

Ecomondo 2009

October 29, 2009

BioBased Economy &
Bioraffinerie

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in collaborazione con:

Lagambiente, Associazione Chimica Verde Bio-net, ENEA

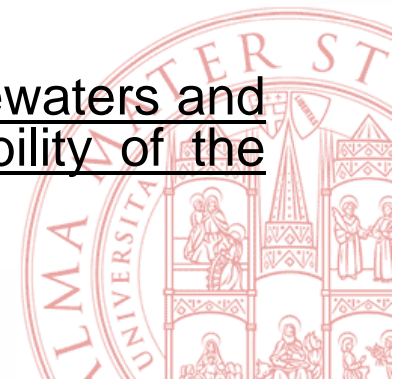
Bioeconomy and integrated Biorefinery for a more sustainable and competitive industrial growth

The bioeconomy, i.e., a set of economic activities relating to the invention, development, production and use of biological products and processes, could make major socioeconomic contributions in well established and developing countries. These benefits are expected to improve health outcomes, boost the productivity of agriculture and industrial processes, and enhance environmental sustainability.

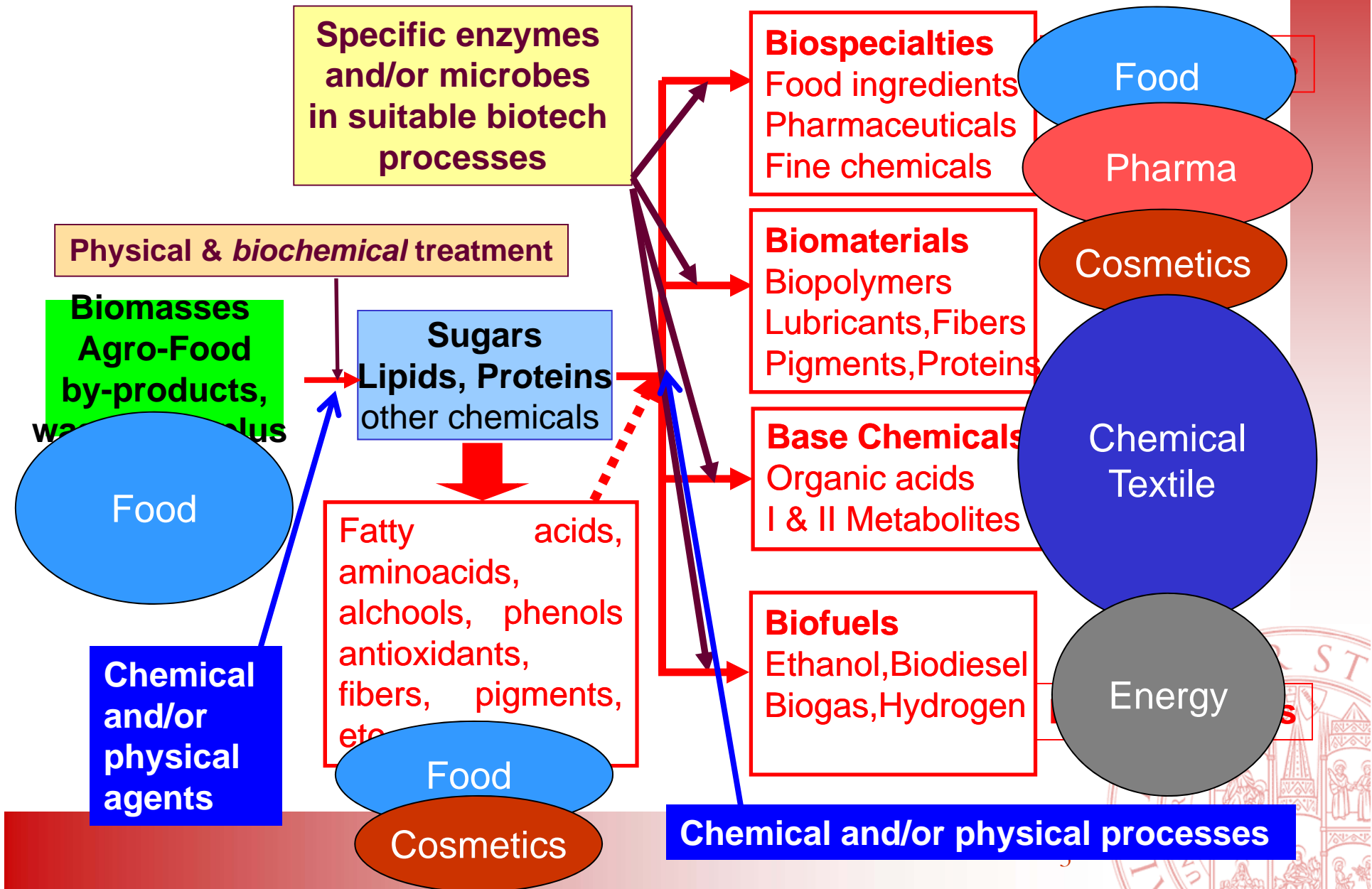
The integrated production of chemicals, biomaterials and biofuels from biomasses and agro- and food-industry by-products, waste, wastewaters and surplus, represent a key opportunity for improving the overall environmental sustainability and competitiveness of the current large industry and biofuels production sector.

