



International symposium in high-quality thermal retrofitting of large-volume buildings

7th to 9th of October, 2009

Weiz, Austria

Program

Wednesday, October 7th 2009

- 10:00 – 18:00 **Technical tour “best practice in building retrofit “**
- Old people’s home of the district Birkfeld**
Running extension and retrofitting of an old people’s home to passive house standard
 - Housing park Zanklhof Graz**
Retrofit of a 150 years old industrial plant to a housing park in passive house and low energy building standard
 - Housing park Dieselweg Graz**
High quality retrofitting of multi-family houses with pre-fabricated façade elements
- 19:00 **Gala presentation „Retrofit or demolition – chances for promising economics“**
Stefan Schleicher, Institute for national economy, Technical University of Graz, AT
- Award of the best urban retrofit concept 2009**
Manfred Wegscheider, Member of the provincial government of Styria, department sport, environment and renewable energy, AT
- Presentation “On the top of e5 – the most energy efficient municipality“**
Rainer Siegele, Mayor of Mäder, AT
- Honour of e5 – municipalities**
Manfred Wegscheider, Member of the provincial government of Styria, department sport, environment and renewable energy, AT
- Moderation: Werner Ranacher, ORF, AT
- followed by **Buffet – Invitation by the town of Weiz**

Thursday, October 8th 2009

- 8:30 **Registration and coffee**
Moderation: Karl Höfler, AEE – Institute for sustainable technologies, Gleisdorf, AT
- 9:00 **Welcoming and opening**
- Helmut Kienreich, Mayor of the town of Weiz, AT
 - Erwin Gruber, City of Gasen, AT
 - Martin Gruber, Chairman of the department of Styria and Carinthia of the chamber of architects and technical consultants, Graz, AT
- Thematic block 1** **Energy efficiency in the e5 - municipalities**
Chairwoman: Helga Rally, LandesEnergieVerein Styria, Graz, AT
- 9:30 **Step by Step – retrofit planning for municipal buildings**
Christian Indinger, Construction department of Hallein, AT
- 9:45 **Connection to biomass-district-heating and further retrofitting measures**
Dietmar Ruggenthaler, Mayor of Virgen, AT
- 10:00 **Factor 10 retrofit of residential and public buildings**
Kurt Hämmerle, Deputy mayor of the municipality of Altsch and Energy Institute Vorarlberg, AT
- 10:15 **Discussion**

- 10:30 **Poster presentation - part 1**
- A1: **Retrofitting offensive – refurbishment of Austria’s multi-storey-buildings**
Christina Spitzbart, Austrian Energy Agency, Vienna, AT
- A2: **Retrofitting to passive house standard is profitable**
Reinhard Weiss, drexel und weiss energieeffiziente Haustechniksysteme GmbH, Wolfurt, AT
- A3: **„Energy Compact“ – a tool for integration of energy data into the management of the building stock**
Christina Spitzbart, Austrian Energy Agency, Vienna, AT
- A4: **New developments in the retrofit of timber frame constructions**
Vinzenz Harrer, Vinzenz Harrer GmbH, Frohnleiten, AT
- 10:45 **Break and visit of the poster and technical exhibitions**
- Thematic block 2** **Frame conditions for an ecological retrofit**
Chairman: Bernd Vogl, Federal Ministry of Agriculture, Forestry, Environment and Water Management, AT
- 11:20 **„klima:aktiv haus catalogue“ for the retrofitting of residential buildings - a benchmark for the assessment of energetic and ecological quality**
Martin Ploss, Energy Institute of Vorarlberg, Dornbirn, AT
- 11:35 **Overview on the further development of the building directive 2002/91/EG**
Ernst Krause, Federal Ministry of Economy, Family and Youth, Vienna, AT
- 11:50 **Efficiency strategies for large, commercially used buildings**
Claus Kahlert, ebök Institute for applied energy research GmbH, Tübingen, DE
- 12:05 **Refurbishment and participation - cooperation or conflict?**
Jürgen Suschek-Berger, IFZ, Graz, AT,
Michael Ornetzeder, Institute for technology assessment, ÖAW, Wien, AT
- 12:20 **Discussion**
- 12:35 **Poster presentation - part 2**
- B1: **Solar Complet – total heating system**
Wolfgang Guggenberger, Sonnenkraft Österreich Vertriebs GmbH, AT
- B2: **The refurbishment actions in the European CONCERTO Initiative**
Olivier Pol, arsenal research, Vienna, AT
- B3: **Building Integrated Photovoltaic Solutions for Retrofitting of Existing Buildings**
Michael Faber, Solar Integrated Technologies GmbH, Mainz, DE
- B4: **More efficient heating systems through better installation**
Nicole Hartl, Austrian Energy Agency, Vienna, AT
- 12:50 **Lunch** powered by 
- Thematic block 3** **International programs to promote RES & RUE**
Chairman: Alexander Thür, AEE -Institute for sustainable technologies, Gleisdorf, AT
- 14:20 **Innovation forum – presentation of the technical exhibitors**
- 14:50 **Energy transition of a sector in the Netherlands**
Ivo Opstelten, Energy Research Centre of the Netherlands, NL
- 15:05 **How to improve the energy efficiency of a whole town? Examples of the EU – project „Energy-in-Minds!“**
Boris Mahler, Steinbeis-Transferzentrum Energie-, Gebäude- und Solartechnik, Stuttgart, DE
- 15:20 **Evaluation of building envelope retrofitting techniques for reducing energy needs for space cooling (KeepCool II)**
Lorenzo Pagliano, Dipartimento di Energia, Politecnico di Milano, IT
- 15:35 **REBECEE – an European cooperation package for building retrofitting**
Peter M. Friemert, ZEBAU, Hamburg, DE
- 15:50 **Retrofit Advisor – Decision support for a sustainable building renovation**
Mark Zimmermann, Empa, Dübendorf, CH
- 16:05 **Discussion**

