



**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**

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

12:30h *The CIUDEN Project on Demonstration of Renewable Fuels for Real-world Demonstration*. **Alberto Gómez Barea. University of Seville/CIUDEN, Spain**

13.30-15.30h *Lunch*

15:30h *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**

16:00h PhD student oral presentations

17:30h *Coffee break*

18:00h Poster session A

20:00h Guided tour to Baeza (pick-up at Plaza de Santa María; UNIA gate facing the Cathedral)

21:00h Dinner

**Wednesday, June 3, 2026**

SESSION 2. *Circular Bioeconomy: Integration, Assessment and Scale-Up (part 1)*

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 (part 2)*

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