Indeed, this approach (biorefinery concept) can permit to reduce the dependence of the current industry from the polluting and expensive petroleum and to produce a number of new and biobased products with new competitiveness and market opportunities and environmental sustainability.

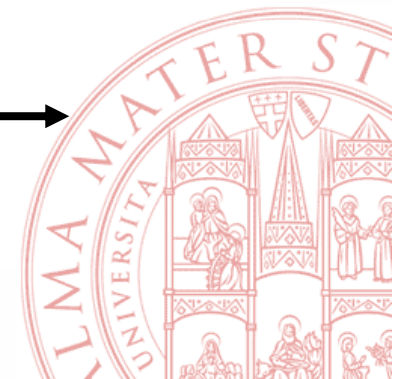
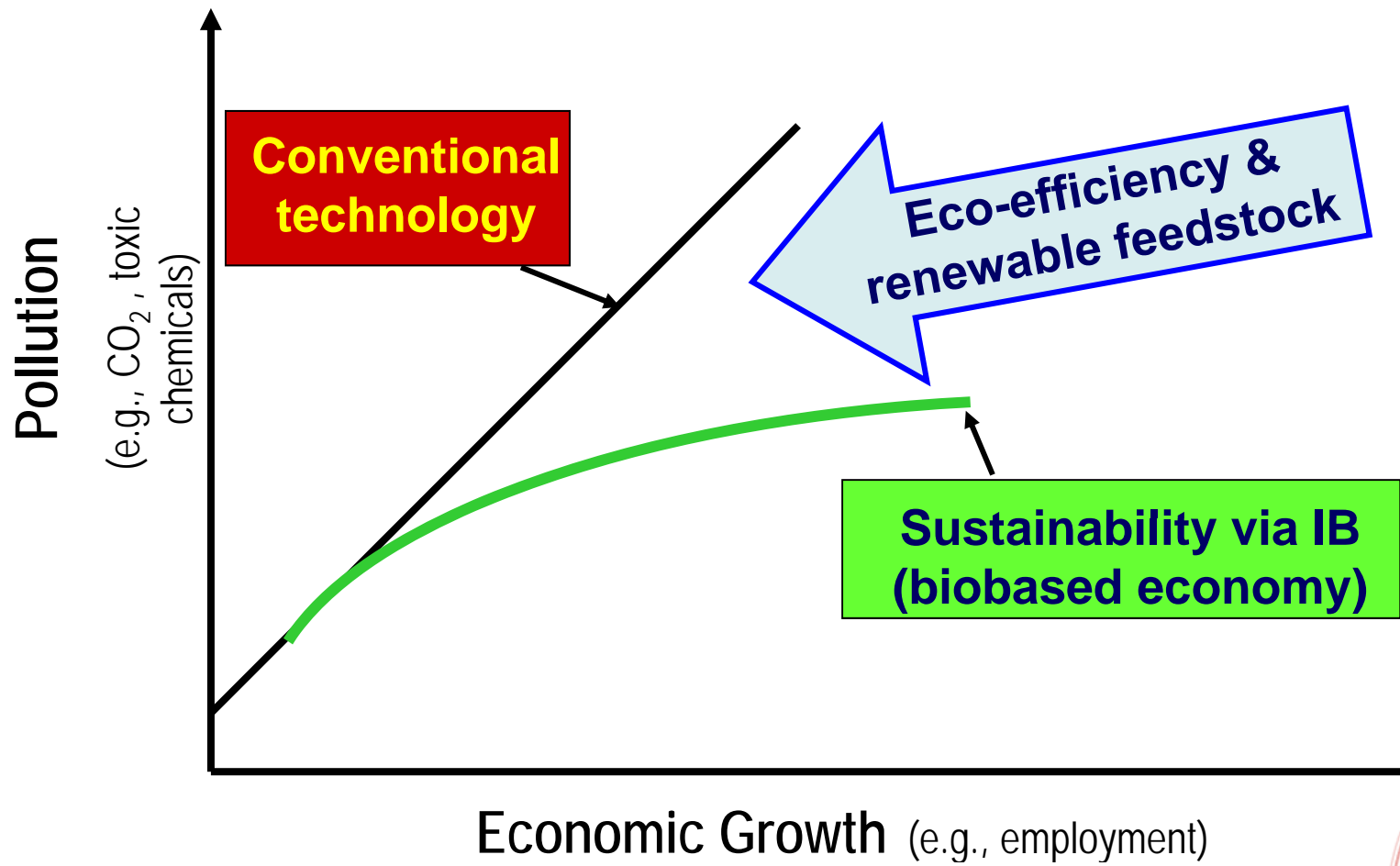
Further, the use agrofood-industry by-products, wastes, wastewaters and surplus as feedstocks contributes to increase the sustainability of the food industry and to reduce conflicts with the food sector.



