

KIELCE UNIVERSITY OF TECHNOLOGY

FACULTY OF ENVIRONMENTAL ENGINEERING, GEODESY AND RENEWABLE ENERGY

VII INTERNATIONAL SCIENTIFIC-TECHNICAL CONFERENCE

ACTUAL PROBLEMS OF RENEWABLE ENERGY, CONSTRUCTION AND ENVIRONMENTAL ENGINEERING

Conference languages: Polish, English, Ukrainian

Partners Conference

INSTITUTE OF ENGINEERING THERMOPHYSICS
NATIONAL ACADEMY OF SCIENCES OF UKRAINE





VILNIUS GEDIMINAS TECHNICAL UNIVERSITY



INSTITUTE OF FLUID-FLOW MACHINERY
OF THE POLISH ACADEMY OF SCIENCES



Hanna Koshlak

Department of Sanitary Engineering, Kielce University of Technology

Anatoliy Pavlenko

prof. doctor of science Head of Department of Building Physics and Renewable Energy, Kielce University of Technology

KIELCE, POLAND
14-16 DECEMBER 2023



FRAMEWORK PROGRAM

FIRST DAY - 14 December 2023

Registration of participants

SECOND DAY - 15 December 2023

Conference start time

11⁰⁰–11^{40 time in Kielce} Greeting introduction at the conference

Kielce university of technology

Prof. **Hanna Koshlak** - Development of renewable energy source in Poland, Chairman of the Scientific Committee of the Conference

Institute of Engineering Thermophysics of the National Academy of Sciences of Ukraine

Prof. Borys Basok - Hydrogen energy: "pro" and "contra"

Vilnius Gediminas Technical University, Lithuania

Prof. Violeta Motuzienė - EU taxonomy – implementation of the requirements for building

1200 – 1400 time in Kielce Session | Advances in energy efficient Buildings

Moderator Borys Davydenko

- 12⁰⁰–12²⁰ <u>Ihor Bozhko</u> ANALYSIS OF THE ENERGY PARAMETERS OF THE HEAT PUMP HEAT SUPPLY SYSTEM OF ENERGY EFFICIENT BUILDING
- 12²⁵–12⁴⁵ Natalia Siwczuk INVESTIGATION OF THERMAL COMFORT, PRODUCTIVITY AND LIGHTING AT POLISH UNIVERSITY BUILDINGS

12⁴⁵–13⁰⁰ Questions to the speakers and their answers

1300 – 1415 time in Kielce Session II Latest Research of Building Heat and Mass Transfer

Moderator Borvs Davydenko

- 13⁰⁰ 13²⁰ <u>Borys Davydenko</u> APPLICATION OF A COMBINATION OF TWO DOUBLE-CHAMBER WINDOWS TO INCREASE THE HEAT TRANSFER RESISTANCE OF WINDOW STRUCTURES
- 13²⁰–13⁴⁰ Maryna Moroz EXPERIMENTAL RESEARCH OF HEAT TRANSFER THROUGH HEAT-INSULATED WALL ENCLOSURE STRUCTURES
- 13⁴⁰–14⁰⁰ Sylwia Wciślik Influence of the Heating Surface Geometry on the Droplets evaporation under Leidenfrost Conditions

1400 – 1415 Questions to the speakers and their answers

1200 – 1400 time in Kielce Session III Building performance simulation, energy efficiency and renewable energy resources for buildings

Moderator Violeta Motuzienė

- 12⁰⁰ 12²⁰ <u>Łukasz J. Orman</u> COMPARATIVE ANALYSIS OF THERMAL INSULATION PROPERTIES OF POLISH SINGLE FAMILY HOMES
- 12²⁵–12⁴⁵ <u>Luiza Dębska</u> PERFORMANCE OF THE HEAT PUMP AND PHOTOVOLTAIC SYSTEMS INSTALLED IN THE POLISH HOUSE
- 12⁵⁰–13¹⁰ <u>Dalia Mohammed Talat Ebrahim Ali</u> AI APPLICATIONS IN BUILDINGS: A REVIEW OF ENERGY MANAGEMENT ADVANCEMENTS
- 13¹⁵–13³⁵ <u>Katarzyna Stokowiec</u> HEAT DEMAND COMPARISON FOR ACTUAL TEMPERATURE VALUES
- 13⁴⁰ 13⁵⁵ Questions to the speakers and their answers

1200 – 1400 time in Kielce Session IV Green technologies in environment and energy

Moderator <u>Hanna Koshlak</u>

- 12⁰⁰ 12²⁰ Marta Zegarek RENEWABLE ENERGY SOURCES: SUPPORT MECHANISMS, BENEFITS, AND BARRIERS FOR PROSUMERS AND PRIVATE INVESTORS
- 12²⁵–12⁴⁵ Paweł Lesiak REVIEW OF METHODS FOR CONVERSION OF BIOMASS TO BIOFUELS
- 12⁵⁰–13¹⁰ Robert Matysko COMPUTATIONAL ANALYSIS OF ELECTRIC FIELD EFFECTS ON ELECTRODIALYSIS FOR ENHANCED DESALINATION PROCESSES
- 13¹⁰–13³⁰ <u>Violeta Misevičiūtė</u> MULTI-CRITERIA EVALUATION OF TECHNOLOGICAL SOLUTIONS TO IMPROVE GAS DISTRIBUTION STATION EFFICIENCY
- 13³⁵–13⁵⁰ Questions to the speakers and their answers

1420 – 1440 time in Kielce Summary of the second day conference

THIRD DAY - 16 December 2023

1000 – 1030 time in Kielce Summary and Closing of the VII INTERNATIONAL SCIENTIFIC-TECHNICAL CONFERENCE "ACTUAL PROBLEMS OF RENEWABLE ENERGY, CONSTRUCTION AND ENVIRONMENTAL ENGINEERING"