

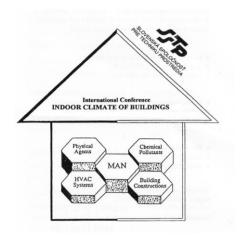




Slovak Society of Environmental Technology (SSTP)
Slovak University of Technology in Bratislava, Faculty of Civil Engineering

Invite you to 24th annual and 8th International conference

INDOOR CLIMATE OF BUILDINGS 2013



Partners:

1. - 3. December 2013

Štrbské pleso – Hotel PATRIA****, Slovakia

(SSTP 1328)

Dear Madam, Dear Sir,

It is my pleasure to invite you to ICB 2013 Conference.

ICB 2013 is the 24th annual and 8th International conference organized by Slovak Society of Environmental Technology (SSTP), held in Slovakia.

The conference will examine thermal comfort, indoor air quality, ventilation, exposure and related environmental health concerns associated with building design, construction, retrofit and operation, energy efficiency of buildings.

It is a forum mainly for PhD. students and young researchers to exchange of their knowledge and ideas. It is great opportunity to gain contacts for future cooperation.

The conference program will include internationally speakers; original peer reviewed conference papers and extended abstract presentations. The topics of conference will cover following areas:

- Indoor air quality and health
- Indoor climate and comfort of buildings
- Indoor built environment and evaluation
- Energy efficiency of Buildings
- Energy Performance of HVAC-R systems
- Outdoor Environment and Renewable Energy

International Scientific Committee:

Budiaková Mária, *Slovakia* Kabele Karel , *Czech Republic* Krajčík Michal, *Slovakia* Magyar Zoltán, *Hungary* Petráš Dušan, *Slovakia* Piecková Elena, *Slovakia* Wagner Gernot, *Austria* Wargocki Pavel, Denmark

Conference Steering Committee:

Dušan Petráš - prezident ICB Slovak University of Technology in Bratislava Faculty of Civil Engineering Radlinského 11 813 68 Bratislava <u>dusan.petras@stuba.sk</u> Hana Pustayová – secretary ICB Slovak University of Technology in Bratislava, Faculty of Civil Engineering Radlinského 11 813 68 Bratislava icb.conference@gmail.com

Organizing committee:

Diana Haberova SSTP, Koceľova 15 815 94 Bratislava sstp@stonline.sk www.sstp.sk

Zuzana Švecová SSTP, Koceľova 15 815 94 Bratislava sstp@sstp.sk

1. 12. 2013 Sunday

14:00 - 19:00	Registration
16:00 - 16:30	Opening
16:30 - 18:30	Plenary session
19:00 - 23:00	Welcome Reception

2. 12. 2013 Monday

8:00 - 19:00	Registration
8:30 - 10:30	I. Session: Indoor Air Quality and Health
10:30 - 11:00	Coffee Break
11:00 - 13:00	II. Session: Indoor Climate and Comfort of Buildings
13:00 - 15:00	Lunch break
15:00 - 17:00	III. Session: Indoor Built Environment and evaluation
17:00 - 17:30	Coffee break
17:30 - 19:30	IV. Session: Energy Efficiency of Buildings

3. 12. 2013 Tuesday

8:00 - 8:30	Registration
8:30 - 10:30	V. Session: Energy Performance of HVAC-R Systems
10:30 – 11:00	Coffee Break
11:00 – 13:00	VI. Session: Outdoor Environment and Renewable Energy
13:00 – 14:00	Lunch break
14:00 – 16:00	Workshop for PhD students

1. 12. 2013 Sunday

14:00 – 19:00 Registration

16:00 – 16:30 Opening

PETRÁŠ D., President of SSTP

16:30 – 18:30 Plenary session

Principles for guidelines for health – based ventilation in Europe

WARGOCKI P.: DTU, Denmark

Energy Efficiency of HVAC systems: Design and Operation

KABELE K.: CTU Prague, Czech Republic

ISIAQ

WARGOCKI P., President of ISIAQ

REHVA

KABELE K., President of REHVA

SIEMENS, s.r.o.

