

# PROGRAMME OF THE BUILDINGS AND ENVIRONMENT 2013 CONFERENCE (enviBUILD 2013)

October 17, 2013, University Library, Ventúrska 11, Bratislava, Slovakia

9:00 – 9:30 Registration  
9:30 – 9:40 **Opening of the Conference** - Jozef Hraška

9:40 – 11:00 **Session A: Quality of Indoor Environment**  
Chairman: Stanislav Darula

S. Darula  
**STN and EN criteria for daylight provisions in building interiors**

U. Pont  
**Evaluation of thermal environment and indoor air quality in university libraries in Vienna**

J. Pašek  
**Impact of façade coloring on light and temperature conditions of buildings, housing estates, and environment**

F. Vajkay  
**Assessment of Daylighting Design Tools Against Test Cases Included in CIE's 171:2006 Report**

L. Skoruppa et. al.  
**Thermal comfort in a refurbished low-energy house: The OEKOHAUS case study**

11:00 – 11:30 **Coffee break**

11:30 – 13:00 **Session B: Energy Performance Assessment of Buildings**  
Chairman: Miloš Kalousek

R. Partika – M. Kalousek  
**Comparison of modelled distribution of thermal fields at seasonal ground storage segments**

F. Kalmár  
**Exergy quality of buildings**

A. Zöld – Z. Szalay  
**The nearly zero-energy requirements and the reference buildings**

A. Lakatos  
**Comparison of the thermal properties of different insulating materials**

A. Dudás  
**Building physical, energetical and hygrothermal analysis of earth-sheltered building constructions**

L. Skoruppa – S. Glawischnig – U. Pont  
**Comparison of simulated and actual energy use of a hospital building in Austria**

13:00 – 14:00 **Lunch**

14:00 – 15:45 **Session C: Building Envelopes**  
Chairman: Pavol Ďurica

P. Ďurica

**Long time testing of temperature parameters in selected lightweight wooden walls and windows**

J. Krupicová

**Optimisation of swimming pool halls envelope with respect to thermal and moisture design**

Z. Szalay

**Optimizing the refurbishment of the building envelope based on life cycle environmental impacts and global costs**

F. Szkordilisz

**Green microenvironment and passive cooling potential**

B. Sommer – U. Pont

**Energy design by evolution - applying evolutionary computing to energy efficient architectural design**

T. Csoknyai

**Energy consumption and CO<sub>2</sub> emissions of buildings built with industrialized technology: the case of Debrecen and future trends**

D. Bečkovský

**BRESET - Remote Sensing Technology for Building Physics Research of Structures**

15:45 – 16:15

**Coffee break**

16:15 – 18:00

**Session D: Design of Sustainable Buildings and their Components**

**Chairman: Roman Rabenseifer**

U. Pont

**Semergy: Performance-guided building design and refurbishment with a semantically augmented optimization environment**

D. Bakonyi

**Possibilities of simulations in the planning of the retrofit of historical double skin windows**

L. Takács

**Fire protection aspects of low-energy buildings**

S. Hrabovszky-Horváth

**The assessment of the refurbished reinforced concrete buildings in point of the climate change**

K. Severnyak

**Cost optimality and / or sustainability in our building's life**

F. Tahmasebi - S. Glawischnig

**The influence of online weather forecast uncertainties on the performance of predictive zone controllers**

A. Csík

**An expert system for computing the cost saving potential of buildings**

The **presentations** should be **12 minutes long** with approximately **3 minutes** for discussion / questions for a total of **15 minutes** for each **presentation**.

14:00 – 15:30

**Session E: Intelligent Buildings**

**Chairman: Dušan Petráš**

This session will be held at the Faculty of Civil Engineering of the Slovak University of Technology in Bratislava, Radlinského 11, 813 68 Bratislava in seminar room on 2nd floor in building C. In this session the results of the ongoing project No. ITMS 26240220072 entitled Centre of Excellence will be presented.