

School on
Utilization of Biomass for the Production of Chemicals or Fuels
“The concept of Biorefinery comes into operation”

Open to PhD students, Post Docs, Industry staff

Date: September 18-24, 2011

Location: Hotel Orsa Maggiore, Castro Marina-LE, IT (www.orsamaggiore.it)

Organizing Committee

Prof. Angela Dibenedetto CIRCC-UNIBA, IT, Co-Chair

Prof. Angeliki Lemonidou, CERTH, GR, Co-Chair

Dr. Carlo PASTORE, CIRCC-UNIBA, IT

Dr. Eleni Heracleous, CERTH, GR

Dr. Simona Bennici, UCCS-CNRS, FR

Mrs. Eibhilin Manning, EUBIA

Mrs. Emilie Mercier ALMA, FR

Scientific Committee

Prof. Franck Dumeignil, UCCS-CNRS, FR, Co-Chair

Prof. Michele Aresta, CIRCC, IT, Co-Chair

Dr Jean Luc Dubois, Arkema

Dr Ivan Andersen, HTAS

Dr. Klaus Neumann, Borregaard

Dr. Karsten Hjort, Novozymes

Dr. Ausilio Bauen, Imperial College

Registration

The registration fee for students **will include**: breakfast, half or full board (to be decided by the participant at the moment of the registration) with accommodation in a double-bed room (6 nights), teaching material & information package, CD with the lectures, visit to Lecce and Otranto, Social dinner, transportation from/and to the airport in Brindisi or the train station in Lecce.

See the Registration Forms

Programme of the School

Arrival and Departure:

Arrival: September 18, 2011 until early afternoon

Departure: September 24, 2011 after lunch

Students are due to stay for the entire duration of the School

Organizers are expected to stay for the whole duration of the School.

Teachers are expected to be present three days at the School: one day before and one day after the lecture

Registration, Welcome and Opening Lecture

September 18, 2011

Registration 3.00 pm -6.30 pm

Welcome by the organizers: 6.30-7.15 pm

Prof. Michele Aresta, Co-ordinator of the Training and Dissemination SP, Eurobioref;

Prof. Angeliki Lemonidou, WP Leader and Co-Chair of the Organizing Committee

Prof. Angela Dibenedetto, Co-Chair of the Organizing Committee

Opening Lecture 7.15 pm-8.00 pm

Franck Dumeignil, Project Co-Ordinator: *"The Eurobioref project"*

Welcome cocktail: 8.00 pm-8.30 pm

Dinner: 8.30 pm

Working Programme

Day 1, Monday

09.00-10.15 *Refinery of the future: feedstock, processes, products*
Jean-Luc Dubois, ARKEMA

10.15-11.30 *The terrestrial Biomass: formation and properties (crops and residual biomass)*
Myrsini Christou, CRES

11.30-12.00 Break

12.00-13.15 *Aquatic biomass: production technologies, isolation and treatment*
Angela Dibenedetto, CIRCC

13.30 *Lunch and break*

18.00-20.00 *Oral flash presentation of posters (5 min, 3-4 slides max.)*

20.30 Dinner

21.30-22.30 *Poster session and Informal meeting (wine will be served)*

Day 2, Tuesday

- 09.00-10.15** *Biomass pre-treatment: separation of cellulose, hemicellulose and lignine. Existing technologies and perspectives.*
Anna Raspolli, CIRCC
- 10.15-11.30** *Conversion of cellulose and hemicellulose into platform molecules: chemical routes*
David Serrano, IMDEA-ES
- 11.30-12.00** Break
- 12.00-13.15** *Conversion of cellulose and hemicellulose into platform molecules: biotechnological approach*
Klaus Neumann, Borregard
- 13.30** *Lunch and break*
- 18.00-20.00** *Oral flash presentation of posters (5 min each, max 3-4 slides)*
- 20.30** Dinner
- 21.30-22.30** *Poster session and Informal meeting and questions to teachers (wine will be served)*

Day 3, Wednesday

- 09.00-10.15** *Conversion of lignine: chemical technologies and biotechnologies*
Claudia Crestini, CIRCC
- 10.15-11.30** *Fermentation of C6- and C5-sugars: mature and new biotechnologies*
Philippe Soucaille, METEX
- 11.30-12.00** Break
- 12.00-13.15** *Anaerobic fermentation: biogas from waste. The basic science towards technological applications*
Michele Aresta, CIRCC
- 13.30** *Lunch and break*
- 16.00** *Departure for the visit to Lecce and Otranto.
Dinner will be served nearby Otranto.*

Day 4, Thursday

- 09.00-10.15** *Catalytic conversion of biosourced raw materials: Homogeneous catalysis.*
François Jerome, UNIPoitiers, FR
- 10.15-11.30** *Catalytic conversion of bio-sourced raw materials: Heterogeneous catalysis*
Wolfgang Hoelderich, Aachen
- 11.30-12.00** *Break*
- 12.00-13.15** *Catalytic conversion of oils extracted from seeds and algae: from polyunsaturated long chains to functional molecules*
Matthieu Chatillon, Novance
- 13.30** *Lunch and break*
- 18.00-20.00** *Case study: Biogas and biohydrogen from residual biomass and process water*
Roberto Farina-ENEA
- 20.30** *Dinner*
- 21.30-22.30** *Meet the teacher: informal discussion (wine will be available)*

Day 5, Friday

- 09.00-10.15** *Conversion of biomass to fuels and chemicals via thermochemical processes*
Angelos Lappas, CERTH
- 10.15-11.30** *Biomass gasification: production of Syngas or Heat & Electricity*
Kiriakos Panopoulos, CERTH
- 11.30-12.00** *Break*
- 12.00-13.15** *From Syngas to fuels and chemicals: Chemical and Biotechnological routes*
Carlo Perego, Marco Ricci, ENI
- 13.30** *Lunch and free time*
- 18.00-20.0** *Biopolymers from Biomass*
Catia Bastioli, Novamont
- 20.30** *Social Dinner and Show*

Day 6, Saturday

09.15-11.00 *LCA applied to the energetic, economic and environmental evaluation of the production of fuels from biomass: A case Study*
Ausilio Bauen, Imperial College

11.00-12.15 *Policy aspects of biomass product chains*
TBD

12.15-12.30 *Closing remarks and future activities: A. Lemonidou and M. Aresta*

13.00 *Lunch-Buffer*

14.30. *Departure by bus to Brindisi Airport or Lecce Train Station*

Presentation of Posters is strongly encouraged

Two prizes for the best poster will be presented, one is reserved to PhDs one to Post Docs.