19:00 - 23:00 Welcome Reception

2. 12. 2013 Monday

8:00 - 19:00 Registration

8:30 – 10:30 I. Session: INDOOR AIR QUALITY AND HEALTH

Chairman: Piecková, Mečiarová

1. Indoor Fungal Aerosol and Its Health Effects

Piecková, E.: Slovak Medical University, Slovakia

2. The current knowledge of measurement of volatile organic compounds in indoor environment

Mečiarová Ľ., Vilčeková S., STU, Kosice, Slovakia

3. Tombs' Environment - Specific Indoors with Possible Negative Health Impact: a Mycological Approach

Majorošová, M., Piecková, E.: Slovak Medical University, Slovakia

4. Evaluation of indoor air quality in residential buildings

Foldváry V., Petráš D.: STU, Bratislava, Slovakia

5. The effect of selected building material - refractory ceramic fibers - and cigarette smoke on the respiratory tract

Hurbánková M., Černá S., Wimmerová S., Hrašková D., Marcišiaková J., Moricová Š.: Slovak Medical University in Bratislava, Slovak Republic

6. Differences in the perception of sound between men and women

Hájková L., Cifrinec I.: CUT Brno, Czech Republic

7. Effects of Seismic waves on the indoor climate of building and comfort

Žiaran S., Musil M.: STU, Bratislava, Slovakia

10:30 - 11:00 Coffee break

11:00 – 13:00 II. Session: INDOOR CLIMATE AND COMFORT OF BUILDINGS

Chairman: Kabele, Verhaart

1. The importance of MRT for assessment of indoor environmental quality in buildings Veverková Z., Kabele K.: CUT Prague, Czech Republic