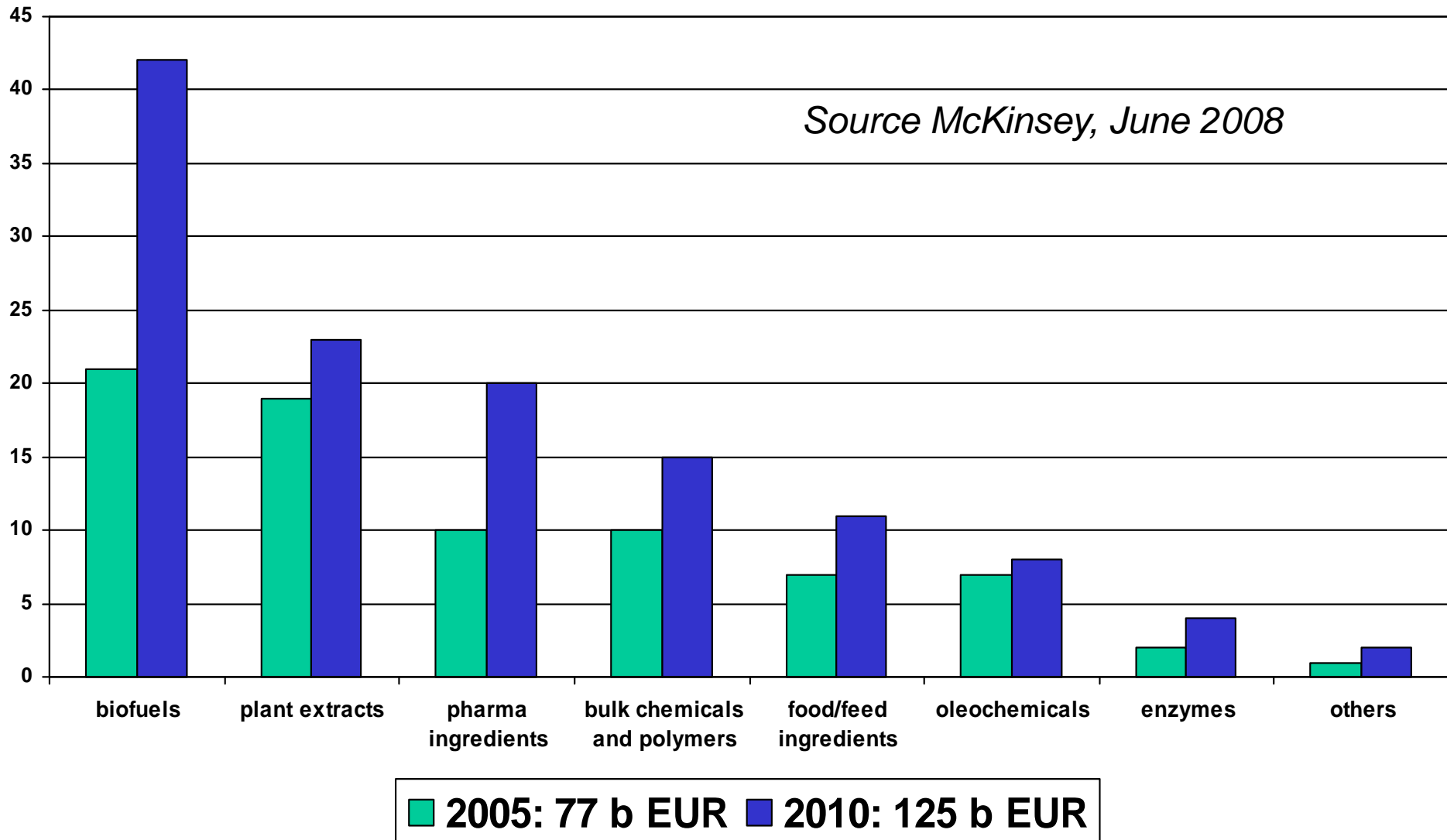
Biomasses as feed-stocks: the biorefinery concept



Biomasses as feed-stocks: environmental benefits

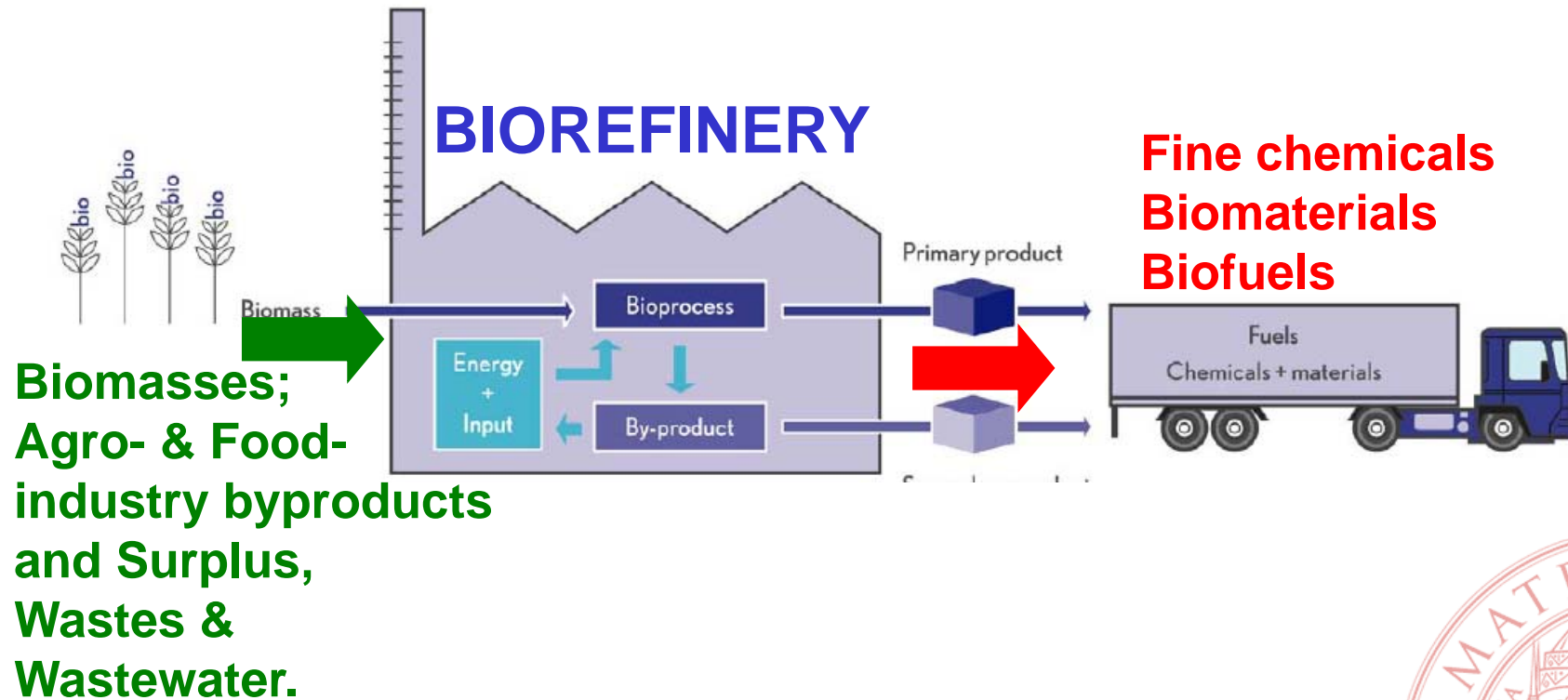


Biomasses as feed-stocks: economical and market benefits



Integrated Valorisation of Biomasses: additional advantages on for the environment and the rural economy

