

Plenary | HALL STRAUSS (Level 0)

9:00am Welcome by: Christoph Chorherr, Local Council of Vienna | Michael Ludwig, City Councillor for Housing, Housing Construction and Urban Renewal of Vienna | Ursula Schneider, Federal Chamber of Architects and Engineer Consultants | Günter Liebel, Division Head of Environment and Climate Protection at the Federal Ministry of Agriculture, Forestry, Environment and Water Management | Michael Paula, Head of the Department of Energy and Environmental Technologies at the Federal Ministry of Transport, Innovation and Technology

10:00am Helga Kromp-Kolb, Head of the Center for Global Climate Change and Sustainability, University of Natural Resources and Life Sciences, Vienna
 10:35am Wolfgang Feist, Director of the Passive House Institute and Professor at the University of Innsbruck
 11:30am Joint visit to the exhibition
 12:00am LUNCH BREAK

HALL STRAUSS (Level 0)

Session 1: Passive House examples from Austria

1:00pm **MARTIN TREBERSPURG** | Future-proof architecture in solar Passive House construction – 25 years planning experience

1:25pm **MARTINA FEIRER** | Mineroom Leoben PH student dorm in timber construction

1:50pm **MARTIN PLOSS** | Efficient is economic – results of the Voralberg model project KiNaWo

2:15pm **MICHAEL BERGER, HUBERT HERMANN** | Living in Gleisdreieck-2015: The first certified PH dorm in Eastern Austria

2:40pm **GERHARD KOPEINIG** | Renovation of a protected fire station into a music school in Velden (AT)

3:05pm **MANFRED SONNLEITHNER** | 15 years of living in a Passive House

P: Herzog | Smart campus of the Wiener Netze

3:30pm **COFFEE BREAK**

Session 5: Retrofit projects and components

4:00pm **DAGMAR JÄHNIG** | Facade-integrated building services for high-quality renovation of multi-family homes

4:25pm **CHRISTIAN WOLFERT** | Retrofitting under building preservation requirements with Passive House Components

4:50pm **ANATOL WORCH** | PH with interior insulation? Influencing variables-systems-possibilities-limits

5:15pm **FRANZ FREUNDORFER** | Three at once: envelope, window and ventilation as an EnerPHit innovation

5:40pm **ZENO BASTIAN** | EnerPHit Retrofit Plan – step-by-step retrofit with PHPP

6:05pm P: Schöberl | A Passive House as the world's first plus-energy attic extension in the heart of Vienna

P: Höfler | Plus energy building retrofits – a reality fact check

HALL STOLZ 1+2 (Level 0)

Session 2: District renovation

1:00pm **WOLFGANG STREICHER** | SINFONIA – introduction to the EU-funded project

1:25pm **ENGELBERT SPISS** | EU Project SINFONIA – Renovation of residential buildings to the PH Standard

1:50pm **WERNER NEUMANN** | Overall energy concept – efficient, renewable, collective

2:15pm **JAN STEIGER** | Thermal Bridges in the context of international EnerPHit requirements

2:40pm **HARALD MALZER** | SINFONIA – database for best practice refurbishment solutions

ZENO BASTIAN | EnerPHit Retrofit Plan – step-by-step retrofit with PHPP

P: Ottinger | Energy saving advice for households – the next step on the way to NZEB
 P: Streicher | GIS-based bottom-up approach to balancing electricity and heat demand
 P: Richtfeld | Monitoring in the course of the EU Project SINFONIA

Session 6: Commissioning and monitoring

4:00pm **PHILIP HORN, TIM SELKE** | ENERGYbase since 2008

4:25pm **STEFANIE ROLFSMEIER** | Airtightness measurement for relevant wind and thermal influence in a tall, PH multi-family home

4:50pm **RAINER TEPE** | Operational experience with PH systems engineering in “zero:e park”

5:15pm **STEFAN OEHLER** | Calculating the rebound effect

5:40pm **SØREN PEPPER** | Commissioning and operation as success factors for energy efficient buildings

6:05pm P: Schirmer | Quality assurance in construction – challenges in implementing PH in China

P: Imkeller-Benjes | Healthy, comfortable and climate-friendly teaching and learning in a PH school

HALL SCHUBERT 1-3 (Level 1)

Session 3: Retrofit Examples (EN)

1:00pm **MYRTIA FASOULI** | EnerPHit on London's heritage properties: Adams Row case study

1:25pm **ESTEBAN PARDO CALDERON** | First EnerPHit experience in Spanish historical heritage building

1:50pm **STAS ZAKRZEWSKI** | Strategies to retrofit typical existing US housing stock into Passive House and Passive House Plus

2:15pm **ROMAN GRÜNNER** | Deep renovation of a residential building towards the NZEB standard

2:40pm P: Janetti | Numerical investigation of the moisture risk at beam ends in buildings with internal insulation
 P: Augustin | Retrofit of an 80 years old residential row house to the PH standard in a heritage protected area
 P: McGuinness | Proof of concept: EnerPHit retrofit is viable for widespread application in Ireland

3:05pm P: Ingui | Better design and community through PH
 P: Cho | A PH mosaic for NYC urban infill residential retrofit
 P: Volf | Modular solutions for deep energy retrofitting – introduction to MORE-CONNECT project

3:30pm **COFFEE BREAK**

Session 7: Warm and hot climates (EN)

4:00pm **ERNESTO INFANTE BARBOSA, ELENA REYES BERNAL** | EcoCasa LAIF: Introducing Social Passive House buildings in Mexico

4:25pm **MIWA MORI** | Measured data of supply air cooling in a PH – solution for hot & humid climates

4:50pm **IOANNIS PAPPAS** | Passivistas EnerPHit Project in Athens: 1 year overall measurements, one year of living

5:15pm **KHALIFA AL FALASI** | Office building certified to Passive House Classic standard in Dubai (U.A.E.)

5:40pm **STEFANO FAGANELLO** | Passive House Buildings in warm humid climates – Office building in Pegognaga (Italy)

6:05pm P: Schnieders | Proper humidity simulation: measurement validation of moisture simulations
 P: Merigo | Optimal System for Mediterranean Climates (such as Italy)
 P: Castaño Salvador | Low tech PH in one of the hottest places in Europe - warm climate strategies with PHPP
 P: Watanabe | Certified PH-single family home in Mizunami, Japan

HALL SCHUBERT 4-5 (Level 1)

Session 4: Non-residential buildings (EN)

1:00pm **GARETH SELBY** | PH design for future climate change & carbon lifecycle - The Enterprise Centre UEA

1:25pm **ANDREA BOMBASARO** | “La Provvidenza” - PH retrofit of a large non-residential building in Italy

1:50pm **GERNOT VALLENTIN** | Educational institutions in different climate zones-comparison of Estonia, South Korea and China in practice

2:15pm **WILLIAM RYALL** | Guilford sound recording and production campus in Vermont

2:40pm **BARRY MC CARRON** | Passive House Research & Development Centre (CREST)

3:05pm P: Borák | Municipal art school Karla Malicha – City of Holic (CZ)

P: McNally | Ireland's first certified Passive House pharmacy

Session 8: Methods and Tools (EN)

4:00pm **CARL-PETER GOOSSEN** | Integrated design and BIM for social housing apartment Arnhem Presikhaaf

4:25pm **OLIVER OTTINGER** | Worldwide moisture assessment

4:50pm **MARIUS SOFLETE** | Teaching Passive House technology and execution in Romania

5:15pm **JOHAN CRISTOL** | Importing building information modeling data into the PHPP

5:40pm **KARIN STIEDORF** | PH standard as a target criterion in the design education of architects

