



BIO ENERGY

SECONDA EDIZIONE

&

BIO ECONOMY SCHOOL

Organizzata da

ENEA

In collaborazione con

 **FONDAZIONE ENI
ENRICO MATTEI**

Finanziata da

AIDIC

RdS
RICERCA DI SISTEMA

Monday 1st December

Biotechnological Innovations and Infrastructure for the Bioeconomy

- 8.30-9.00** **Registration**
- 9.00-9.30** **Welcome from the heads of the ENEA Departments**
Eng. Giulia Monteleone (TERIN Dep.), Dr. Claudia Brunori (SSPT Dep.)
- 9.30-10.00** **Introduction to the School and organizational structure**
*Dr. Isabella De Bari (BBC Div.), Eng. Nadia Cerone (Lab.), Dr. Egidio Viola (Lab.),
Dr. Roberto Balducchi (Lab.)*
- 10.00-11.00** **Bioplastics from agro-industrial residues: turning waste into a resource
in a circular challenge**
Prof. Annamaria Celli (UniBO)
- 11.00-11.30** **Coffee Break**
- 11.30-12.30** **Innovation in extraction and separation processes in the context
of multi-product biorefineries**
Prof. Vincenza Calabrò (UniCAL)
- 12.30-13.30** **Green-Blue Agriculture: Aquaponics for the Future of Sustainable Agriculture**
Dr. Luca Bramucci (IRCIPONIC)
- 13.30-14.30** **Pausa lunch**
- 14.30-17.00** **Visit to regenerative circular bioeconomy infrastructure**
Dr. Roberto Balducchi (ENEA) and ENEA researchers
- 17.00-18.00** **Introduction to Co-Working activity**
Eng. Aristide Giuliano

Tuesday 2nd December

Thermochemical, Biochemical & Catalyzed processes for biofuel Production

- 8.30-9.30** **Co-working groups**
ENEA researchers + student groups
- 9.30-10.30** **Microbial and process biotechnologies: solutions for the valorization
of agro-industrial waste**
Prof. Isabella Pisano (UniBA)
- 10.30-11.30** **Hydrothermal Liquefaction as a Key Technology for Converting Wet Biomass into Biofuels**
Prof. Benedetta De Caprariis (UniROMA1)
- 11.30-12.00** **Coffee Break**
- 12.00-13.00** **Advanced Electrified Reactors for Biogas Conversion: Structured Catalysts and Integration
with Dense Membranes for Decarbonized High-Purity Hydrogen Production**
Prof. Vincenzo Palma (UNISA)
- 13.00-14.00** **Lunch break**
- 14.00-16.30** **Visit to biofuel infrastructure facilities from thermochemical, chemical-catalytic
and biotechnological processes**
Eng. Nadia Cerone (ENEA), Dr. Egidio Viola (ENEA) and ENEA researchers
- 16.30-18.00** **Co-working groups**
ENEA researchers + student groups

DRAFT PROGRAMME

ENEA TRISAIA
Research Center

Wednesday 3rd December

Integrated Cascade Strategies in Biomass-to-Bioenergy Systems

- 8.30-9.30** **Co-working groups**
ENEA researchers + student groups
- 9.30-9.45** **EU perspectives on bioenergy and sustainable fuels, circular and bio-based economy (remotely)**
Eric Van Den Heuvel (IEA Bioenergy) to be confirmed
- 9.45-10.30** **Anaerobic digestion: from biogas to biomethane and applications for CHP**
Prof. Paolo De Filippis (UniROMA1)
- 10.30-11.30** **Biomass Use and Levelized Electricity Costs in Different Scenarios**
Prof. Enrico Bocci (UNIMARCONI)
- 11.30-12.00** **Coffee Break**
- 12.00-13.00** **Le Comunità Energetiche Rinnovabili. Definizioni, tecnologie, prospettive, barriere**
Prof. Antonio D'Angola (UniBAS)
- 13.00-14.00** **Lunch break**
- 14.00-16.30** **Visit to facilities for the production of bioenergy (CHP applications) and intermediates for green chemistry (biolubricant production)**
Dr. Donatella Barisano (ENEA), Eng. Pietro Garzone (ENEA) and ENEA researchers
- 16.30-17.30** **Co-working groups**
ENEA researchers + student groups
- 17.30-20.00** **Visit and social dinner**
- 20.00-22.00** **Business dinner**

Thursday 4th December

Scenarios, Assessment and Future Perspectives of Bioenergy in the Bioeconomy

- 8.30-9.30** **Co-working groups**
ENEA researchers + student groups
- 9.30-9.45** **Understanding CCS: Science, Systems, and Strategic Choices**
Eng. Stefano Stendardo (SNAM)
- 9.45-10.00** **NEST: what next?**
Prof. Leonardo Tognotti (UniPI)
- 10.00-10.15** **Conversion of waste and residual biomass: opportunities in the Italian scenario (to be confirmed)**
Prof. Piero Salatino (UniNA)
- 10.15-10.30** **The value of regeneration: strategies for efficient use of resources**
Dr. Francesca Scannone (FEEM)
- 10.30-11.00** **Coffee Break**
- 12.00-13.00** **Le Comunità Energetiche Rinnovabili. Definizioni, tecnologie, prospettive, barriere**
Prof. Antonio D'Angola (UniBAS)
- 11.00-12.30** **Projections and scenarios for biomass, biofuels, bioenergy, biorefineries and the bioeconomy: Round table discussion**
Eng. Stefano Stendardo (SNAM), Prof. Leonardo Tognotti (UniPI), Prof. Piero Salatino (UniNA), Dr. Francesca Scannone (FEEM), Dr. Isabella De Bari (ENEA)
- 12.30-13.30** **Co-working group presentations and final greetings**
Student Working Groups
- 13.30-14.00** **Takeaway lunch**