2. Non-invasive detection of thermal discomfort in an office environment

Verhaart J, Veselý M., Zeiler W.: TU/e, Netherland

3. Thermal comfort of office buildings with low temperature heating / high temperature cooling and a heat pump

Bugáň J., Petráš D.: STU, Bratislava, Slovakia

4. The use of Design Builder for the evaluation of the indoor environment

Dobiášová L., : CTU, Prague, Czech Republic

5. Measurements of indoor climate parameters in indoor swimming pool

Turza R., Furi B.: STU, Bratislava, Slovakia

6. A Stereo temperature – The Value for Evaluation Non-uniformity of the Indoor

Environment

Zuská L., Kabrhel M.: CTU, Prague, Czech Republic

7. Evaluation of Thermal Comfort in Dwelling Buildings in Process of Refurbishment

Pustayová H: STU, Bratislava, Slovakia

8. Determination of air temperature using enthalpy, relative humidity and total pressure

only

Nehasil O., Adamovský D: CTU, Prague, Czech Republic

13:00 - 15:00 Lunch break

15:00 – 17:00 III. Session: INDOOR BUILT ENVIRONMENT AND EVALUATION

Chairman: Budiaková, Špegelj

1. Securing thermal comfort in buildings with double skin façade

Budiaková M.: STU Bratislava, Slovakia

2. Natural ventilation of the double skin transparent façade cavity

Valoušková K.: CTU Prague, Czech Republic

3. Concepts of efficient building envelopes

Jedinák R.: STU Bratislava, Slovakia

4. Development of timber-glass upgrade modules for refurbishment of existing energy inefficient-buildings

Špegelj T., Leskovar V., Premrov M., : Rihter d.o.o., TU Maribor, Slovenia

5. The modernization of energy economy in national theatre Prague funded by EPC method

Linhartová V.: CUT Prague, Czech Republic

6. Energy rating of the active house in the Czech Republic

Velisková E., Hirš J.: CTU Brno, Czech Republic

7. Evaluation of the quality of hot water supply in the apartment building

Krippelová Z., Peráčková J.: STU, Bratislava, Slovakia

8. Cost Optimal Evaluation of Energy Saving Measures for Refurbishment of Dwellings Buildings

Borisová L.: STU, Bratislava, Slovakia

17:00 - 17:30 Coffee break

17:30 – 19:30 IV. Session: ENERGY EFFICIENCY OF BUILDINGS

Chairman: Magyar, Bartoňová

1. Implementation of EPBD

Magyar Z: TU Budapest, Hungary

- 2. An investigation of the energy performance in commercial buildings Harmati N., M Magyar Z.: TU, Novi Sad, Serbia; TU Budapest, Hungary
- **3.** Evaluation of energy efficiency of reconstructed residential building Budiaková M.: STU, Bratislava, Slovakia
- 4. The assessment of the air-conditioning function by PPD method Michnová L., Martiník L., Galda Z.: TU Ostrava, Czech republic
- 5. Evaluation of energy performance of ventilation and air conditioning in the office building

Hurtíková D.: STU, Bratislava, Slovakia

- 6. CFD Simulation of Flow in Optimized Ducts with Different RANS Turbulence Models Czétany L., Szánthó Z.: TU Budapest, Hungary
- 7. Effect of control of warm-water heating system on consumption of auxiliary energy Bartoňová J.: CTU Prague, Czech Republic
- 8. Technical- economic assessment of complex renovation of an apartment building Kmeťková J., Petráš D.: STU Bratislava, Slovakia

Company presentation: Camfil, s.r.o. Poor, s.r.o.

3. 12. 2013 Tuesday

08:00 - 08:30 Registration

8:30 – 10:30 V. Session: ENERGY PERFORMANCE OF HVAC-R SYSTEMS

Chairman: Krajčík, Czétany

1. Thermal comfort and ventilation effectiveness of combined ventilation and radiant heating/cooling systems for low-energy buildings

Krajčík M.: STU Bratislava, Slovakia

2. Investigation of the ventilation efficiency and draft of a tangential air distribution system

Both B., Goda R.: TU Budapest, Hungary

3. Analyses and tests of diffuse ceiling ventilation in test building

Václavík R., Mikeška T.: DTU, Denmark

4. Heat load elimination during summer period by application of natural and mechanical ventilation systems

Knížová K., Kováč M.: STU Košice, Slovakia

5. Determining the Airflow Rate of Different Flow Elements in Zonal Models

Czétany L., Csoppenszky G., Szanthó Z.: TU Budapest, Hungary

6. HVAC Energy savings and building exterior aerodynamics

Kohoutková A.: CTU Prague, Czech Republic

7. Interaction between the smart grid and smart building

Belic E., Sukič P., Štumberger G.: TU Maribor, Slovenia

8. Energy Analysis of Circulating Pumps in Heating Systems of Residential Buildings and Determinating the Energy Efficiency Index

Rácz L., Takács J.: STU Bratislava, Slovakia

10:30 - 11:00 Coffee break

11:00 – 13:00 VI. sekcia: OUTDOOR ENVIRONMENT AND RENEWABLE ENERGY

Chairman: Petráš, Stutterecker

1. Renewable Energy Systems with Low Temperature Heating and High Temperature Cooling

Petráš D.: STU Bratislava, Slovakia

2. Integrated heating and cooling with a focus on electrically and thermally driven heat pumps and chillers

Stutterecker W.:

- 3. Case study of the use of renewable energy sources to ensure quality of the indoor environment in the new building of the Centre of Architecture and Design in Prague Balounova M., Kabele K.: CUT Prague, Czech Republic
- 4. The Energy Performance Certificate of Apartment Building with a Heat Source Geothermal Energy

Bukoviansky M.: STU Bratislava, Slovakia

5. Internal fluid behavior in storage tanks used in solar appliances Magyari I.: TU Budapest, Hungary

6. Methodology of solar energy systems efficiency evaluation in buildings Skalík L., Lulkovičová O.: STU, Bratislava, Slovakia

7. Absorption solar cooling

Bejček M., Urban M.: CUT Prague, Czech Republic

8. Wastewater as the Source for Renewable Energy Podobeková V., Peráčková J.: STU, Bratislava, Slovakia

13:00 - 14:00 Lunch break

14:00 - 16:00 WORKSHOP FOR PHD STUDENTS

Partners:







SIEMENS

Media Partner:



REGISTRATION FEE PAYMENT

REGISTRATION FEES:

•	ICB Regular participant	71,00 + 20% VAT = 85,00 €
•	ICB Reduced fee participant (Member of SSTP)	58,00 + 20% VAT = 70,00 €
•	Student	50,00 + 20% VAT = 60,00 €
•	Proceedings book	21,00 + 20% VAT = 25,00 €
•	Proceedings on CD	10,00 + 20% VAT = 12,00 €
•	Presenting company	208,00 +20% VAT = 250,00 €

REGISTRATION INCLUDES:

Access to Sessions

Breaks

Welcome Reception

Conference Slovak Dinner

WIRE TRANSFER INFORMATION

Registration fees must be paid in EUR by wire transfer to:

SSTP, Koceľova 15

815 94 Bratislava, Slovakia

Company ID: 00896918 Tax ID: SK2021491241

Account NO.: 1307192857/0200

Variable symbol: 28 + your company ID

Details of payment: Name of company / Forename and Surname of participant*

IBAN: SK67 0200 0000 0013 0719 2857

SWIFT/BIC: SUBASKBX

*The participant's name should be clearly legible otherwise the payment cannot be identified.

All payments made by bank transfer have to be net of all bank charges. The payer pays the bank charges of their bank, and the beneficiary pays the charges of their bank, if any.

We will send the Invoice after conference.

The refund of registration fee is not available.

If you should be prevented from attending, you will be given the opportunity to send a colleague in your place.

VENUE:

1. - 3. december 2013, Hotel PATRIA, Štrbské Pleso – High Tatras



Conference dates: Sunday -Tuesday, December 1. - 3. 2013

Accommodation: Hotel PATRIA

Rate: € 45 single room € 65 double room

Local tax has to be paid at the check-in – 1 €/person/day.

Following services are included in the price: overnight stay, breakfast, taxes, entry to Wellness Patria Aqua Paradise. Swimming in the hotel indoor swimming pool is for free as well as the entry to the fitness, table tennis and internet.

Accommodation is paid by participant of conference and it is not included in registration fees. Accommodation must be paid in EUR by credit card or cash in the Hotel Patria.

The programme and registration form can be found on the webpage <u>www.sstp.sk</u>. More information is provided by the organisation guarantor <u>Hana Pustayová</u>:

Please send the registration form to the following e-mail address: icb.conference@gmail.com
The deadline for applications is 27.11 2013

Contact address: SSTP, Koceľova 15 815 94 Bratislava, Slovakia icb.conference@gmail.com

REGISTRATION FORM 8th International Conference INDOOR CLIMATE OF BUILDING 2013 December 1 – 3, 2013, Štrbské Pleso – High Tatras, Slovakia

Forename(s), Surname, Title:								
Other participants:								
Name of the company (society):								
Address of the company (society), Post code:								
Phone number:	Company ID:							
Mobile phone number:	Tax ID:							
E-mail:	VAT:							
Registration fee must be sent no later than 27.11 2013 to account of SSTP in VÚB bank Bratislava								
Account NO.: 1307192857/ 0200								
Variable symbol: 28 + your company ID								
Details of payment: Name of company / Forena	me and Surname of p	articipant*						
IBAN: SK67 0200 0000 0013 0719 2857								
SWIFT/BIC: SUBASKBX								
REGISTRATION FEE:								
ICB Regular participant 7	1,00+ VAT =	85,00 €						
ICB Reduced fee participant 5	8,00 + VAT =	70,00€						
(Member of SSTP)								
Student 5	0,00 + VAT =	60,00€						
Proceedings book 2	1,00 + VAT =	25,00 €						
Proceedings on CD 1	0,00 + VAT =	12,00€						
Presenting company 2	08,00 +VAT=	250,00€						
Payment C	onfirmation							
Participation fee in the amount of	€, was pai	d on						

We will send from account number:.....to account number of SSTP in VÚB bank Bratislava, account number: 1307192857/0200; Variable symbol 28

+ Your company ID: