

ENVIRONMENT WORKSHOPS 2022

“**BIOREFINERIES, A KEY
CONCEPT FOR ACHIEVING
THE SUSTAINABLE
DEVELOPMENT GOALS**”

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Internacional
de Andalucía
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SCOPE

Biomass resources and biorefineries will play a pivotal role in a roadmap for humanity toward sustainable development.

Biomass resources include a great variety of biogenic materials both from plants and animals, which show different properties and chemical compositions, making biomass a valuable and versatile resource suitable for many different applications aimed at decarbonizing various industries and sectors. In particular, biomass resources can be valorized as feedstocks for the so-called biorefineries. A biorefinery is a processing facility that employs biomass to generate renewable bioenergy or converts the biomass-derived renewable carbon into value-added products such as biofuels or fine, specialty and platform chemicals. These value-added biobased products can displace their fossil-based counterparts, thus contributing to the transition towards a circular and climate-neutral economy while creating new business opportunities for regional growth. Besides the EU, an increasing number of countries are developing and implementing bioeconomy strategies. While the original emphasis was on climate protection and on reducing dependency on fossil resources, other sustainability dimensions need to be addressed as well, in particular those spelled out by the Sustainable Development Goals (SDGs), so that bioeconomy transitions become integral part of an overall sustainability transition.

This workshop aims to raise awareness of the potential role of biorefineries in the transition towards sustainable development. The workshop will discuss the latest research advances in biorefineries, including the main challenges, perspectives, and new opportunities for business models. The workshop is organized into three focus areas: 1) Lab-scale developments: Biomass resources and characterization; 2) Biochemical and thermochemical platforms: biomass upgrading processes and, 3) Techno-economic and environmental evaluation of biorefineries and design and optimization value chains.

FORMAT OF THE WORKSHOP

The workshop will bring together 15 speakers and a maximum of 35 participants. The scientific programme will start in the morning on Wednesday, 30th March, and will end on Friday, 1st April. Ample time for informal discussion will be reserved.

Participants will be invited to present a poster.

VENUE OF THE WORKSHOP

The workshop will be held in Baeza, at the “Sede Antonio Machado”, a XVII century building turned into a Conference Centre of the International University of Andalusia (UNIA). This site includes a recently restored residence, where speakers and participants will be accommodated. Baeza is a World Historic Heritage town, renowned for its Renaissance and Gothic buildings.

SPEAKERS

Dr. Eulogio Castro. Professor at the Department of Chemical, Environmental and Materials Engineering. Director of the Centre for Advanced Studies in Earth Sciences, Energy and Environment. University of Jaén. Spain.

Dr. Jalel Labidi. Senior Researcher at the Department of Chemical and Environmental Engineering of the University of the País Vasco. Spain

Dr. Apostolis Koutinas. Associate Professor at the Department of Food Science and Human Nutrition of the Agricultural University of Athens. Greece.

Dr. Filomena Barreiro. Centro de Investigação de Montanha, Polytechnic Institute of Bragança, Portugal.

Dr. Nicolas Brosse. Professor Faculté des Sciences et Technologies. University of Lorraine. France.

Dr. Carlos Cardona. Departamento de Ingeniería Química Universidad Nacional. Colombia.

Dr. María del Mar Contreras. “Ramón y Cajal” Researcher. Department of Chemical, Environmental and Materials Engineering. University of Jaén. Spain.

Dr. Ángel Galán. “Beatriz Galindo” Researcher. Department of Chemical, Environmental and Materials Engineering. University of Jaén. Spain

Dr. Francisco Gírio. Head of Bioenergy & Biorefineries Unit. LNEG-National Laboratory of Energy and Geology, Lisbon, Portugal

Dr. Alberto Gómez Barea. Professor at the Department of Chemical and Environmental Engineering of the University of Sevilla. Spain.

Dr. Concepción Herrera. Associated professor at the Department of Chemical Engineering of the University of Malaga. Spain.

Dr. Laureano Jiménez. Professor at the Department of Chemical Engineering. University Rovira i Virgili. Spain.

Dr. Keikhosro Karimi. Invited researcher at the Department of Chemical Engineering. Vrije Universiteit Brussel. Belgium.

Dr. Alfredo Martínez. Dpt. Ingeniería Celular y Biotecnología, Universidad Nacional Autónoma (UNAM), México.

Dr. Ismael Nieves. Senior Director, Fermentation R&D. Meati Inc., Colorado, USA.

Dr. Armando Silvestre. Full professor. Dept. of Chemistry. University of Aveiro. Portugal.

Dr. Joachim Venus. Senior scientist. Head of the research group Bioconversion. Leibniz Institute for Agricultural Engineering and Bioeconomy. Potsdam. Germany.



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CEACTEMA
CENTRO DE ESTUDIOS AVANZADOS
EN CIENCIAS DE LA TIERRA,
ENERGÍA Y MEDIO AMBIENTE



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ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
AGRICULTURAL UNIVERSITY OF ATHENS

BAEZA, SPAIN

30th March to 1st April
2022

ORGANIZED BY:

Eulogio Castro, Professor of Chemical Engineering at the University of Jaén, Spain.

Jalel Labidi, Senior Researcher at the Department of Chemical and Environmental Engineering of the University of the País-Vasco, Spain.

Apostolis Koutinas, Associate Professor at the Agricultural University of Athens, Greece.

COORDINATED BY:

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MORE INFORMATION

<https://www.unia.es/environment>

DEADLINE:

For application: 9 March, 2022

VENUE:

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