16:20 **Poster presentation - part 3**

- C1: **Energy savings in buildings through optimised surface heat radiation properties**
Harald Svedung, SSAB Tunntplat AB, Borlänge, SE
- C2: **Throwing new light on historic windows**
Zsuzsa Szalay, School of Architecture, Landscap & Civil Engineering,
University College Dublin, IR
- C3: **KeepCool II - Transforming the market from cooling to sustainable summer comfort – The toolkit**
Nicole Hartl, Austrian Energy Agency, Vienna, AT

16:35 **Break and visit of the poster and technical exhibitions**

Thematic block 4 **Building construction and quality assurance tools**
Chairman: Isabella Zwerger, Federal Ministry for Transport, Innovation and Technology, AT

17:00 **Development strategies for the retrofiting of the building envelope**
Sonja Geier, AEE – Institute for sustainable technologies, Gleisdorf, AT

17:15 **Retrofit of damaged upgraded insulation systems**
Otmar Reinisch, Ennstal-Neue Heimat-Wohnbauhilfe, Graz, AT

17:30 **Integration of RES & RUE measures into historic buildings**
Kim Vanguers, European Renewable Energy Council (EREC), Brussels, BE
Roel De Coninck, 3E Engineering, Brussels, BE

17:45 **SQUARE – Quality assurance for building retrofits**
Armin Knotzer, AEE – Institute for sustainable technologies, Gleisdorf, AT

18:00 **Measurement based online data pool for quality assurance and improvement of energy efficiency of buildings and plants, including renewable energy sources**
Rolf Kaßner, Ingenieurbüro Ortjohann-Regenerative Energietechnik, Köln, DE

18:15 **Discussion**

19:00 **Award of posters**

- Gerald Fuxjäger, President of the chamber of Styria and Carinthia of architects and technical consultants, Graz, AT

Moderation: Karl Höfler and Sonja Geier, AEE – Institute for sustainable technologies, Gleisdorf, AT

Styrian buffet with delicacies of the energy region Weiz – Gleisdorf

9:00 – 18:30 **Technical exhibition**

Friday, October 9th 2009

Thematic block 5 **Innovative building and retrofit concepts**
Chairman: Oswin Donnerer, Stadt Weiz, AT

09:00 **Energy efficient retrofit and architectural upgrade – the former post building in Bozen**
Hannes Mahlknecht, EURAC Research, Bozen, IT

09:15 **Optimization of life cycle from three directions: LCC, LCA und TQA**
Tobias Schrag, Hochschule Kufstein Dep. of Facility and Real Estate Management, AT

09:30 **TES EnergyFacade – a pre-fabricated timber frame construction system for retrofit of the building envelope**
Frank Lattke, Institut für Entwerfen und Bautechnik, TU Munich, DE

09:45 **Retrofit of a residential building in Freiburg**
Florian Kagerer, Fraunhofer Institut für Solare Energiesysteme, Freiburg, DE

- 10:00 **Conservation of the historical building stock while retrofitting to passive house standard**
Georg W. Reinberg, Architekturbüro Reinberg ZT GmbH, Vienna, AT
- 10:15 **Comprehensive building retrofit with an integrated energy-contracting model shown at LIG Steiermark - Goals, implementation model, procurement and first results**
Jan W. Bleyl, Graz Energy Agency, Graz, AT
- 10:30 **Discussion**
- 10:45 **Break and visit of the poster and technical exhibitions**
- Thematic block 6** **Success stories (best practice)**
Chairman: Karl Höfler, AEE – Institute for sustainable technologies, Gleisdorf, AT
- 11:30 **Energy efficient retrofit shown at Zanklhof Graz**
Dietmar Koch, Leitner GmbH, Graz, AT
- 11:45 **Retrofitting to passive house standard of the housing park Dieselweg in Graz**
Alfred Willensdorfer, GIWOG, Leonding, AT
- 12:00 **Retrofitting to passive house standard and extension of the Hypo Office building in Dornbirn**
Bernd Krauß, Planungsteam E-Plus, Kaltheier & Krauß OEG, Egg, AT
- 12:15 **New opportunities through total retrofit of a multi-storey building of the 1960ies shown at the main administration building of the Energie Steiermark**
Ernst Giselbrecht, Ernst Giselbrecht+Partner, Graz, AT
- 12:30 **Retrofit concepts for high-quality building retrofitting**
Erwin Kaltenecker, Passail, AT
- 12:45 **Discussion**
- 13:00 **Summing up of the conference**
Karl Höfler, AEE – Institute for sustainable technologies, Gleisdorf, AT
- 13:05 **End of the conference**
followed by **Conclusion with buffet**
- 9:00 - 14:00 **Technical exhibition**

Saturday, October 10th 2009

- 9:00 - 16:00 „Festival of the Energy Regions“- Day for the audience
- BIO-FESTIVAL
 - Energy day