6:05pm P: Gollwitzer | Calculation: simplified window installation

P: Edwards | Determination of shading reduction factors for PHPP/designPH from a 3D computer model
 P: Harmann | From scribbled cheat sheets to helpful tools
 P: Paulsen | PHPP Anonymous: Lessons learned from the Vancouver-area PHPP users group
 P: Rose | The PHPP as “nZEB-tool”: building physics are key to tipping point in the Dutch building sector

SATURDAY PROGRAMME | 29 APRIL 2017

Plenary | HALL STRAUSS (Level 0)

8:30am Günter Lang, Passive House for all – The road to zero – 500 days since Paris: Time to act
 8:45am Günther Jedlicka, Passive Houses for active students – A success story
 9:00am Heinrich Bottermann, Secretary General of the German Federal Environmental Foundation
 9:25am Scott Foster, Director of Sustainable Energy at the United Nations Economic Commission of Europe

HALL STRAUSS (Level 0)

Session 9: Passive House Plus and Premium

10:30am **HERWIG RONACHER** | Passive House and plus energy house research projects in rural environments

10:55am **MARC GROSSKLOS** | Operational experience of a Passive House with energy gains

11:20am **BERND STEINMÜLLER, REINER WIRTZ** | Steps from a 1950's residential estate house towards EnerPHIT/Passive House Plus

11:45am **DIETER HERZ** | Passive House Plus and Premium in practice

12:10am **SIMONE KREUTZER** | Passive House – here to stay

12:35am **P: Meyer-Olbersleben** | Experience from an ecologically-built PH

1:00pm LUNCH

Session 13: Mixed-use and non-residential projects

2:15pm **ARMIN KNOTZER** | Best practice in a school using of prefab Passive House suitable wood elements

2:40pm **DIETER HERZ** | Hotels to the Passive House Standard – a success story

3:05pm **MATTHIAS WOHLFAHRT** | PH Supermarkets in Hanover – status report from 2 years of operational experience

3:30pm **ERIK RÖTHELE** | Exclusive yet economic

3:55pm **URSULA SCHNEIDER** | Future-proof living: JAspern

4:20pm **P: Berger** | Kindergarten Velden a.W. – model retrofit with PH Components **P: Wildmann** | Development advances through inter- and transdisciplinary design processes **P: Ryznar** | PH meets the common economy – cooperative construction on the basis of 2 projects **P: Harmann** | Our way to PH – 5 certified office buildings in 3 years **P: Valentin** | PH design with ArchitekturNatur

4:45pm COFFEE BREAK

Plenary | HALL STRAUSS (Level 0)

5:15pm Panel discussion with Lloyd Alter, Editor of TreeHugger | Ivonne Higuero, Director of Forests, Land and Housing Division at the United Nations Economic Commission for Europe | Jürgen Schneider, Director of Sales at Environment Agency Austria | Wolfgang Feist, Passive House Institute and University of Innsbruck
 6:00pm End of event

HALL STOLZ 1+2 (Level 0)

Session 10: Passive House High-rises (EN)

THOMAS BEDNAR, HELMUT SCHÖBERL | Renovation of a TU Wien high-rise building achieves Passive House Plus Standard for the first time

BRITTANY COUGHLIN | Near EnerPHIT retrofit of a high-rise residential building in Vancouver

LOIS B. ARENA | Cornell Tech – High-rise buildings & Passive House

GERMÁN VELÁZQUEZ ARIZMENDI | Tower for 361 Social Housings in Bolueta, Bilbao, SPAIN

ILANA JUDAH | Passive House feeling higher: What it takes to make a high-rise passive

RUPERT DALY | Woodside high-rise: Bridging Thermal Inequality

Session 14: Passive House in China (EN)

BRANDON NICHOLSON | Passive House as mitigation for outdoor air pollution: findings from the ROCIS Study

BERTHOLD KAUFMANN, HELMUT SCHÖBERL | PH ZhuoZhou: first complete monitoring of a PH in China

