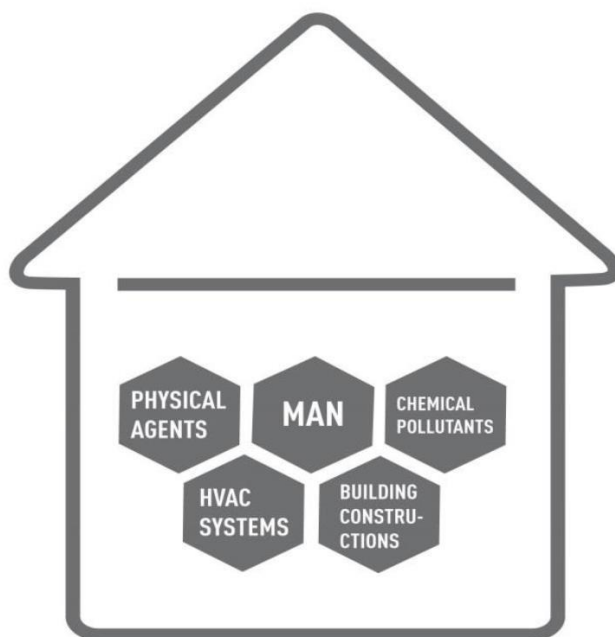




**Slovak Society of
Environmental Technology (SSTP)
Association of Slovak Scientific and Technological Societies (ZSVTS)
Association of Energy Engineers: AEE Student Chapter - STU Bratislava, Slovakia
Slovak Chamber of Civil Engineers
Slovak University of Technology in Bratislava, Faculty of Civil Engineering**

Invite you to 36th annual and 12th International conference

INDOOR CLIMATE OF BUILDINGS 2025



ENERGY EFFICIENCY AND DECARBONIZED ENVIRONMENT

30. November – 2. December 2025

Nový Smokovec – Hotel ATRIUM ***, Slovakia

Dear Madam, Dear Sir,

It is my pleasure to invite you to the Indoor Climate of Buildings (ICB) 2025 conference. ICB 2025 is the 36th annual and 12th International conference organized by the 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 give them chance to gain new knowledge, exchange ideas and contacts for future collaboration with their other international fellows.

The Conference program will be based on keynote presentations given by international speaker and peer reviewed paper and extended abstract presentations of young researchers. The topics of the Conference will cover the following areas:

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

International Scientific Committee:

Budiaková Mária, Slovakia
Kabele Karel, Czechia
Krajčík Michal, Slovakia
Petráš Dušan, Slovakia

Piecková Elena, Slovakia
Stutterecker Werner, Austria
Šikula Ondrej, Czechia
Skotnicova Iveta, Czechia
Vilčeková Silvia, Slovakia

Professional guarantor of the conference:

Dušan Petráš - president of ICB
Slovak University of Technology
in Bratislava
Faculty of Civil Engineering
Radlinského 11, 811 07 Bratislava
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Karolína Gábrišová – Slovakian coordinator
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30. 11. 2025

Sunday

15:00 - 19:00	Registration
17:00 - 17:30	Opening
17:30 - 19:00	Plenary session I.
19:00 - 23:00	Welcome Reception

1. 12. 2025

Monday

08:30 – 18:00	Registration
09:00 – 10:00	Plenary session II.
10:00 – 10:30	Coffee Break
10:30 – 12:00	I. Session: Indoor air quality and health
12:00 – 13:30	Lunch break
13:30 – 15:00	II. Session: Indoor climate and comfort of buildings
15:00 – 15:30	Tea Break
15:30 – 17:00	III. Session: Indoor built environment and evaluation
17:00 – 18:00	Corporate Lectures
20:00 – 23:00	Dinner

2. 12. 2025

Tuesday

08:30 – 18:00	Registration
09:00 – 10:30	IV. Session: Energy efficiency of Buildings
10:30 – 11:00	Coffee break
11:00 – 12:30	V. Session: Outdoor environment and renewable energy
12:30 – 13:30	Lunch Break

30. 11. 2025 Sunday

15:00 - 19:00 Registration

17:00 - 17:30 Opening – Dušan Petráš

17:30 – 19:00 PLENARY SESSION I.

Chairman: Petráš D., Gábrišová K.

