



DIBANET Summer School

13th-16th December 2010

Federal University of Rio de Janeiro

AGENDA

- 13:00 - 13:30 Registration
- 13:30 – 14:00 **Opening and Welcome**
Prof. Luiz Pinguelli Rosa – COPPE’s Director, Federal University of Rio de Janeiro (UFRJ), Brazil
Prof. Michael H. B. Hayes, University of Limerick, Ireland
- 15:45 - 16:00 **Introduction to Biorefinery concept**
Mr. Daniel Hayes, University of Limerick, Ireland
- 15:45 - 16:00 **Introduction to the DIBANET concept**
Prof. Michael H. B. Hayes, University of Limerick, Ireland
- 15:45 - 16:00 **Future importance of residual biomass in the energy matrix**
Mr. Sergio Fabián Sein, YPF, Argentina
- 15:45 - 16:00 **European feedstocks**
Mr. Daniel Hayes, University of Limerick, Ireland
- 15:45 - 16:00 **Latin America feedstocks**
Ms. Magale Rambo, University of Campinas, Brazil
- 15:45 - 16:00 **Sugarcane bagasse & trash as feedstock for biofuels**
Mr. Aparecido Alves, Centre of Sugarcane Technology, Brazil
- 15:45 - 16:00 **Sustainability considerations for biofuel feedstocks**
Ms. Ana Maria Ruz, Fundación Chile, Chile
- 16:00 - 16:15 **Biofuels and biomass in the Midwest**
Mr. Chet Culver, Governor of Iowa, USA
- 16:15 - 16:30 **Chemical Engineering Programme at COPPE**
Prof. Luiz Pinguelli Rosa – COPPE’s Director, UFRJ, Brazil
- 16:30 - 18:30 **Poster session**



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DAY 2: TUESDAY

MORNING

INTRODUCTION TO BIOMASS HYDROLYSIS

- 08.30 – 09:15 **Carbohydrate Chemistry**
Prof. Michael H. B. Hayes, University of Limerick
- 09:15 – 09:30 Break
- 09:30 – 10:15 **Important components of biomass for acid hydrolysis**
Prof. Michael H. B. Hayes, University of Limerick
- 10:15 – 10:45 Coffee break
- 10:45 – 11:30 **Conventional analytical methods for biomass analysis**
Mr. Daniel Hayes, University of Limerick
- 11:30 – 11:40 Break
- 11:40 – 12:15 **Rapid analytical methods for biomass analysis (continues)**
Mr. Daniel Hayes, University of Limerick
- 12:15 – 13:15 Lunch

AFTERNOON

THERMAL PROCESSING

- 13:30 – 14:15 **Introduction to biofuels and candidate fuels**
Prof. Tony V. Bridgwater, Aston University
- 14:15 – 14:30 Break
- 14:30 – 15:15 **Introduction to thermal processing of biomass**
Prof. Tony V. Bridgwater, Aston University
- 15:15 – 15:30 Break
- 15:30 – 16:15 **Introduction to biomass analysis for thermal processing**
Mr. Daniel Nowakowski, Aston University





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DAY 3: WEDNESDAY

MORNING

ACID HYDROLYSIS

- 08.30 – 09:15 **Introduction to acid hydrolysis process**
Dr. Buana Girisuta, University of Limerick
- 09:15 – 09:30 Break
- 09:30 – 10:15 **Pre-treatment of biomass for acid hydrolysis**
Ms. Karla Dussan, University of Limerick
- 10:15 – 10:45 Coffee break
- 10:45 – 11:30 **Kinetics of Acid hydrolysis, derivatives**
Dr. Buana Girisuta, University of Limerick
- 11:30 – 11:40 Break
- 11:40 – 12:15 **Continuous production of levulinic acid**
Dr. Buana Girisuta, University of Limerick
- 12:15 – 13:15 Lunch

AFTERNOON

THERMAL PROCESSING

- 13:30 – 14:15 **Fast Pyrolysis**
Prof. Tony A. V. Bridgwater, Aston University
- 14:15 – 14:30 Break
- 14:30 – 15:15 **Characterisation of pyrolysis products**
Dr. Daniel Nowakowski, Aston University
- 15:15 – 15:30 Break
- 15:30 – 16:15 **Catalysis in thermal conversion processes**
Dr. Eleni F. Iliopoulou, CERTH





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DAY 4: THURSDAY

MORNING

PRODUCTS OF ACID HYDROLYSIS

- 08.30 – 09:15 **Applications of levulinic acid derivatives**
Dr. Buana Girisuta, University of Limerick
- 09:15 – 09:30 Break
- 09:30 – 10:15 **Solid acids and catalysis**
Dr. Angela Rocha, Federal University of Rio de Janeiro
Prof. Graciela Baronetti, University of Buenos Aires
- 10:15 – 10:45 Coffee break
- 10:45 – 11:30 **Upgrading of acid hydrolysis products: Esterification**
Dr. Angela Rocha, Federal University of Rio de Janeiro
- 11:30 – 11:40 Break
- 11:40 – 12:15 **Catalytic pyrolysis**
Dr. Eleni F. Iliopoulou, CERTH
- 12:15 – 13:15 Lunch

AFTERNOON

THERMAL PROCESSING

- 13:30 – 14:15 **Upgrading by catalytic cracking**
Dr. Angelos A. Lappas, CERTH
- 14:15 – 14:30 Break
- 14:30 – 15:15 **Biochar from Pyrolysis**
Prof. Michael H. B.Hayes, University of Limerick
Dr. Etelvino Novotny, EMBRAPA
- 15:15 – 15:30 Break
- 15:30 – 15.45 **Closing remarks**
Prof. Michael H. B.Hayes, University of Limerick
- 16:30 – 21:30 NETWORKING PARTY**

