

**Program of the International Scientific Conference
„SUSTAINABLE USE OF PLANT BIOMASS. TECHNICAL, TECHNOLOGICAL,
ENVIRONMENTAL, AND LEGAL PROBLEMS”
January 14-16, 2026, Krynica Zdrój, Poland**

Wednesday, January 14, 2026

- 13:30 – 14:45 Registration of the participants (*Check-in from 2:00 PM*)
14:45 – 15:00 Welcoming the participants and opening of the Conference
- Plenary session**
15:00 – 16:30 **Moderator: prof. dr hab. inż. Grzegorz Szewczyk**
Arkadiusz Gendek, Monika Aniszewska, Paweł Tylek, Grzegorz Szewczyk, Jozef Krilek, Iveta Čabalová, Jan Malaťák, Jiří Bradna, Katalin Szakálos-Mátyás **„Logging residue torrefaction and pressure agglomeration as a method to conserve fossil fuels”**
Wojciech J. Cichy, Magdalena Witczak, Małgorzata Walkowiak **„Local Biomass Centers as a way to solve energy problems for residents of rural areas and small towns”**
Taras Hutsol, Iryna Horetska **„International cooperation between public and private institutions in sustainable development projects”**
- 16:30 – 16:45 **COFFEE BREAK**
- Session No. 1**
16:45 – 18:00 **Moderator: doc. Ing. Iveta Čabalová, PhD.**
Savelii Kukharets, Valentyna Kukharets, Taras Hutsol. **Specific features of biofuel production from biomass in agriculture**
Małgorzata Walkowiak, Magdalena Witczak, Wojciech J. Cichy. **Carbonization of residues from the wood-based panel industry for producing solid biofuels for industrial applications**
Jan Velebil, Jan Malaťák, Jiří Bradna, Barbora Tunklová, Arkadiusz Gendek, Lukáš Jeníček, Tomáš Kušev. **The enhancement of biomass by thermal treatment with regards to meeting biofuel technical standards**
Krzysztof Mudryk, Marcin Jewiarz, Marek Wróbel. **Utilization of agro-food residues in the production of high-quality solid biofuels**
Martin Lieskovský, Miloš Gejdoš, Michal Ferenčík. **Comparison of energy properties of agricultural and forestry biomass as a renewable energy source**
- 18:30 – 22:00 **WELCOME DINNER**

Thursday, January 15, 2026

07:30 – 08:30

BREAKFAST

Session No. 2

09:00 – 10:15

Moderator: dr hab. inż. Wojciech Cichy

Luboš Passian, Jan Malaťák, Jiří Bradna, Jan Velebil, Petr Vaculík. A comparison of bricketed biofuels for a combustion equipment with a power output up to 10kW

Magdalena Dąbrowska, Urszula Błuszkowska. From raw biomass to high-quality pellets: technical challenges and sustainable solutions

Iveta Čabalová, Jozef Krilek, Anna Darabošová. Chemical components and energy potential in stored spruce wood and bark

Magdalena Witczak, Małgorzata Walkowiak, Wojciech J. Cichy. Assessment of the energy parameters of various lignocellulosic feedstocks used in biofuel production

Roman Honzík, Jan Malaťák, Jiří Bradna, Jan Velebil, Barbora Tunklová, Martin Stehlík. The effective method of decomposition of purpose-grown energy biomass

10:15 – 10:30

COFFEE BREAK

Session No. 3

10:30 – 11:45

Moderator: prof. h. c. prof. Ing. Jozef Krilek, PhD.

Wiktor Pacura, Julia Domagała, Tomasz Mirowski, Radosław Wąsik, Roland Irslinger.

Logging from forests and environmental protection: a case study of German beech forests

Michal Skladan, Martin Lieskovský, Juliana Chudá, Jozef Výboštok, Michal Ferenčík.

Estimation methods of dendromass on fast-growing tree plantations

Mariusz Kormanek. Analysis of work efficiency when chipping forest residues with the albach diamant 2000 chipper

Vladimír Mancel, Tomáš Kuvik, Jozef Krilek, Ján Kováč. Evaluation of selected properties in wood chipping

Miloš Gejdoš, Martin Lieskovský, Michal Ferenčík, Tomáš Gergel. Evaluation of techniques for measuring small wood chip heaps via laser scanning

11:45 – 12:15

COFFEE BREAK AND GROUP PHOTO

Session No. 4

12:15 – 13:30

Moderator: dr hab. inż. Krzysztof Mudryk, prof. URK

Jonas Česna, Oleg Kucher, Taras Hutsol. Development of the biogas market in Ukraine and the EU

Tomáš Kušev, Jan Malaťák, Jiří Bradna, Jan Velebil, Barbora Tunklová, Martin Stehlík. The Usage of Alternative Biomass Materials for biogas production with regards to energy yield

Jozef Krilek. „Cutting wood during primary wood processing in the forest industry”

Martin Stehlík, Markéta Mayerová, Jan Velebil. „Application of hydrosorbents increases the growth of fast-growing poplars”

Anna Darabošová, Tatiana Bubeniková, Iveta Čabalová. „Impact of new wood – plastic composites on indoor air quality. A voc emission study”

13:30 – 14:30

LUNCH

Session No. 3

15:00 – 18:30

Moderator: dr hab. inż. Monika Aniszewska, prof. SGGW

Field session (departure by coach)

19:00 – 24:00

GALA DINNER

Friday, January 16, 2026

7:30 – 8:30

BREAKFAST

Session No. 5

09:00 – 10:15

Moderator: prof. Ing. Jan Malat'ák, PhD.

Florian Adamczyk. The process of burning wood chips in a dual-combustion automatic heating boiler

Jiří Bradna, Tomáš Kušev, Jan Malat'ák, Jan Velebil, Barborá Tunklová, Martin Stehlík. Classification of waste materials for energetic production and used disintegration technology

Iveta Čabalová, Jozef Krilek, František Kačík, Rastislav Lagaňa. Assessment of grapevine cuttings as a renewable feedstock for bioenergy and pellet production

Oleksandra Hutsol, Oksana Vasylenko, Iryna Horetska. Development of a multifunctional optimization model, algorithm and software for resource recovery from agricultural waste

Barbora Tamelová. Valorization of fruit tree wood for renewable energy and biochar

10:15 – 11:15

COFFEE BREAK AND CHECK-OUT (Check-out until 11:15 AM)

Session No. 6

11:15 – 12:15

Moderator: dr hab. inż. Florian Adamczyk, prof. UPP

Tomáš Kuvík. Splitting process of european beech using a classic splitting wedge

Marek Wróbel, Marcin Jewiarz. Material properties changes caused by high temperature drying – walnut shells case study

Paweł Kielbasa, Anatolij Tryhuba, Tetiana Hrekova. Models for sustainable management of livestock waste based on neural network architectures

*Danuta Owoc, Paweł Ćwikła. Brinell hardness testing of willow (*Salix viminalis*) intended for biomass*

12:15 – 12:45

SUMMARY AND CONCLUSION OF THE CONFERENCE

12:45 – 13:45

LUNCH AND DEPARTURE