

OPEN SCIENCE WEEK
20 – 26 October, 2025

WP3 Across Alliance Borderless **Research** & Innovation
T3.2 Across border R&I network

WORKSHOP

BIOMASS: SOURCES, PROCESSING AND VALORIZATION

Energy plant cultivation technologies

Machinery and equipment for biomass harvesting and processing

Biomass and waste conversion into biofuels and biochemicals

organized by

Doctoral School of Animal and Plants Resources Engineering,
Faculty of Agronomy, Faculty of Horticulture - University of Craiova
The National Institute of Research – Development for Machines and Installations Designed for
Agriculture and Food Industry – INMA Bucharest
Agricultural Research Development Station Secuieni, Romania

and

Faculty of Civil Engineering and Environmental Sciences,
Faculty of Mechanical Engineering, Bialystok University of Technology, Poland

Event details

Location: INCESA, Craiova, Romania, room 315 and on-line

Date: October 24, 2025

Time: 10:00 – 13:00 EET

across

EUROPEAN
CROSS-BORDER
UNIVERSITY



Engineering of Animal and Plant
Resources



WORKSHOP

BIOMASS: SOURCES, PROCESSING AND VALORIZATION

24 October, 2025

INCESA, University of Craiova, room 315 and online

Topics

Energy plant cultivation technologies
Machinery and equipment for biomass harvesting and processing
Biomass and waste conversion into biofuels and biochemicals

Organizing committee

Gheorghe MATEI, University of Craiova
Monika KALINOWSKA, Bialystok University of Technology
Monica ROMAN, University of Craiova
Dan SELIȘTEANU, University of Craiova
Mădălin MĂMULEANU, University of Craiova
Adriana Dowbysz, Bialystok University of Technology

Workshop Program

October 24th, 2025

Chair - Monika KALINOWSKA, Bialystok University of Technology

Chair - Gheorghe MATEI, University of Craiova

10:00 – 10:20

Güray Yildiz, “Pyrolysis of biomass for the production of alternative fuels and chemicals”

Bialystok University of Technology, Faculty of Mechanical Engineering, Institute of Mechanical Engineering, Department of Materials and Production Engineering

10:20 – 10:40

Agnieszka Wysocka-Czubaszek, Robert Czubaszek, “Biogas production potential of waste materials: research insights and challenges”

Bialystok University of Technology, Institute of Environmental Engineering and Energetics, Department of Agri-Food Engineering and Environmental Management

10:40 – 11.00

Paweł Cwalina, Sławomir Obidziński, „The use of waste materials from agri-food processing as components of solid fuels in the form of pellets”

Bialystok University of Technology, Faculty of Civil Engineering and Environmental Sciences, Institute of Environmental Engineering and Energetics, Department of Agri-Food Engineering and Environmental Management

11:00 – 11.20

Lorena Diana Popa*, Gheorghe MATEI**, “Hemp biomass for the future: innovations and opportunities for sustainable valorization”

**Agricultural Research Development Station Secuieni - Romanian Academy of Agricultural Sciences*

***University of Craiova*



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA



11:20 – 11:40

Iuliana Găceanu, Valentin Vlăduț, “Technologies and equipment for biomass processing”
The National Institute of Research – Development for Machines and Installations Designed for Agriculture and Food Industry – INMA Bucharest

11:40 – 12:00

Vladimir Bobu, Mihai Anghel, “Concept of Security for Food-Environment-Energy”
Eco Sorghum Group

12:00 – 12:20

Ramona-Raluca Handolescu*, Violeta-Carolina Niculescu*, Sina Niculina Cosmulescu**, “From waste to functional material: obtaining biochar from apple pomace and potato peels for adsorption and soil improvement”

*National Research and Development Institute for Cryogenic and Isotopic Technologies - ICSI
Râmnicu Vâlcea

***University of Craiova*

12:20 – 12:40

Maria Mandache, Sina Niculina Cosmulescu,” Functional biscuits with a fruit pomace – a sustainable solution”

University of Craiova

12:40 – 13:00

Discussions