1. **Building renovation passports: A new tool for systematic energy renovation in the context of the european directive EPBD 2024/1275**
Kabele K.: Czech Technical University in Prague, Faculty of Civil Engineering, Czech Republic
2. **Age of Air - EVALUATION METHODS**
Šikula O.: Brno University of Technology, Faculty of Civil Engineering, Czech Republic
3. **Heat Pumps for a Decarbonised Future: Trends, Challenges and Research Opportunities**
Stutterecker W.: FH Burgenland, Pinkafeld, Austria

19:00 – 22:00 Welcome Reception

1. 12. 2025 Monday

08:30 - 18:00 Registration

9:00 – 10:00 PLENARY SESSION II.

Chairman: Kabele K., Karlová M.

1. **Efficacy of nanoparticle antimicrobials against moulds**
Piecková E.: Slovak Medical University, Faculty of Medicine, Bratislava
2. **Environmental product declarations: significance, benefits, and necessity**
Vilčeková S.: Technical University of Košice, Faculty of Civil Engineering

10:00 – 10:30 Coffee break

10:30 – 12:00 I. Session: INDOOR AIR QUALITY AND HEALTH

Chairman: Piecková E., Stiborová P.

1. **Impact of solar radiation intensity on indoor microclimate in school gyms**
Gábrišová K., Straková Z.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering

2. Case study comparing natural and mechanical ventilation in a kindergarten classroom: impact on thermal comfort, energy efficiency, and a carbon footprint in the context of ESG

Stiborova P., Kolarčík V., Skotnicová I., Šíkula O.: VSB TU Ostrava; Brno University of Technology

3. Assessment of VOC Emissions from Building Materials: A Review of Methods, Standards and Research Trends

Harčárová K., Vilčeková S., Křídlová Burdová E., Budajová E.: Technical University of Košice

4. Possible Indicators of the Indoor Environment

Smoláriková Z., Krajčík M.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering

12:00 – 13:30 Lunch break

13:30 – 15:00 II. Session: INDOOR CLIMATE AND COMFORT OF BUILDINGS

Chairman: Budiaková M., Václavová A.

1. Analysis of the efficiency of tubular light guides and their impact on daylighting design in office spaces

Kolarčík V.: VSB TU Ostrava, Faculty of Civil Engineering

2. Importance of edge zones for thermal comfort in apartment

Budiaková M.: Slovak University of Technology in Bratislava, FAD

3. Indoor environment quality in three typical houses in Slovakia with different levels of renovation

Václavová A., Krajčík M.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering

4. Fault detection in HVAC systems: Comparative analysis of current methods and AI-enhanced opportunities

Schuller K.: FH Burgenland, Pinkafeld, Austria

5. The Role of Buildings in the Emerging Flexibility Market

Bringiotti A.: University of Genoa, Italy

15:00 – 15:30 Coffee break

15:30 – 17:00 III. Session: INDOOR BUILT ENVIRONMENT AND EVALUATION

Chairman: Skotnicová I., Říha J.

1. Alternative methods of cooling

Říha J., Kabele K.: Czech Technical University in Prague, Faculty of Civil Engineering, Czech Republic

2. Options for whole or partial building life cycle assessment: Scientific work, practice, and legislative requirements

Karlová M., Kabrhel M.: Czech Technical University in Prague, Faculty of Civil Engineering, Czech Republic

3. Assessing the influence of natural and mechanical ventilation on the hygrothermal performance of timber frame walls

Skotnicová I., Tymová P., Galda Z.: VSB TU Ostrava, Faculty of Civil Engineering, Czech Republic

4. The effect of radiant systems on thermal comfort in living spaces

Šimko M., Petráš D., Sokol M., Szabó D.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering

5. Analysis of Factors Affecting the Quality of the Indoor Environment of Buildings

Almohammed F., Skotnicová I.: VSB TU Ostrava, Faculty of Civil Engineering, Czech Republic

17:00 – 18:00 CORPORATE LECTURES

20:00 – 23:00 Dinner

2. 12. 2025 Tuesday

08:30 - 09:00 Registration

09:00 – 10:30 IV. Session: ENERGY EFFICIENCY OF BUILDINGS

Chairman: Šíkula O., Predajnianska A.

