offers:**

- Passive House Basics Course, Wednesday, 23 April 2014
- Passive House Windows Workshop, Wednesday, 23 April 2014
- Passive House Components Workshop, Thursday, 24 April 2014
- Evening Event, Friday, 25 April 2014
- Passive House Excursion, Sunday, 27 April 2014*

Participation fee: €_____ (invoice will be sent)

Family name, Given name: _____

Company/Organisation/Institution/Authority: _____

Street address: _____

City and postal code: _____

Phone/Fax: _____

Email: _____

► I hereby acknowledge and accept the terms and conditions as outlined in this flyer for the 18th Passive House Conference 2014 and side events. I also understand that the liability of the organiser is limited to the participation fee paid.

► Please accept my registration for the 18th Passive House Conference and side events, to be held in Aachen, Germany from 23 - 27 April 2014. I am aware that my registration is binding.

City, Date: _____

Signature: _____

Passive House Basics Course, Wednesday, 23 April 2014

This full-day course is ideal for both first time Conference participants and for all those wishing to refresh their Passive House knowledge. Passive House essentials will be covered by prominent Passive House experts, including Wolfgang Feist himself.

The adaptation of building components and their implementation to suit climatic conditions will be the main focus during this day, and a ten-minute frame has been set aside after each presentation to answer questions. Start this third decade of the Passive House Standard by letting Passive House Basics bring you up to speed.

Venue:

RWTH Aachen | Gebäude Super C
Templergraben 57 | 52062 Aachen

Passive House Windows Workshop for Experts, Wednesday, 23 April 2014

In the Passive House Window Workshop for Experts, PHI will share detailed information on the principles of highly energy efficient windows, the influence of windows on Passive House buildings, requirements in different climate zones, PHI's component programme and how to obtain component certification. The workshop is recommended for manufacturers, distributors and skilled architects/designers.

Venue: Eurogress Aachen

Passive House Components Workshop, Thursday, 24 April 2014

Over the last several years, Passive House has taken off worldwide, creating a growing and, as of yet, unmet demand for high performance, Certified Passive House Components. This workshop aims to narrow the gap by providing guidance on what it takes to develop Passive House Components suited to a wide variety of climatic conditions while informing designers and builders on the latest innovations and technologies. This interactive event will also serve as a global networking platform, encouraging cooperative efforts between manufacturers on cutting edge, certifiable components.

Venue: Eurogress Aachen

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

2014 Passive House Award Ceremony Friday, 25 April 2014 | Passive House Conference Plenary Session



PLENARY SESSION | Europa Hall

9:00 Opening remarks: Marcel Philipp, Mayor of the City of Aachen | Lothar Schneider, Director of the EnergyAgency.NRW
9:15 Heinrich Bottermann, General Secretary of the DBU foundation | The Passive House – an established construction standard on the way to energy revolution
9:30 Diana Ürge-Vorsatz, Director of the Center for Climate Change and Sustainable Energy Policy (3 CSEP), Central European University | Energy efficient buildings – an important opportunity to mitigate climate change
10:15 **2014 Passive House Award Ceremony**
10:45 Wolfgang Feist | Passive House is more...
11:15 Johannes Rimmel, Minister for Climate Protection, Environment, Agriculture, Nature Conservation and Consumer Protection of North Rhine-Westphalia
Tour of exhibition | lunch

Europa Hall	Brüssel Hall	Berlin 1 Hall	Berlin 2 Hall
Session I: PH on the regional level*	Session II: Ventilation*	Session III: Retrofit	Session IV: Day-care centres / schools*
13:00 Ulrike Leidinger, Eckhard Wendel The City of Aachen – on the way to Passive House	Rolf-Peter Strauss Ventilation – simple and elegant!	Witta Ebel, Berthold Kaufmann Economy and financing of efficiency: new buildings and renovations	Kai Künzel »KlimaKita« in three weeks
13:25 Hartmut Murschall Energy efficiency in North Rhine-Westphalia: political commitment and support	Bernhard Martin A new ventilation concept for small dwelling units	Peter Keig Analysis of the operational energy performance of a retrofitted solid wall terraced house versus designed performance	Robert Heinicke The "House by the lake"
13:50 Matthias Linder The City of Frankfurt: 10 years of experience with public Passive House buildings	G. Rojas-Kopeinig Cascade ventilation – air exchange efficiency in living rooms without separate supply air inlets and exhaust air outlets	Herwin Sap A concept for quick and clean Passive House renovation for mass housing in the Netherlands	Patrick Ostrop Passive House school and educational center "Tor zur Welt" in Hamburg
14:15 Michael Stephan Tradesperson and designer network in the Aachen region	Rainer Pfluger Heatpipes for frost protection in PH ventilation systems	Alexandra Troi Energy efficiency of windows in historic buildings	Helmut Heuer Certification and architectural quality – a contradiction?
14:40 I. Klavitter, J. Probst Energy concept and sustainable design in Belgium's German community	Rainer Lautner Highly efficient ventilation systems with rotation heat exchanger für Passive House buildings	Harry Patias Monitoring building fabric moisture in a historic house retrofitted with internal insulation	Joachim Götsche Science College Overbach: Passive House school in Jülich-Barmen
15:05 Markus Lehmenkühler E-View – an online monitoring system not only for public administrative bodies	1) Schmidt The new generation of enthalpy exchangers – performance and energy efficiency 2) Brandmeier Outdoor installation and special characteristics of ventilation systems 3) Sibille Development of a coaxial-duct as outdoor air inlet and exhaust air outlet for ventilation units 4) Woollett Rotary heat exchanger: practical experience	1) O'Leary Ten Trans-European EuroPHit projects lead the next wave of Passive House promotion 2) Pedersen Online platform for systematic Passive House certification	Martin Endhardt Passive House day-care centre with class rooms in prefabricated concrete construction
15:30 COFFEE BREAK	Session V: Components: building envelope*	Session VI: PH design tools*	Session VII: Climatic challenges
16:00 Benjamin Krick PHI window certification: cold and arctic climates	Gernot Vallentin Design principles for Passive House buildings: illustration of completed day-care centres	Fabio Ferrario The first certified Passivhaus hotel in Italy	Ludwig Rongen Heinsberg Protestant Christ Church – EnerPHit refurbishment, conversion and extension
16:25 Günter Pazen Passive House windows are cost-effective!	Zeno Bastian Variant calculations and economic assessment with PHPP 9	Rena Vallentin Seminar and youth guest-house – a flagship project in Korea	Stefan Oehler Conversion of a trading post into a multi-family building with lofts
16:50 Patrick Ziegler-Herboldt Presentation of certified curtain wall substructure components & experiences	Pia Regner Simulation and construction of cost-effective Passive House schools with minimised mechanical systems	Thomas Greindl An ecological, sustainable Passive House 300 km south of the Arctic Circle	Georg Reinberg Passive House refurbishment with extension and redensification under challenging conditions
17:15 Klaus Zeller Two residential building projects with monolithic masonry walls in Cologne	Alexandre Schütze Sensitivity analysis with PHPP	1) Mauring Winter performance of Certified Passive House building in Northern European cold climate 2) Krauklis Design, optimisation, construction and operation of a large single-family Passive House in Riga	Eva Anlauff Cultural heritage preservation award for an energy retrofit – prevention of structural damage, cost-effectiveness and regulatory compliance
17:40 1) Muskatowitz Challenging connection details and their impact on the heating demand 2) Kethorn Durable airtightness of joints between windows and walls 3) Gollwitzer Optimisation of roller shutters and exterior blinds 4) Park Comparative evaluation of EIFS using VIPs for better performance 5) Andreau Electronically tintable glass: greater design freedom without compromise	1) Nordhoff ecolearn – Passive House experts at your fingertips 2) Hasper Advance! Education!	3) Szalavicz Can Passivhaus Standards be adapted to high-rise residential buildings in South Africa? 4) Marcelino The performance of the first Passive Houses in Portugal: the path to sustainability 5) Rosemeier Is mechanical ventilation dispensable in temperate climates? 6) Vicente/Rodrigues Passivhaus economic feasibility for Portuguese climate	Oliver Ottinger Comparison of four interior insulation systems – measurements and hygrothermal simulations 1) Reinke From a traditional Hamburg detached house to a low-energy house with a Passive House extension 2) Graf EnerPHit – an early pilot project 3) Rongen Passive House refurbishment of Baesweiler's secondary school – monitoring and user survey
18:15 End of event 20:00 Evening event (reservation must be made in advance)			

PLENARY SESSION | Europa Hall

9:00 Vincent Berrutto | Head of Unit for Energy Efficiency, European Commission - Executive Agency for Competitiveness & Innovation (EACI) (tbc)
9:15 Pat Cox, 21st President of the European Parliament
9:45 Grégoire Clerfayt | 2015 – Brussels goes passive – from stimulation to regulation

Europa Hall	Brüssel Hall	Berlin 1 Hall	Berlin 2 Hall
Session IX: Swimming pools, hospitals, super markets*	Session X: PH and renewables = NZEB*	Session XI: North America	Session XII: Passive House regions
10:30 Jörn Kaluza Improving the electricity efficiency of indoor swimming pools	Manfred Huber Field report: Nearly-zero energy multi-family building with load management	Adam Cohen Built comparison of a Passive House and a standard American dormitory – a twin study	U. Scherer, M. Wohlfahrt Promoting efficient building: The PassReg principle in the Hanover Region
10:55 Jessica Grove-Smith Energy efficiency in Passive House swimming pools: demand and consumption of the "Lippe" bath	Christoph Deimel Contemporary design in Berlin: From Passive House to Plus energy buildings	Timothy McDonald Strategies for affordable, modular and multifamily PH housing in the USA	Paola Leardini How do Passive Houses perform in New Zealand? From simulation to facts
11:20 Kristin Bräunlich Aspects of efficient ventilation in hospitals	Ralph Wortmann Passive and zero-emission refurbishments	Ross Elliott Le Belvedere Events Facility: A unique Canadian cold-climate Passive House experience	Mark Siddall Occupant satisfaction in UK Passivhaus dwellings
11:45 Oliver Kah Baseline study – implementing the Passive House concept in hospitals	Edith Varga Evaluation of a Passive House settlement according to DGNB criteria	Jörg Rügemeier Maximizing the Passive House at market rate – Utah's most energy-efficient and cost-effective house	Ruut Peuhkuri Indoor environment in 126 Danish Passive House apartments heated by ventilation air
12:10 L. Lepp, J. Schnieders Passive House super markets on the rise: requirements, examples and results	Christian von Ballmoos Palazzo Positivo – refurbishment of a multi-family building in Chiasso to plus energy level with BIPV	Malcom Isaacs Passive House economics: A simplified North American approach	Ljubomir Mišević The first twenty Passive Houses in Croatia
12:35 1) Oehler Laboratory building of Mainz University's anthropology department 2) Cohen Design & construction of the LDS Dental Clinic	1) Struckmeier Passive House: Computer data centres with a PUE below 1.2 2) Wamsler A construction group builds passive and „positive“ 3) Garg Design of a cost effective net Zero Home for Ahmedabad, India 4) Yeats Lancaster Cohousing, 41 Passive Houses with on-site renewable energy distribution	Matthew O'Malia Design/ Build/ Refine/ Repeat: A systems approach for Passive House construction in North America	Clarence Rose, Dragomir Tzanev Set of Solutions & lessons from the new Passive House regions 1) Pietrobini Mediterranean Passive House solutions towards nearly zero energy buildings in Italian regions
13:00 LUNCH	Session XIII: Living: examples and mechanical systems*	Session XIV: Experiences: integrated design and use*	Session XV: Tools and applications
14:30 Martin Treberspurg Passive House residential complex in Vienna's Kaisermühlenstraße	Astrid Müller Energy concept Aachen Richtericher Dell	H. Malzer, D. Edwards designPH – 3D Passive House design tool	Zeno Bastian International EnerPHit-certification criteria
14:55 Michael Müller Passive House dormitory	Peter Lücknerath Interface management in Passive House buildings	Georgios Dermentzis Heat pumps in Passive Houses – PHPP application	1) Butcher, Herring EnerPHit barn conversion: achieving high thermal performance & structural stability 2) Sevela Energy refurbishment of heritage buildings with PHPP's and real measurements' feedback 3) Janetti Internal insulation applied to a listed school building: in situ measurements and numerical analysis 4) Hrynyszyn Passive House – an option for a modern rorbu? 5) Jacobs High performance insulation: technology innovation and tailoring for replication 6) Egea Barbosa Passivhaus Refurbishment in Mexico City
15:20 Peter Tappler Indoor air quality in energy efficient residential new builds	Ingo Höffle Integrated design and cost-effectiveness of Passive House office buildings	Maria del Carmen Rivero Adapting the PHPP to Mexican social housing: the challenges of creating the DEEVi tool	
15:45 Jürgen Schnieders Experience with a drain water heat recovery	Bernhard Frohn Balanced Office Building – BOB.Aachen: 10 years of building use	Nick Grant Internal heat gains	
16:10 Erwin Nolde Grey water recycling and heat recovery – a steppingstone from Passive House to zero-energy buildings?	1) Teizer Cost and pay-off comparison: Passive House office building and German legal requirements 2) Psyk Use of geothermal energy in a renovated office building 3) Jünemann Resident consulting – involving residents in the refurbishment process	1) Amäutu PHPP interface certification 2) Vide Lutman Seismic Foundation Pillow 3) Dinis Alves Building with Passivhaus requirements: thermal bridge modelling and thermal influence	
16:35 1) Kraus Compact heat pump systems and drinking water regulations			
16:45 COFFEE BREAK			

PLENARY SESSION | Europa Hall

17:15 Wolfgang Feist | Passive House – the next decade
18:00 End of conference

* Session held in German with translation into English

Subject to alterations

