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Program of enviBUILD 2019 - Buildings and Environment Conference

Location: University Library (Univerzitná knižnica), Ventúrska 11, Bratislava, Slovakia

08:00 - 08:30	Registration	
08:30 - 08:35	Opening of the Conference	P. Hanuliak & R. Rabenseifer
08:35 - 10:00	Session A: Energy Performance of Buildings	Chairman: O. Šikula (alt. J. Oravec)
	O. Šikula	Evaluation of energy sources of an office building - A case study
	J. Oravec	Evaluation of mathematical models of energy piles
	M. Flegar	Performance-based retrofit considerations for prefabricated buildings: A case study of Zagreb, Croatia
	O. Pilný	Design assessment of pitched roofs with heavy structure using the CTF method
	M. Babenko	Numerical thermal analysis of wall structure for sustainable buildings
	S. Eikemeier	Prevention of overheating risk: Assessment of a building project with lightweight construction in Austria
	R. Ponechal	Study of summer overheating on the new masonry self-insulating block
	J. Leštach	Numerical and measurement investigation of the thermal bridge caused by the pipe passing through the insulated wall
10:00 - 10:30	Coffee break	
10:30 - 12:00	Session B: Building Materials and Components	Chairman: K. Struhala (alt. P. Juráš)
	K. Struhala	PCMs in buildings: Compatibility with container materials and analysis of environmental impacts
	P. Juráš	Obtaining the short-wave radiation absorptivity based on the surface temperature measurement and HAM simulation
	S. Shekhorkina	Experimental investigation and FEM modeling of glued timber connections with slotted-in steel plates

08:00 -

08:30 Registration

B. Nagy	Life-cycle and hygrothermal based optimization of insulation filled masonry blocks
O. Zinkevych	Constructional features of shearwalls' stiffness in a lightweight steel framing buildings
M. Savytskyi	Quantitative design methods of corrosion protection of the reinforced concrete structures at the stages of the life cycle
M. Savytskyi	Development of 3D printing technology: materials, structural elements, equipment

12:00 - Lunch
12:45

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12:45 Chair: M. Babenko (alt. B. Sommer)

**- Session C: Sustainable and Safe Buildings
14:30 and Environmental Assessment**

M. Babenko	Agro-building clusters for solution of the critical challenges of sustainable development
B. Sommer	A review of the EVA – project: Evaluation of visionary architectural concepts in view of building performance
A. Tani	Interdisciplinary discussions on sustainable use of wood structure and fire risk - Situations in Japan and Austria
M. Rusinová	Flammable refrigerants in buildings from fire safety point of view
G. Wurzer	A web-based 3D simulation platform for estimating urban heat island effects aimed at policy makers
D. Michálková	Analysis of hygrothermal performance of selected light-weight wooden envelope
D. Szagri	Hygrothermal monitoring of a double-skin ventilated cold flat roof
A. Merabtine	On the estimation of the radiant heating surface temperature and the heat transfer rate calculation: New transient simplified analytical model

14:30 - Coffee break
15:00

15:00 Chairman: S. Darula (alt. P. Hanuliak)

**- Session D1: Quality of Indoor
16:50 Environment**

S. Darula	Solar irradiance availability based on Bratislava measurements
P. Barňák	The parameters evaluation of the indoor environment of the office building
E. Dolníková	The refurbishment of top lighting and its impact on the visual environment in the industrial hall: A case study
M. Wölzl	Simulation-based performance comparison of façade constructions: Vacuum glazing versus common insulation glass
M. Budiaková	Evaluation of thermal comfort in modern small university lecture hall in relation to air conditioning system
P. Blasinski	Influence of electrostatic charge on air-conditioning filters from nanofibrous structures
K. Walal	The modular swimming hall building designs by F. F. Grünberger – an inquiry into the building performance of Vienna's district baths
V. Kotradyová	Regional and local identity in built environment and material culture as important part of social and cultural sustainability and wellbeing

15:00 Chair: J. Čurpek (alt. K. Minarovičová)

**- Session D2: Theory and Construction of
16:50 Buildings**

J. Čurpek	Experimental analysis of reliability of the infrared thermography diagnostics in case of air permeability through building openings
K. Minarovičová	The environmental aspect of ETICS regular maintenance

12:45**– Session C: Sustainable and Safe Buildings and Environmental Assessment****14:30**

B. Bielek	Physical cavity of a double skin façade as a source of pre-heated air in the winter season for a façade heat recovery unit
M. Franek	External pressures distribution on tensioned membrane roofs
R. Rabenseifer	Environmental assessment of buildings – a suggestion
D. Szabó	Impact of the installed inlet ventilation unit in the window on its overall aerodynamic and thermal properties
J. Hraška	Approaches, methods and tools of sunlight access rights around the world
I. Chmúrny	Testing of the solar heat gain coefficient of fenestration product
D. Szabó	Evaluation of the Kunert's glazing in summer and winter climatic condition in Slovakia
Š. Vacek	Case study of application of capillary active thermal insulation systems used as an interior insulation for historical buildings
J. Bočkaj	CFD simulation, change of wind velocity through netting as perforated barrier
K. Schulzová	The quality of daylight in various types of residential buildings
L. Bosák	Optimization of biocomposite materials for outer shell of buildings
16:50	End of the Conference
–	Information about evening program: P. Hanuliak
17:00	
17:00 -	Visit to Bratislava's suspension bridge
18:30	Guide: P. Hanuliak
19:00	Dinner
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22:00	

Important: The presentations in sessions A, B, C, D1 should be 10 minutes long with approximately 2 minutes for discussion/questions for a total of 12 minutes for each presentation. The presentations in session D2 should be 5 minutes long.

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