



Waste biorefinery technologies for accelerating sustainable energy processes

WIRE COST Action 1st Training School

“Waste biorefineries: feedstock, conversion technologies, products and applications”

15-19th July, Lisbon & Portalegre, Portugal

Program

Day 1 (15/07/2024)

Location: School of Science and Engineering, NOVA University of Lisbon, Quinta da Torre, 2829 -516 Caparica

9.00-9.30: Welcome of the participants by the Action Chair and NOVA Trainers

09.30-10.30: “Characterization techniques for assessing feedstock quality and composition” – Carla Rodrigues e Nuno Costa

10:30-11.00: Coffee break

11.00-12.00: “Sourcing sustainable feedstocks: Strategies for identifying and procuring raw materials and exploring novel feedstock options”– Ana Luísa Fernando

12.00 – 13.00: Tour to the lab and pilot-scale facilities

13.00-14.30: Lunch

14.30-15.30: “Agro-industrial residue valorization for production of bioplastics and bio-composites” – João Pires

15.30 -16.30: “Biochars as adsorbents or catalysts – Carbonization, activation and modification technologies” – Margarida Gonçalves

16:30 - 17.00: Moscatel wine tasting, group photo, and end of day 1



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Day 2 (16/07/2024)

Location: Instituto Superior Técnico, University of Lisbon, Avenida Rovisco Pais, 1049-001 Lisboa

8.30-9.00: Signing of the attendance list

9.00-9.30: Welcome of the participants by IST Trainers

09.30-10.30: “Value-added products from biorefineries: Opportunities and challenges” – Rui Galhano

10.30-11.00: Coffee break

11.00-12.00: “Market analysis and commercialization strategies for biorefinery products” – George Skevis

12.00-13.00: “Hydrogen in the context of biorefineries” – Diogo Santos

13.00-14.00: Lunch

14.00-15.00: “Biorefinery integration into existing industries. European case studies and best practices” – Alexandre Gaspar

15.00-16.00: “Scientific communication: Strategies for clear and engaging presentations” – Joana Lobo Antunes

16.00-17.00: “European patents and intellectual property rights” – Atif Emre Demet

17.00: Group photo and end of day 2



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Day 3 (17/07/2024)

Location: Laboratório Nacional de Energia e Geologia (LNEG) - Estrada do Paço do Lumiar, 22 1649-038 Lisboa

9.30: Signing of the attendance list

10.00-10.30: Welcome of the participants by LNEG staff

10.30-13.00: Extended visit to LNEG research infrastructures with a group photo by the end.

13.00: End of technical visit

16.00: Meeting at “Estação do Oriente” for departure to Portalegre.

19.30: Arrival at Portalegre (Praça do Rossio)

End of day 3



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Day 4 (18/07/2024)

Location: Portalegre Polytechnic University, Campus Politécnico 10, 7300-555 Portalegre, Portugal

8.30-9.00: Signing of the attendance list

9.00-9.30: Welcome of the participants by IPP Trainers

9.30-10.30: “Bioenergy: A general overview” – Bruna Rijo

10.30-11.00: Coffee break

11.00-12.00: “Pretreatment methods to enhance efficiency and yield in biorefineries” – Catarina Nobre

12.00-13.00: “Biological conversion processes. How to harness microorganisms for biochemical production” – Luiz Rodrigues

13.00-14.00: Lunch

14.00-15.30: “Unlocking energy potential and product diversity with thermochemical conversion processes” – Paulo Brito

15.30-16.30: “Advances in chemical transformations for biorefineries via catalytic conversion techniques” – Cecilia Pedrero

16.30-17.30: “Research and innovation funding schemes” - Dora Almeida

17.30: Group photo and end of day 4



Waste biorefinery technologies for accelerating sustainable energy processes

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Day 5 (19/07/2024)

*Location: Portalegre Polytechnic University, Campus Politécnico 10, 7300-555
Portalegre, Portugal*

8.30-9.00: Signing of the attendance list

09.00-10.30: Short presentations by the trainees

10.30-11.00: Coffee-break

11.00-13.00: Short presentations by the trainees (cont.)

13.00-14.30: Lunch

14.30-16.00: Visit to IPPortalegre's infrastructures

16.00-17.00: Group photo and closing session

17.00: End of training school

20.00: Dinner with all training school participants (Varanda do Alentejo, Marvão).



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Day 6 (20/07/2024)

8.00: Departure to Lisbon (bus located at Praça do Rossio, leaving for Lisbon airport)



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Evaluation

- The trainees will be asked to give a **10-minute PowerPoint presentation** (+ 2-minute discussion) on the last day of the Training School. The presentation should discuss the relation between their current work and WIRE and the Training School contents.
- After the training school, trainees will prepare a final report (encompassing lessons learned in all lectures and technical visits) and submit it to **wire.ca20127@gmail.com** by **July 31st, 2024**. The template for the final report will be sent to all trainees via e-mail.
- All trainees will receive their grades, a certificate of attendance, and be granted 2 ECTS – corresponding to 35 hours of classes + technical visits and 15 hours of independent work to elaborate the final report (PhD students) after wrapping up the Training School.