Passive Houses and Low-Energy Buildings

International Conference
to be held in Budapest, at the French Institute 5 February 2009
by the Association of Hungarian Architects "Renewable Sources in the Built Environment for a Sustainable Future" UIA-ARES-MÉSZ work group
Conference website: www.passzivhazkonf.hu

In focus: V4 countries

In these days of uncertain energy supply and prices, the introduction of the EPBD and the energy certification of buildings, the obligations of member states on energy saving and on CO_2 emission mitigation affected by the 2006/32/EC directive on the promotion of end-use efficiency and energy services generated a great interest towards energy efficient buildings and passive house technology in the new member states including Hungary. New national energy policies are being introduced to enhance the growing market of energy efficient renovations and constructions.

The priority subject area of the conference will be the transfer of know-how of low-energy and passive house constructions, specially in the Middle European region. It aims at creating a forum where experienced professionals, producers and market actors can meet the needs of the growing markets of the new member states.

Main topics:

- Passive Houses in Middle and Eastern Europe: a Developing Market
- Adaptation to a Specific Climate
- Innovative Materials, Components and Systems
- Design Tools and Techniques
- Case Studies
- Renovation with Passive House Components
- Indoor Environment Quality in Passive and Low-Energy Buildings
- Knowledge Transfer and Education
- Regulations, certifications
- Architectural Policy and Supporting Schemes

Programme

Welcome speech by
Ms. Marie-Hélène Contal, deputy director French Architectural Institute, Museum of Architecture and Heritage
Mr. Ernő Kálmán chartered architect DLA, president, Association of Hungarian Architects
Mr. László Szekér chartered architect, Association of Hungarian Architects, main organizer of the conference, UIA-ARES-MÉSZ „Renewable Sources" programme director, moderator of the roundtable talks
Mr. Pál Csanády editor in chief, "Alaprajz" Architectural Magasine, moderator of the conference

Lectures and lecturers:

Section 1. General questions. Climate change and the built environment. Certification, support schemes, energy efficiency.

Mitigation of the effects of climate change with architectural solutions
Lecturer: Diana Ürge-Vorsatz Dr., Central European University (CEU), member of Nobel Prize winner IPCC

Green Investment System
Lecturer: László Dióssy Dr., Secretary of State, Ministry of Environment and Water

Quality assurance of passive houses in Hungary
Lecturer: Enikő Sariri-Baffia, civil engineer, Energie Planer Team, Germany

Passive house in a traditional way
Lecturer: Prof. Dr. András Zöld, Budapest University of Technology and Economics Faculty of Architecture, Dept. of Building Energetics

The difficulties of the spreading of passive houses: lessons from a survey
Lecturer: Miss Mónika Vértesy, university graduating student, BMGE

Section 2. Passive house technology and low energy architecture – international examples

The first certificated passive house in Poland
Lecturer: Mr. Szymon Firlag architect, WUT, NAPE, Poland

Passive Houses - the Slovak Experience
Lecturer: Ing.arch. Henrich Pifko, PhD., authorised architect SKA, chairman of the Intitute for Passive Houses (Slovakia), university teacher at the Slovak University of Technology, Faculty of Architecture, Institute of Ecological and Experimental Architecture

Passive houses in East Asia – Transferring European Experience in Korea and China
Lecturer*: Prof. Dr.Thorsten Shuetze, Delft University of Technology, Neteherlands, and Zhengnan Zhou, Prof. Dr. Architect, TU Delft, School of Architecture, Tsinghua University, Beijing, China*

Reconstruction with passive house technology – the limits of realisation
Mr. Roland Matzig architect, r-m-p architekten, Germany

French experience in the field of energy efficient building
Mr. Pascal ROLLET architect (Lipsky-Rollet Architects), *Mr. Raphaëlle-Laure Perraudin* architect (Jourda Architectes), France

Section 3. Passive house technology and low energy architecture – Hungarian practice and examples

Less is sometimes more – Energy efficiently designed public buildings
Lecturer: Dr. András Reith PhD, chartered architect , Mérték Építészeti Stúdió

Learning from doing: Constructor's lessons of the Győr passive house
Lecturer: Mr. Károly Boros chartered civil engineer, building maintenance expert, Boros Engineering Ltd.

Learning from doing: Builder's experience of the Szada passive house
Lecturer: Mr. György Balogh, mathematician programmer, passive house owner

The first passive houses in Hungary: SOLANOVA project in Dunaújváros, Kőröshegy Bridge Operation and Maintenance Building
Dr. Ágnes Novák PhD chartered architect, MOME Faculty of Architecture

A passive office building and the autonomy
Lecturer: Mr. Attila Ertsey, chartered architect, architect-ecologist, KÖR Architect Studio Ltd.

Energy-design – the Modern Hungarian Gallery project at Pécs
Ifj. Dr. habil István Kistelegdi DLA University of Pécs, Pollack Mihály Faculty of Technology, Dept. of Building Construction

Section 4. Passive house technology engineering aspects in practice

Comfort questions and energy saving in the passive houses
Lecturer: Ms. Vajdáné Ilona Frohner PhD, chartered mechanical engineer, expert of climatization technology, University of Pécs, Pollack Mihály Engineering Faculty, Department of Environmental Engineering

New method in domestic ventilation – Alternating direction flow decentralised ventilation system with regenerative heat exchanger
Lecturer: András Csiha civil engineer, associate professor University of Debrecen

Quasi autonomous solar cell electrical power source
Lecturter: Miklós Pálfy MSc, chartered electrical engineer, HSES, HEA PV-section, Solart System

Design tool for passive houses: the PHPP-2007 software package
Lecturer: Mr. József Benécs, chartered mechanical engineer, energetics expert,
Passive House Engineering Consulting Austrian-Hungarian Ltd.

Heat economy – heat recovery and/or renewable energy, heat pump ventilation heat recovery, the evolution of the compact PH heat center
Lecturer: Mr. Mihály Kucsera civil engineer, MARK-CONT Ltd.

Sustainable roof: examples in Hungary
Mr. Gábor Malcsik, chartered engineer, Holimex Ltd.

Brick usage in energy efficient houses
Mr. Alexander Lehmden, (Austria)

Venue
The conference will take place at the French Institute Budapest, (1017. Budapest, Fő utca 17.), situated at Central Buda.

Exhibition
Next to the conference halls an exhibition will take place.

Technical Tour
An optional full day technical tour will be organized on 6 February 2009. During the tour will be presented the Solanova project in Dunaújváros (renovation of a panel building with passive house components), and a small passive office building at Kőröshegy (lake Balaton)

Registration and services
The registration fee is 120 EUR for registrants before 31 December 2008, 150 EUR after 1 January 2009. Student registration fee is 25 EUR.

Dates
Call for papers: 15 September 2008
Submission of papers: 15 November 2008
Notification of acceptance: 15 December 2008
Early registration deadline: 31 December 2008
Registration for exhibitors: 30 January 2009
Conference: 5 February 2009
Technical tours (optional): 6 February 2009

Further information
Conference organiser: Association of Hungarian Architects. "Renewable Sources in the Built Environment for a Sustainable Future" UIA-ARES-MÉSZ work programme
Conference website: www.passzivhazkonf.hu email: info@passzivhazkonf.hu