

Mastering nelle tecnologie di produzione di combustibili rinnovabili

La Bioenergy School intende fornire agli studenti di dottorato ed assegnisti di ricerca strumenti di conoscenza, analisi e valutazione riguardo la valorizzazione di risorse di carbonio rinnovabile (biomasse e frazioni biogeniche dei rifiuti, CO₂ da cattura) per la produzione integrata e sostenibile di bioenergia (nelle sue varie forme), combustibili (bio ed e-fuel) e composti chimici ad elevato valore aggiunto.

Sessioni interattive e lavori di gruppo

Al termine di ogni sessione sono previste visite agli impianti e laboratori presenti nel Centro Ricerche ENEA TRISAIA tra cui il pretrattamento di steam explosion, gli impianti termochimici (gassificatori e pirolizzatori), e la piattaforma biolubrificanti.

Sono previste sessioni di didattica partecipativa e apprendimento attivo attraverso lavori di gruppo e presentazione di assessment redatti dagli uditori durante le giornate formative (es. economic/environmental analyses, case studies).

DOVE

Infrastrutture di Ricerca ENEA TRISAIA della Divisione Bioenergia, Bioraffineria e Chimica Verde - Centro Ricerche ENEA Trisaia SS 106, km 419,5 Rotondella (MT)

QUANDO

28-31 ottobre 2024



BIOENERGY SCHOOL

Organizzata da:



Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile



NETWORK FOR ENERGY SUSTAINABLE TRANSITION



- ✓ Costo di partecipazione: 460 € (iva INCLUSA) comprende coffee break, pranzi, cena sociale e transfer per il centro ricerche ENEA TRISAIA da Nova Siri mattina e sera.

Iscrizioni aperte fino al 7 Ottobre 2024

<https://www.eventi.enea.it/tutti-gli-eventi-enea/save-the-date-1-bioenergy-school.html>



BIOENERGY SCHOOL

BIOENERGY SCHOOL - 28-31 OCTOBER 2024 - C.R. ENEA TRISAIA

FINAL PROGRAM

DAY	TIME SLOT	TITLE	SPEAKER
Monday 28th October - Lignocellulosic Biorefineries and Biomethane	09:00 - 09:10	Welcome and Introduction to the 1st Bioenergy School	Leonardo Tognotti (UNIPI) - Isabella De Bari (ENEA)
	09:10 - 09:50	Conversion of biomass to liquid fuels and value added products: research and industrial development	Isabella De Bari (ENEA)
	09:50 - 10:40	Bioalcohols production from biogas and syngas fermentation	Antonio Marzocchella (UNINA)
	10:40 - 11:10	Coffee break	
	11:10 - 11:50	Innovative biotechnologies for the development of anaerobic digestion based biorefinery	Antonella Marone (ENEA)
	11:50 - 12:30	Integration Biogas and agriculture: the role of digestate to promote a C-Farming model	Guido Bezzi (CIB)
	12:30 - 13:10	From biogas to biomethane; technologies and examples of good practices	Vito Pignatelli (Itabia)
	13:10 - 13:30	Institutional and representative greetings	Giulia Monteleone (ENEA) - Michela Chimienti (NEST)
	13:30 - 14:30	Lunch break	
	14:30 - 16:30	Laboratories and pilot-scale research facilities for biomass pre-treatment, applied biotechnologies, analysis and process control	Egidio Viola and researchers of ENEA Trisaia
16:30 - 18:30	Feasibility Analysis of Biorefineries and co-working	Aristide Giuliano (ENEA)	
Tuesday 29th October - Production of bioenergy and biofuels through thermochemical processes	09:00 - 09:40	Conversion of waste and residual biomass through thermochemical processes: opportunities in the Italian scenario	Piero Salatino (UNINA)
	09:40 - 10:20	Conversion of waste and residual biomass through gasification and CHP applications	Andrea Di Carlo (UNIVAQ)
	10:20 - 11:00	Conversion of biomass and renewable carbon through pyrolysis to maximize bioliquid yield	Leonardo Tognotti (UNIPI)
	11:00 - 11:30	Coffee break	
	11:30 - 12:10	Hydrothermal liquefaction for liquid biofuels: from lab to scale-up".	Edoardo Miliotti (RECORD)
	12:10 - 12:50	Biofuels from innovative flexible gasification and synthesis processes	Giulio Guandalini (POLIMI)
	12:50 - 13:30	Industrial development of thermochemical technologies for the production of advanced biofuels	Alessia Borgogna (NEXTCHEM)
	13:30 - 14:30	Pausa lunch	
	14:30 - 15:45	Fixed bed gasifiers, gas upgrading and separation through membranes	Nadia Cerone and researchers of ENEA Trisaia
	15:45 - 17:00	Fluidized bed gasifiers, gas upgrading and synthesis of Bio-SNG	Donatella Barisano and researchers of ENEA Trisaia
17:00 - 18:30	Feasibility Analysis of Biorefineries and co-working		
Wednesday 30th October - Conversion of CO2 into e-fuel	09:00 - 10:00	Power-to-Gas Processes for the Valorization of CO2 to Gaseous Fuels: The Sabatier Reaction	Luca Lietti (POLIMI)
	10:00 - 11:00	Green Hydrogen and E-Fuels: Energy Conversions and Uses	Loredana Magistri (UNIGE)
	11:00 - 11:30	Coffee break	
	11:30 - 12:30	e-fuels ed e-chemicals: produzione e prospettive	Carlo Giorgio Visconti (POLIMI)
	12:30 - 13:30	CO2 hydrogenation to methanol and key derivatives: catalysis and applications	Samir Bensaid (POLITO)
	13:30 - 14:30	Pausa lunch	
	14:30 - 16:30	Bio-lubricant production plant and pyrolysis plants	Pietro Garzone and researchers of ENEA Trisaia
	16:30 - 18:30	Feasibility Analysis of Biorefineries and co-working	
20:00 - 22:00	Business dinner		
Thursday 31st October - Regulations, policies and integration of bio-based processes with other renewable sources	09:00 - 09:40	GasDS Suite: a generalized kinetic-based multi-purpose multi-scale simulator for thermal treatment of solid fuels	Flavio Manenti (POLIMI)
	09:40 - 10:40	Opportunities arising from the integration of renewable carbon conversion processes with other renewable energy sources such as electricity, heat and green hydrogen	Domenico Borello (UNIROMA1)
	10:40 - 11:10	Coffee break	
	11:10 - 12:00	Requirements for biofuels sustainability within EU	Marco Buffi (JRC)
	12:00 - 13:00	European regulations and policy trends regarding the use of renewable carbon (biomass, waste, CO2) for fuel production	David Chiamonti (POLITO)
	13:00 - 13:30	Final remarks of co-working activities	
	13:30 - 14:00	Conference closing	Giulia Monteleone (ENEA) - Leonardo Tognotti (UNIPI) - Isabella De Bari (ENEA)
	14:00 - 15:00	Lunch	



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