

25th International Conference Interklima 2019/Zagreb fair
Hall „Brijuni“
Thursday, April 11th 2019

Conference schedule – 1st day

Fran Bošnjaković Day

08:30 – 09:00 Registration of participants
09:00 – 09:10 Greetings and introductory words

Plenary lecture

09:10 – 09:30 Andrej Kitanovski, University of Ljubljana, Faculty of Mechanical Engineering:
Alternative Refrigeration and Heat Pumping Technologies

09:30 – 09:45 Luka Boban, Vladimir Soldo:
Thermal resistance of asymmetrical borehole heat exchanger

09:45 – 10:00 Matej Đuranović, Martina Rauch, Marija Živić, Antun Galović:
Exergy analysis of the air conditioning process

10:00 – 10:15 Antun Galović, Alen Cukrov, Ivanka Boras, Željko Tuković:
The influence of spacing in convective heat transfer between two vertical surfaces at different temperatures

10:15 – 10:30 Netice Duman, Ertan Buyruk, Halil İbrahim Acar, Mustafa Caner, Ferhat Kilinc, Ahmet Can:
Exergy analysis of a ground source heat pump system for cold climatic condition of Sivas, Turkey

10:30 – 10:45 Mustafa Caner, Ertan Buyruk, Ferhat Kilinc, Netice Duman, Ahmet Can:
Daily performance analysis of ground source heat pump system in Sivas, Turkey

10:45 – 11:00 Šefik Behrem, Bahrudin Hrnjica:
Results of optimisation heat transfer coefficient during the quenching of cylindrical samples in aqueous solutions

11:00 – 11:15 Koray Karabulut, Ertan Buyruk, Ahmet Can, Deniz Golbasi, Ferhat Kilinc:
Experimental and Numerical Study of Heat Transfer for Graphene Oxide (GO)-Distilled Water Nanofluid Flowing Through a Copper Circular Tube

11:15 – 11:30 Mihael Gruden, Boris Dekleva, Viktor Gryban:
Control of a recuperative ventilation system in case of ice formation from condensate

11:30 – 11:45 Rok Koželj, Eva Zavrl, Uroš Stritih:
Improvement of thermal energy storage with PCM within EU project Holistic Energy and Architectural Retrofit Toolkit (HEART)

11:45 – 12:00 Coffee Break

12:00 – 12:15 Deniz Golbasi, Ertan Buyruk, Ahmet Can, Koray Karabulut, M. Musab Bayat:
Experimental Investigation of the Effect of Building Distances on the Flow Configuration in Triple Placed Buildings

12:15 – 12:30 Krešimir Osman, Dennis Jankovich:
Approach to the Mechanical Design Projects in the Field of Cooling Plants

12:30 – 12:45 Ahmet Can, Hasan Özgüç Divarçı, Ertan Buyruk:
Design Principles of the Hospital Clean Rooms

- 12:45 – 13:00 Žiga Lampret, Matjaž Prek:
Thermal requirements for the elderly in indoor environment
- 13:00 – 13:15 Borjan Ranilović, Marino Grozdek:
Phase change materials as passive overheating protection in solar collectors
- 13:15 – 13:30 Petar Filipović, Dražen Lončar, Ivan Horvat, Damir Dović:
Influence of different cover plates configurations on thermal performances of a polymer solar collector
- 13:30 – 13:45 Filip Grubišić Čabo, Sandro Nižetić, Ivo Marinić Kragić, Tonko Garma:
Influence of Electrical Yield on Temperature Drop of the Photovoltaic Panel: Numerical and Experimental Findings
- 13:45 – 14:00 Coffee Break
- 14:00 – 14:15 Tomislav Novosel, Borna Doračić, Tomislav Pukšec, Neven Duić:
Energy atlas of Croatia – mapping of energy demand and potential supply
- 14:15 – 14:30 Goran Krajačić, Nikola Matak:
Techno-economic analysis of upgrading heating systems into sustainable DHS
- 14:30 – 14:45 Danica Maljković, Ružica Budim:
Forecasting of energy consumption based on simulation and statistical methods
- 14:45 – 15:00 Marko Mančić, Mirjana Laković, Jelena Janevski, Ivan Pavlović:
Assessment of possibilities of waste utilization in small wood treatment enterprises in the Niš region
- 15:00 – 15:15 Borjan Ranilović, Alen Cukrov, Ivanka Boras, Srećko Švaić, Monika Zovko:
Infrared thermography as a predicting tool for the need of irrigation in agriculture
- 15:15 – 15:30 Ivan Horvat, Stjepan Ćurić, Petar Filipović, Ivan Kodvanj, Srećko Sabalić, Damir Dović:
Use of IR thermography for determining human skin surface temperature when applying medicaments in a form of spray
- 15:30 – 17:00 Banquet

25th International Conference Interklima 2019/Zagreb fair
Hall „Brijuni“
Friday, April 12th 2019

Conference schedule – 2nd day

Energy Efficient Buildings and Renewable Energy Sources

08:30 – 09:00 Registration of participants
09:00 – 09:10 Greetings and introductory words

Plenary lecture

09:10 – 09:30 Ertan Buyruk, Cumhuriyet Universitesi:
Energy Savings by Insulation

09:30 – 09:45 Nikola Vujnović, Dean Vidak, Fran Jakšić, Željko Kedmenec, Damir Dović, Ivan Horvat:
Comparison of EN ISO 13790 and numerical dynamic simulations on annual heating and cooling energy need calculations

09:45 – 10:00 Borna Beš, Petar Filipović, Ivan Horvat, Damir Dović:

Transient numerical model for Dynamic simulation of Solar storage tank

10:15 – 10:30 Ljubomir Majdandžić:

The role of photovoltaic systems in nearly zero-energy buildings

Plenary lecture

10:30 – 10:50 Johann Zirngibl, Scientific and Technical Center for Building (CSTB):
Supports for national implementation of revised EPBD

10:50 – 11:05 Jana Bendžalová:

Renovation Roadmap: From existing building to nZEB– The ALDREN EPC

11:05 – 11:20 Jana Bendžalová:

High quality professional skills – The CEN-CE scheme

11:20 – 11:40 Coffee Break

How EPB standards contribute to quality and confidence in assessment tools:

11:40 – 12:00 Emilien Paron:

Overarching standards (EN/ISO 52000-1)

12:00 – 12:15 Vladimir Soldo:

Heat-pump systems (EN 15316-4-2)

12:15 – 12:30 Damir Dović:

Assesment of technical solutions in nZEBs (EN 15316 standards)

12:30 – 12:45 Laurent Socal:

Measured energy (EN 15378)

12:45 – 13:00 Johann Zirngibl

EPB center

13:00 – 13:15 Debriefing

13:15 – 14:30 Banquet