1. Dynamic Data in BIM

Michalák L., Straková Z.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering

2. Digitization of the cultural center - case study

Gorás Š., Krídlová Burdová E., Katunský D., Harčárová K., Vilčeková S.: Technical University of Košice

3. Energy concept for a modular building using RES in a lightweight building envelope

Bolček M., Kalús D.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering

4. Winter Performance of a Double-Skin Transparent Façade Cavity: Temperature and Airflow under Characteristic Weather Conditions

Šveda M., Slovak University of Technology in Bratislava, Faculty of Civil Engineering

5. Evaluating the environmental impact of ground floor designs

Budajová J., Krídlová Burdová E., Harčárová K., Vilčeková S.: Technical University of Košice

10:30 – 11:00 Coffee break

11:00 – 12:30 V. Session: OUTDOOR ENVIRONMENT AND RENEWABLE ENERGY

Chairman: Vilčeková S., Mudrá M.

- 1. Integration of Renewable Energy Sources into District Heating Systems - Insights from the Low2HighDH Project**
Mudrá M.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering
- 2. Potential Use and Application of a Tubular Heat Exchanger in Heat Recovery Systems for Waste Pool Water in Thermal Baths**
Predajnianska A.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering
- 3. Economic and Environmental Analysis of Waste Heat Recovery from Sewage**
Hrnčárová L., Peráčková J.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering
- 4. Waste Heat Recovery in Buildings**
Kožík B., Koudelková D.: Slovak University of Technology in Bratislava, Faculty of Civil Engineering

12:30 – 13:30 Lunch break

13:30 – 14:00 Closing

Organizational information

30. November – 2. December 2025, Nový Smokovec – Hotel ATRIUM ***, Slovakia

REGISTRATION FEES:

☐ ICB Regular participant	97,56	+ 23%	VAT =	120,00 €
☐ ICB Reduced fee participant (Member of SSTP, SKSI)	81,30	+ 23%	VAT =	100,00 €
☐ Student - Presenter	81,30	+ 23%	VAT =	100,00 €
☐ Lunch	16,26	+ 23%	VAT =	20,00 €
☐ Proceedings book	24,39	+ 23%	VAT =	30,00 €
☐ Proceedings on USB	15,45	+ 23%	VAT =	18,00 €
☐ Special requirements	individual offer at: konferencie@sstp.sk			

* We consider only those participants who have paid the membership fee for 2025 by the start of the conference to be members of SSTP

* (see membership at www.sstp.sk)

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:
Slovak Society of Environmental Technology (SSTP), Kocel'ova 15
815 94 Bratislava, Slovakia
Company ID: 00896918
Tax ID: SK2021491241

Account NO.:	1307192857/0200
Variable symbol:	21 + 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.

Please transfer the participation fee to the SSTP account no later than 28. 11. 2025

- We issue advance invoices only upon request (the application serves as a basis for payment)
- Tax document - we will send you the invoice by e-mail to the address in the application after the conference
- The participation fee cannot be paid in cash at the conference venue
- The application deadline is 24. 11. 2025 - after this date the participation fee will not be refunded
- A substitute is possible and welcome

ACCOMMODATION FEES:

Contractual conference accommodation prices / night

Double room STANDARD / 1 person	90,00 €
Double room STANDARD / 2 persons	103,50 €
Double room EXCLUSIVE / 1 person	99,00 €
Double room EXCLUSIVE / 2 persons	112,50 €
Extra bed	45,00 €

The accommodation price includes: buffet breakfast, parking, WiFi connection, entry to the hotel's vital world 4Elements. The price does not include a local tax of 3.50 euros / person / night

ACCOMMODATION is paid individually by each participant at the hotel reception.



MEALS:

- Buffet lunch: 20.00 €
- You are invited to the welcome reception and dinner by SSTP

Accommodation and meals will be arranged by SSTP according to the completed application form - you DO NOT have to contact the hotel.

The accommodation reservation is binding. In case of non-arrival in the booked room, the participant will bear the cancellation fee.

The programme and registration form can be found on the webpage www.sstp.sk

More information is provided by the organisation guarantor:

- Ing. Karolína Gábrišová (ENG/SK/CZ) icb2025conference@gmail.com
- Jana Lehotová Nôtová (SK/CZ) konferencie@sstp.sk

Please send the registration form to the following e-mail address:

konferencie@sstp.sk

The deadline for applications is 24.11. 2025

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