

## INTERNATIONAL ENVIRONMENTAL WORKSHOP

### ***SUSTAINABLE MATERIALS, GREEN FUELS AND CARBON VALORIZATION: THE NEXT GENERATION OF BIOREFINERIES.***

**International University of Andalucía  
Sede Antonio Machado of Baeza (Jaén)**

**DATE: 2nd-4th JUNE 2026**

#### PRELIMINARY PROGRAM

##### **Monday, June 1, 2026**

Arrival & Welcome at the UNIA Headquarters in Baeza

**18.00-20.00: Registration**

*21:00 h Dinner*

##### **Tuesday, June 2, 2026**

09:30-10:00 h Welcome and institutional presentation.  
Representatives from UNIA and workshop representation:

**María del Mar Contreras. University of Jaén, Spain**  
**Apostolis Koutinas. Agricultural University of Athens, Greece**  
**Filomena Barreiro. Polytechnic Institute of Bragança, Portugal**

SESSION 1. *Biorefineries: Technologies, Products and Sustainability.*  
Chairs: **Filomena Barreiro**

10:00h *Biorefineries: An Unavoidable Path to a Sustainable Future.* **Eulogio Castro. Universidad de Jaén, Spain**

10:30h *Bioactive Compounds Recovery in Multi-Product Biorefineries.* **María del Mar Contreras. Universidad de Jaén, Spain**

11:00h *Production and Applications of Cellulose Nanofibers.* **Jalel Labidi, University of the Basque Country, Spain**

*11:30h Coffee break*

12:00h *From Waste to Value: Polysaccharides and Sustainable Functional Materials.* **Armando Silvestre. University of Aveiro, Portugal**

12:30h *Bio-based Graphite and Liquid Fuels from Biomass.* **Sunkyu Park, North Carolina State University, USA**

13.30-15.30h Lunch

15:30h *The CIUDEN Project on Demonstration of Renewable Fuels for Real-world Demonstration.* **Alberto Gómez Barea. University of Seville/CIUDEN, Spain**

16:00h *Sustainability and Process Profitability Aspects for the Production of Platform Chemicals and Biopolymers via Biorefinery Development using Waste Streams.* **Apostolis Koutinas. Agricultural University of Athens, Greece**

STUDENT SESSION A. Student research presentations  
Chair: **Gabriel Acién**

16:30h PhD student oral presentations

17:30h Coffee break

18:00h Poster session A

20:00h Guided tour to Baeza

21:00h Dinner

### **Wednesday, June 3, 2026**

SESSION 2. Circular Bioeconomy: Integration, Assessment and Scale-Up  
Chairs: **María del Mar Contreras, Eulogio Castro**

9:15h *Algae Biorefineries for a Circular Bioeconomy.* **Gabriel Acién. University of Almería, Spain**

09:45h *Valorizing Biorefinery Streams: Cellulose and Lignin for Pickering Emulsions.* **Filomena Barreiro. Polytechnic Institute of Bragança. Portugal**

10:15h *Sustainability Analysis of an Integrated Biorefinery for Bio-Plastics Building Blocks from Municipal Solid Waste.* **Keikhosro Karimi. Vrije Universiteit Brussel, Belgium**

10:45h *Sustainable Catalytic Strategies for Biomass Valorization: From Nanomaterials to Green Fuels and Platform Chemicals.* **Antonia Infantes. University of Málaga, Spain**

11:30 h Coffee break

12:00h *Development of Zeolite-based Catalysts for Bio-based Aviation Fuels.* **David Serrano, IMDEA-Energy, Spain**

12:30h *Sargassum Conversion into High-value Products.* **Camila Garcia, North Carolina State University, USA**

13.30-15.30h Lunch

STUDENT SESSION B. Student research presentations

Chair: **Keikhosro Karimi**

15:30h PhD student oral presentations

*17:30h Coffee break*

18:00h Poster session B

19:00h End of works

*21:00h Dinner*

**Thursday, June 4, 2026**

SESSION 3. *Circular Bioeconomy: Integration, Assessment and Scale-Up*

Chair: **Apostolis Koutinas**

9:15h *Inclusion as a Necessary Condition for Sustainable Biorefineries.* **Lotte Asveld, TUDelft, The Netherlands**

09:45h *Beyond Technology: Social Governance, Sustainability Indicators and CCUS in Biorefinery Deployment.* **Rocío Díaz-Chávez, Imperial College London, UK**

10:15h *Beyond Green: How Systems Modelling and Life Cycle Analysis Enable True Sustainability.* **Ángel Galán, Universidad de Jaén, Spain**

10:45h ROUND TABLE. Challenges for the Implementation of Biorefineries. A Multinational Vision

Moderator: **Eulogio Castro, Jalel Labidi, Lotte Asveld, Filomena Barreiro, Apostolis Koutinas, David Serrano**

*11:30h Coffee break*

12:00h Conclusions and closing ceremony