Towards a bio-based society: an integrated, multipurpose biorefinery



Presentazioni orali (1) (*Sala Tiglio unificata Pad A6*)

Plenary

10.00 *Biobased economy and how to implement it: the case of North-Rhine Westphalia (Germany)*, Christian Patermann - Advisor to the State Government of North-Rhine Westphalia (NRW), Germany & Former Director EU Commission, DG RTD, Brussels

Innovazione nel settore

10.40 *Nuove specie vegetali per la produzione di energia*, Gianpietro Venturi - Università di Bologna & Biofuels Italia

11.00 *Piante per la produzione di fine chemicals e nutraceutici*, Giovanni Dinelli - Università di Bologna & Italian Plants for the Future

11.20 *Innovazione di processo*

Gabriele Centi - Università di Messina & SusChem Italy



Presentazioni orali (2) (*Sala Tiglio unificata Pad A6*)

Esempi *biobased industries* e di bioraffinerie in Italia

11.40 *I biocarburanti: la visione Europea.*

Alessandra Borella, Francesco Strassoldo – ENI SpA & Biofuels Italia

12.00 *Polimeri da biomasse e sottoprodotti,*

Catia Bastioli, Novamont & SusChem Italy

12.20 *Eteri combustibili da biomasse,*

Water Mirabella - Lyondell-Basell & Biofuels Italia

12.40 *Biodiesel e sostenibilità*

Maria Rosaria di Somma – Assocostieri & Biofuels Italia

13.00 *Etanolo di seconda generazione. M&G e l'Italia all'avanguardia*

tecnologica, Dario Giordano, Mossi & Ghisolfi & SusChem Italy & Biofuels Italia



Presentazioni orali (3) (Sala Tiglio unificata Pad A6)

Ricerca nel settore

13.20 *Bio-hydrogen production from bio-waste: ready for full-scale applications?*, Andrea Schievano¹, Enrico Consonni¹, Alberto Tenca², Roberto Oberti², Fabrizio Adani¹ -¹Dipartimento di Produzione Vegetale & ²Dipartimento di Ingegneria Agraria Università di Milano, Via Celoria 2, 20133, Milano, Italy

13.35 *Valutazione tecnico-economica di diversi sistemi colturali per l'ENERGY FARM*, Giuliana D'Imporzano¹ Giorgio Colombo², Tommaso Maggiore¹, Fulvia Tambone¹, Andrea Schievano¹, Marco Negri¹, Fabrizio Adani¹, ¹DiProve – Università degli Studi di Milano – Via Celoria 2, Milano-Italy; ²Monsanto Agricoltura Italia. Via San Colombano 81/a Lodi -Italy.

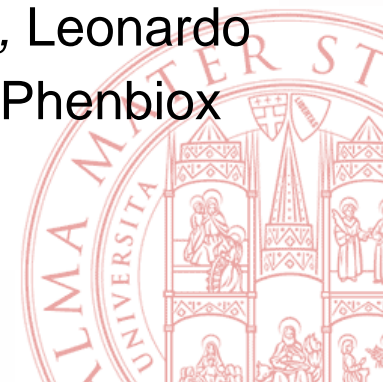


Sessione Poster (*esposizione su pannelli adiacenti la Sala Tiglio*)

P1. *Fattibilità economica nell'utilizzo dei residui agroalimentari per la produzione di energia elettrica*, Claudio Lena, Lucia Pirollo. Facoltà di Economia, Università degli Studi di Cassino

P2. *Green synthesis and characterization of ferulic acid polymers as new matrix for composites*. Luca Forti, Luisa Barbieri, Gerardo Benedetto, Anna Corradi, Maria Rita Cramarossa, Isabella Lancellotti, Paolo Pozzi, Rosa Taurino. University of Modena and Reggio Emilia, Modena, Italy

P3. *Processi di biorefinery: recupero di secondary chemicals building blocks da scarti agroindustriali liquidi (acque di vegetazione delle olive)*, Leonardo Setti e Elena Ansaloni – Università di Bologna, Dario Zanichelli, Phenbiox s.r.l. Bologna



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