



Index

Friday, 17th April 2009

Plenary Session

Hall Harmonie

10:00	Feist, Wolfgang Specific sustainable solutions: reliable and demonstrable – today and everywhere	25
Working Group I: Initiatives and energy-efficient building in public buildings		Hall Harmonie
13:30	Neumann, Werner Frankfurt climate protection policy gives precedence to Passive Houses	31
14:00	Künzel, Kay Think globally and act accordingly	37
14:30	Pany, Karl; Hochhauser, Manfred The City of Wels – Passive House Standard for an entire city	43
15:00	Hoppe, Klaus Energy standards in community building codes: the path to implementation in Freiburg	51

Working Group II: Non residential buildings		Room Illusion
13:30	Nordhoff, Andreas Passive House solutions for nursing homes	57
14:00	Kah, Oliver; Schnieders, Jürgen; Feist, Wolfgang Conditions and planning aspects of Passive House gymnasiums	63
14:30	Schuh, Winfried; Schriefl, Ernst Renovation concepts towards the Passive House standard : Assessment of DIN 18599 and Ö-NORM energy certification versus PHPP	69
15:00	Bär, Stefan Actively building Passive Houses in municipal situations – experiences from Hannover	75
Working Group III: Climatic challenges		Room Fantasie
13:30	Schnieders, Jürgen; Wagner, Andreas; Heinrich, Hermann Passive Houses in South-West Europe – Highlights from a Theoretical Analysis	81
14:00	Klingenberg, Katrin Climatic Challenges of the US	87
14:30	Giovanardi, Alessia; Troi, Alexandra; Sparber, Wolfram; Baggio, Paolo Comfort analysis of a Passive House at different locations in Italy	93
15:00	Krajcsovics, Lorant Passive Houses in the Climate Conditions of Slovakia	99

Working Group IV: PH – Examples and Strategies

Room Spektrum

13:30	Mlechnik, Erwin Passive House Networks: How Can They Deliver?	105
14:00	Nasrollahi, Farshad Economic Passive Houses for Countries with Low Energy Prices	111
14:30	LeBeau, Michael A Report on the 3rd Annual North American Passive House Conference	117

Working Group V: Research and development news

Hall Harmonie

16:00	Schulz, Tanja The Passive House Standard for indoor swimming pools	123
16:30	Schnieders, Jürgen The effects of humidity recovery in ventilation systems on energy consumption	129
17:00	Horn, Michael; Zhelondz, Dmitry; Zhelondz, Olga; Ruser, Heinrich; Kargel, Christian Long-term stability in CO ₂ concentration measurement: a key component for ventilation with low heat loss	135
17:30	Freundorfer, Franz; Kaufmann, Berthold; John, Markus Passive House windows completely redesigned	141

Working Group VI: Refurbishment examples

Room Illusion

16:00	Haase, Werner Comprehensive renovation of the historic Aschaffenburg city hall with Passive House components and internal insulation	147
16:30	Reinberg, Georg W. Protecting historic buildings: Passive House renovations in Purkersdorf, Vienna	153
17:00	Großklos, Marc; Hörner, Michael; Diefenbach, Nikolaus "Energy-efficient, climate-neutral, or sustainable? Frankfurt's Rotlintstrasse as a model of the zero-emissions passive house"	159
17:30	Kaufmann, Berthold; Peper, Søren; Pfluger, Rainer; Feist, Wolfgang Scientific monitoring of the Tevesstrasse Passive House renovation in Frankfurt a.M.	165
18:00	Peper, Søren; Grove-Smith, Jessica Building renovation: from 290 to 16 - in 17 months	171

Working Group VII: Cold climates

Room Fantasie

16:00	Pedersen, Søren; Peuhkuri, Ruut A real Passive House in Finland	177
16:30	Langenkamp, Olav Passive Houses in Denmark	183
17:00	Janson, Ulla; Wall, Maria Renovation to Passive House Standard in Brogården, Sweden	189
17:30	Vladykova, Petra; Rode, Carsten; Rammer Nielsen, Toke Passive Houses in the Arctic: measures and alternatives	195
18:00	Kamenders, Agris; Žogla, Gatis; Blumberga, Andra Passive House characteristics in the Latvian cold climate	201

	Working Group VIII: What about PH in...	Room Spektrum
16:00	Schwarz, Dietrich Sustainable design – a mastercourse at the University of Liechtenstein	207
16:30	Marrecau, Christophe; Clerfayt, Grégoire The Passive House building concept in Brussels: a passing fad or a long-term trend?	213
17:30	Miščević, Ljubomir Experiences in design, construction and utilization of Passive Houses, and a start to the PASS-NET IEE project in Croatia	221
18:00	Kim, Jiyoeng; Cheong, ChangHeon; Kim, Taeyoen Low- Energy Design Models for Apartment Blocks in Korea (Sustainable Housing Pilot Project)	227
18:10	Dietz, Søren Daylight comfort in passive-houses – 3 renovated houses and one new passive-house in Denmark	229
18:20	Ferri, Giordana; Ganz, Andrea Popular residential building with Passive House criteria: example in Pioltello (Milan)	231

Saturday, 18th April 2009**Plenary Session**

Hall Harmonie

- | | | |
|-------|--|-----|
| 09:00 | Bretzke, Axel
Benefits of the Passive House Standard in schools: cost-effectiveness and user convenience | 233 |
| 09:30 | Rongen, Ludwig; Nabrotzky, Tom
New opportunities for architecture – the Passive House Standard for "sensible beauty" | 245 |
| 10:00 | Bähr, Annette; Sambale, Martin
Certification as a European Passive House Planner | 259 |

Working Group IX: Multi-storey buildings

Hall Harmonie

- | | | |
|-------|---|-----|
| 10:45 | Füßler, Werner; Handke, Torsten
Quality assurance in large residential construction projects – the interplay between planning and supervision | 265 |
| 11:15 | Lugger, Klaus; Leiter, Alois; Draxl, Elmar
Lodenareal Passive House community in Innsbruck | 271 |
| 11:45 | Stein, Britta
Typological study on the potential of construction technology and building services in the renovation of multiple-story residential buildings | 277 |
| 12:15 | Bodem, Mario
"User-considerate" renovation of a multi-family building – complete installation from the outside | 283 |



Working Group X: Added value of Passive House – user comfort and ROI		Room Illusion
10:45	Müller, Michael New building for Central School Center in Nordhorn	289
11:15	Peper, Søren Low energy versus Passive: better air quality	295
11:45	Schneider, Ursula Energy Base: renewable energy and user comfort in a Passive House office complex	301
12:15	Baumgärtner, Cornelia Study of reduced operating costs at an elementary school in Frankfurt/Main	307
Working Group XI: Non-residential buildings examples		Room Fantasie
10:45	Zielke, Georg Planning energy-efficient libraries for Sri Lanka	315
11:15	Gasser, Josias F. A commercial Passive House in the Alps – looking back on ten record-breaking years	321
11:45	Michael Jordan, Ernst Passive House kindergarten in record time	327
12:15	Endhardt, Martin Savings bank to the Passive House Standard using pre-cast concrete construction	333

Working Group XII: Building Services

Room Spektrum

10:45	Siddall, Mark Thermal Bypass: The impact upon performance of natural and forced convection	339
11:15	Danilevsky, L.N.; Lisimenko, I.F. Active noise control in ventilation systems	345
11:45	Parker, Danny S.; Sherwin, John R.; Hermelink, Andreas H. NightCool: An Advanced Cooling Technology for Passive Housing	351

Working Group XIII: Refurbishment

Hall Harmonie

14:00	Bastian, Zeno Case study: modernization in stages, optimizing energy upgrades	357
14:30	Hinz, Eberhard; Enseling, Andreas Conditions for energy-saving investments in existing buildings	363
15:00	Horn, Gerrit Upgrading adjacent buildings to Passive Houses	369
15:30	Behr, Iris Utility bills in Passive Houses – doing away with metered billing	377
16:00	Rasch, Folkmer; Grenz, Petra The logical path – From Passive House to zero-emission house: renting without heating bills	383

Working Group XIV: Passive House: made locally, conceived globally		Room Illusion
14:00	Nagy, Eugen; Jackanin, Peter How sustainable can a Passive House be?	389
14:30	Hermelink, Andreas H. Passive House lifecycle costs from the perspectives of user and society	395
15:00	Lang, Günter Europe's master plan for the switch to renewables	403
15:30	Friedl, Werner The Plus standard and "negative primary energy consumption": a case study of a certified Passive House in Augsburg	409
16:00	Zizka, Martin A strategy to encourage the Passive House trend	415
Working Group XV: Cooling		Room Fantasie
14:00	Eicker, Ursula Climate control and summer comfort in passive office buildings	421
14:30	Dröschel, Barbara Keep Cool II – from cooling to sustainable summer comfort	429
15:00	Tribus, Michael "Ca' della Luna"	435
15:30	Haase, Matthias; Time, Berit; Andresen, Inger The role of the PH concept in Norway's progressive office buildings	441
16:00	Oehler, Stefan Geothermal Heating & Cooling for the Passive House	447

	Working Group XVI: POSTER	Room Spektrum
14:00	Begert, Christoph Four Seasons in One Day – Passive Houses in Volatile Climates	453
14:10	Ruxandra, Crutescu; Marin , Crutescu FIRST ROMANIAN PASSIV OFFICE BUILDING - AMVIC BRAGADIRU	455
14:20	Ruxandra, Crutescu; Marin , Crutescu; Costache, Nicolaie FIRST ROMANIAN PASSIV OFFICE BUILDING - AMVIC BRAGADIRU	457
14:30	Heiduk, Ernst A resource-efficient building concept for Namibia	459
14:40	Friemert, Peter-M. International cooperation project for the European Passive House market	461
14:50	Haase, Werner Project management for energy aspects in the holistic planning of an indoor swimming pool renovation based on Passive House criteria	463
15:00	Schneider, Beate; Osika , Klemens Passive House elements in heritage buildings: case study of a multi-family dwelling in Mannheim	465
15:10	Reinberg, Georg W.; Böck, Margit Vienna – Schellenseegasse: cutting primary energy demand by half in public housing	467
15:20	Drewer, Arnold Passive House building renovations: upgrading building components becomes a general standard	469
15:30	Reinberg, Georg W. Renovation of a historic barn as a passive residential house with a wood stove and collectors	471
15:40	Remund, Jan Comparison of test reference year data with stochastically generated data	473
15:50	Krick, Benjamin Insulating with straw: farm-grown Passive Houses	475



16:00	Huber, Martin; Gschwantner, Franz; Hofstetter, Hermann One year of Lower Austria's Economic Center: experience and effects	477
16:10	Vajda, József Carbon emissions of compact units	479
16:20	Bucher, Herbert Don't take "no Passive House" for an answer	481

Plenary Session Saturday Evening**Hall Harmonie**

16:45	Feist, Wolfgang Entering a new age: where Passive Houses will take us	483
-------	---	-----