



Waste biorefinery technologies for accelerating sustainable energy processes

WIRE's 1st Working Groups Workshop

Naples, 6-7th October 2022

October 6, 2022

9:00 – 9.30 h: Registration & Signing of Attendance List

9.30 – 10.00 h: Welcome to participants by the Action Chair and Local Organizing Committee

10:00 – 11:00 h: Working Group 1 Presentations and Q&A
(Moderator: *Maciej Kluz, WG1 Leader*)

- “Biorefinery approach for producing biofuels and biopolymers from residues of quinoa harvest and processing”, [Carlos Martín](#)
- “Feedstocks and (bio)technologies for biorefineries”, [Joachim Venus](#)
- “Waste nutrients recycled for use in urban farming”, [George Attard](#)

11:00 – 11:45 h: Coffee break & Poster Session

11:45 – 13:00 h: Working Group 2 Presentations and Q&A
(Moderator: *Marta Trninic, WG2 Leader*)

- “Anaerobic digestion of second crops and agro industrial by-products: a focus on the Italian Biogasdoneright® model”, [Erika Sinisgalli](#)
- “Utilization of biomass residue with agro-forest origin”, [Ognyan Sandov](#)
- “Evolutionary optimization of biofuels for highly efficient combustion engines with low exhaust emissions”, [Tim Franken](#)
- “Biobased technologies and biorefinery towards carbon neutrality”, [Gopalakrishnan Kumar](#)

13:00 – 14:45 h: Lunch



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14:45 – 16:00 h: Working Group 3 Presentations and Q&A
(Moderator: *Corinna Grottola, WG3 Leader*)

- “*Integrated production of energy, fertilizer and microalgae from biowastes*”, [Ilda Degirmentas](#)
- “*Factors determining successful wastes to biogas projects*”, [Xinmin Zhan](#)
- “*A feasible strategy to replace fossil-fuel based material in bitumen and asphalt processing and rejuvenation through Refuse Derived Fuels (RDFs) thermochemical valorization*”, [Michela Alfe](#)
- “*Technological carbon from biomass*”, [Gökçen Akgül](#)

16:00 – 16:30 h: Coffee break & Poster Session

16:30 – 17:30 h: Working Group 4 Presentations and Q&A
(Moderator: *Diogo Santos, WG4 Leader*)

- “*Communication and Dissemination across Europe, One Size does not fit all*” [Eoin Syron](#)
- “*Taking advantage of WIRE special issues for results publication*”, [Diogo Santos](#)
- “*Gender dimension in research*”, [Ana Paula Ramos](#)

20.00 h: Networking cocktail and end of the first day



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October 7, 2022

9:45 – 10:00 h: Registration & Signing of Attendance List 2nd day

10:00 – 10:30 h: Presentation by the Action Chair on WIRE's progress and the summary of the Action's first year.

10:30 – 11:00 h: Presentation by the Action Vice-Chair on proposals for WIRE's 2nd year.

11:00 – 12:30 h: 'WIRE Round table'

Moderators

WG1: Carlos Orestes Martin Medina; Franisco M. Cànovas

WG2: Fabian Mauss; Joachim Venus

WG3: Paola Giudicianni; Tunc Durmaz

WG4: Selim Sanin; Emre Demet

12:30 – 14:45 h: Lunch

15:00 – 16:00 h: Lab tour

16:30 h: End of WIRE's 1st Working Groups Workshop



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WIRE's 1st Working Groups Workshop

Poster Sessions

(During coffee-breaks on Thursday)

Author	Title	WG
Alejandro Rodríguez	What can lignocellulosic agrifood residues do for us?	1
Hilal Taymaz-Nikerel	Thermodynamic feasibility analysis of E. coli metabolic model	1
Valentina Gargiulo	Xylan Slow Pyrolysis: what have we learned so far?	1
Francisco Cánovas	Tailor-made trees for biomass production	1
Roberta Panizio	Challenges of recovery and converting waste electrical cable insulation – a review	1
Isik Semerc	Processing of paper mill sludge with green solvents solvents as a potential feedstock for biorefineries	1
Rafal Lukasik	Biorefinery contribution to the circular economy: Use of more sustainable solvents in the biomass conversion technologies	2
Maria G. Antoniou	CYANOTECH: A sustainable and innovative management system for toxic cyanobacteria blooming of surface waters with combined energy production, sustainable agriculture, and food safety	2
Erika Vági	Valorisation of fruit and winery wastes by high pressure technologies	2



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Author	Title	WG
Jaime Moreno-García	Current trends and outlook for second-generation ethanol production using yeast immobilization systems	2
Charalambos Chasos	Biowaste streams and prospects for sustainable and cyclical utilization of biorefinery technologies and products for the case study of a wooden-pellets unit in Cyprus	2
Kenan Dalkilic	Biogas Production Potential of Various Wastes in Turkey	2
Nerijus Striūgas	Biomethane from synthetic gases produced by biomass gasification	2
Selim Sanin	Metamorphosis of Refinery	2
Rui Galhano dos Santos	Can steam reforming of bio-oil be a route for hydrogen production?	2
G.B. Ariemma	MILD Combustion of gas surrogates from biomass pyrolysis	2
Maria Virginia Manna	Investigation on the effect of nitrogen compounds on the oxidation of surrogate gaseous fraction of biomass pyrolysis compounds	2
Cigdem Yangin-Gomec	Improved Energy Recovery from the Organic Wastes through Anaerobic Co-Digestion of Different Feedstocks	3



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Author	Title	WG
Bojana Bajic	Modelling of Bioethanol Production from Different Wastes and By-products	3
Charikleia Poravou	Valorization of agricultural waste with the aid of solar hydrothermal liquefaction	3
Nurinisa Esenbuga	Biogas as an alternative energy source in Turkey	3
Eduardo Espinosa	Multi-product cascading biorefinery of by-products from the processing food industry: orange peel for circular valorization for active packaging production.	3
Paola Giudicianni	Effect of Heating Rate and Feedstock on Electrical Properties of Biochar	3
Davide Amato	Chestnut derived biochar for the adsorption of bioactive organic molecules	3
Ester Scotto di Perta	The application of biochar as strategy to mitigate the ammonia emissions from the manure storage tank: Effect of the pyrolysis temperature	3
Ana Carolina Assis	The importance of disseminating scientific research in scientific social media	4