THILO CUNZ | Passive House standard for high-rise buildings in China

BERTHOLD KAUFMANN | QIN PHTEC PH office building Qingdao

JOACHIM CIESLOK | Technology for the "PH Technology Experience Center", Sino-German Ecopark Qingdao

HAIQIONG NI | Passive House and Passive House windows in China

P: Frey | Ecological Passive House – Cultural Park in Zhuhai, China **P: Ni** | Mobile sun protection in the atrium

HALL SCHUBERT 1-3 (Level 1)

Session 11: Passive House and the electricity grid

10:30am **RICHARD HÖFER** | Regenerative heat supply with storage from PH building in the Smart Grid

10:55am **BENJAMIN KRICK** | From electricity-based supply concepts to efficient and economic solutions

11:20am **FERDINAND SIGG** | Assessment of electricity-based supply concepts for highly efficient buildings

11:45am **SVEN KUNKEL** | Innovative energy management system for heating support and BW heating

12:10am **SIMON HANDLER, KLAUS KREČ** | Conditioning and energy storage in PH by means of thermal activation of reinforced concrete ceilings

12:35am **P: Stärz** | Building technology in practice – example of a large multi-family house **P: Gerbut** | „No-carbon-future“ building technology **P: Salman Gürçan** | PH meets with Smart Home – an example for future housing

1:00pm LUNCH

Session 15: Components and building technology

2:15pm **DIETMAR SIEGELE** | Testing of compact devices with speed-controlled compressors and enthalpy transfer agents

2:40pm **JOACHIM CIESLOK** | Energy savings in hydraulic systems

3:05pm **ALLEN GILLILAND** | Reducing ventilation system cost and energy use with shared air ducts

3:30pm **BJORN KIERULF** | The future of PH: more Innovation!

3:55pm **P: Ochs** | Simulation of a Membrane Energy Recovery Ventilation and Exhaust Air Heat Pump + Modelling and Simulation of Radiant Heat Emission Systems in PH **P: Pfluger** | External plaster as an airtight plane without filling – Testing with mobile differential pressure device

4:20pm **P: Hauer** | In-Situ g-value measurement in the installation – Newly developed measuring device for complex glazing **P: Jandl** | PH in the Wienerwald – experiences with 3 new details **P: Michler** | Low Impact Envelope Systems in PH **P: Aschauer** | New approaches for water heating **P: Peel** | Cold climate PH facility

4:45pm COFFEE BREAK

HALL SCHUBERT 4-5 (Level 1)

Session 12: Passive House international (EN)

SVETLIN DOBREVSKI | Climate zones with hot summers and cold winters – build a Passive House!

JOÃO GAVIÃO | The first certified Passive House in the touristic sector in Portugal

CSABA NAGY | FairyTaleKindergarten/The first certified PH kindergarten of Hungary

P: Szeker | Passive Houses in Hungary **P: Bonilauri** | Better climate zone mapping for PH in different countries | **P: Parry** | Changing the game in Australia – The contractor experience

P: Bunyesc | Retrofit and extension of a public community centre in Barcelona of zero energy balance **P: Vicente** | Energy retrofit of a masonry building in Portugal

P: Balla | Role of PH principles to improve comfort in tropical climate of Bangalore, India **P: Mangaroska** | Green Buildings and PH for the Climate Conditions in Macedonia **P: Varga** | Thermal bridge free PH foundation design in the Romanian seismic region

Session 16: Passive House international (EN)

NICK GRANT | Developing summer comfort design guidance for the UK

MARK SIDDALL | Long term experience of PH in North East England: Are there overheating risks?

SØREN RIIS DIETZ | PH school in the northern part of Denmark: First analysis of 5 years' consumption

MONTE PAULSEN | Moodyville: A preview of North America's first Passive House district

P: Hienonen | Public authority's support for performance verification of single-family house **P: Mohammadpourkarbasi** | The business case for PH in the UK **P: Theoboldt** | CO₂mpakthuset – 25m² PH as training project and student dwelling **P: Lewis** | Affordable Passive House homes for Norfolk