



RENEWABLE FEEDSTOCKS & GREEN CHEMISTRY FOR INDUSTRIAL COMPETITIVITY

NOVEMBER 12-13, 2007

BARCELONA. SPAIN

WELCOME

We are pleased to announce the 7th Green Chemistry Conference which will be held in Barcelona on November, 12-13, 2007. The Conference is aimed at presenting important results of the international effort for the discovery of environmentally benign chemical products and processes and their industrial application, with special attention to renewable feedstocks and their industrial application.

The uncertain evolution of oil price over the next decade coupled with the increasing availability of large quantities of cheap feedstocks from renewable origin is triggering a wave of interest towards the use of renewable feedstocks for the manufacture of a wide range of chemical substances including solvents, polymers, biolubricants, biofuels, surfactants, dispersants, colorants, explosives, and many chemical intermediates.

Besides this tactical interest, it is clear that, on a strategic ground, attaining the knowledge for efficiently transforming biomass into the existing functional products is of paramount importance. The formidable research challenges implicit in such a strategy are starting to be addressed by a group of researchers by developing the necessary tools needed by the organic chemical industry in its effort to sustain our chemical civilization in the long term. It is also clear that the lifetime for science and technology development for the massive use of renewable sources should be significantly shorter than the time to the worst possible scenario: the exhaustion of fossil resources.

The Conference aims to contribute to increase our present level of chemical, biochemical and engineering knowledge required for this purpose which is still immature or even non-existent in certain areas. Equally important is how do we transform research achievements into commercial realities. In this regard, innovation policies linking science with industrial application will be critical for creating a good ground for new and better performing, less toxic commercial products made attainable from biomaterials.

TOPICS

Biomass sources

Ligno-cellulosic materials have proved their potential as source of industrial production of commodity, or specialty chemicals or materials, through microbial, chemical or combined methods. But improved procedures and new targets are urgently needed. It is amply acknowledged that yields of processes that use plant materials for commodity chemicals or fuels, such as ethanol, are very poor.

Conversion processes: Thermochemical, Chemical, Biotechnological

Development of biorefineries is hampered by the rudimentary state of the scientific and technologic knowledge required for them to become technically and economically competitive. Chemistry, Biotechnology and Chemical Engineering must meet here new challenges.

Chemicals: Bulk chemicals, Specialties, Pharmaceuticals

Conveniently selected renewable biomass materials are very promising in order to attain easier and more convenient and economical ways to better specialty products. These are certainly structurally closer to substances of plant origin than to oil hydrocarbons, especially when chiral structures are implied.

Materials: Biodegradable plastics

New easily biodegradable or recyclable products are widely demanded, especially for plastics.

Health, Safety and Environmental Issues

Global warming caused by the increased atmospheric CO₂ concentration is one of the most serious problems ever met by humanity. Some of the measures which have been considered in order to reduce emissions consist in the sequestration of CO₂ from combustion gases. Could the chemical industry become a significant CO₂ sink? How could CO₂ become an economical source of useful chemicals and materials?

HONOR COMMITTEE

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Prof. Dr. Víctor Martínez Merino

Universidad Pública de Navarra.

Dr. Joaquín Bigorra

COGNIS. Germany.

Dr. Joan Bladé

Uriach Group. Spain.

Dr. Yves Robin

ISOCHEM. France.

PROGRAM

Monday, November 12

09:00 REGISTRATION AND CHECK IN

10:00 WELCOMING ADDRESS

Josep Castells. Director of IUCT. Spain.

10:15 OPENING REMARKS

Juan José Cerezuela. President of Spanish Platform for Sustainable Chemistry (PETEQUS). Spain.

10:30 GLOBAL PLENARY

John Warner. Director of the Warner Babcock Institute for Green Chemistry. USA.

11:30 Coffee Break

12:00 PANEL I. GREEN CHEMISTRY AND SCIENCE POLICY

Marian Mours, Director of SUSCHEM. Belgium.

Representative. Platform Clean Production.

13:30 Lunch

SESSION I: INDUSTRIAL APPLICATION OF RENEWABLE FEEDSTOCKS (Joan Bladé, Chairman)

15:00 Rainer Höfer. COGNIS. Germany.

15:45 Carles Estévez. IUCT. Spain.

16:30 Jon Kepa Izaguirre. AB Laboratorios. Spain.

17:15 To confirm.

18:00 CLOSING

Tuesday, November 13

SESSION II. RESEARCH ACHIEVEMENTS

10:00 Michele Aresta. University of Bari. Italy.

Stepping Towards Sustainability Innovative Synthetic Methodologies for the Replacement of Phosgene in the Chemical Industry: Comparison of CO and CO₂-based Strategies.

10:45 Jean-Christophe Plaquevent. Université Paul Sabatier. France.

Ionic Liquids/Aminoacid Chemistry Relationships

11:30 Coffee Break.

12 :00 Pierre Gallezot. Institut des Recherches sur la Catalyse. CNRS. France.

Title not yet available

12 :45 M^a Rosa Infante. IIQAB-CSIC. Spain.

Title not yet available

13:30 Lunch

SESSION III: Green Engineering and Toxicology Prediction for Renewable Materials.

15:00 Alexei Lapkin. University of Bath. UK.

Title not yet available

15:45 Jorge Gálvez. University of Valencia. Spain.

Prediction of blood:air partition coefficients using molecular topological descriptors

16:30 PANEL II. BIOFUELS: PAST, PRESENT AND FUTURE

Juan José Cerezuela. President of Spanish Platform for Sustainable Chemistry (PETEQUS). Spain.

Eduardo Vidal. ENERGEA. Austria.

Abengoa Representative. Spain.

17:30 CLOSING

CALL FOR POSTERS

The Organising Committee encourages you to present an abstract in English (maximum 3 pages A4) for poster presentation.

All contributed abstracts must be submitted electronically using to the following e-mail address: [**green-chem@iuct.net**](mailto:green-chem@iuct.net)

The deadline for submission of abstracts is **October 19, 2007.**

VENUE AND DATES

Auditori del Parc Científic de Barcelona

Address:

Parc Científic de Barcelona
Baldiri Reixac, 4-6
08028 BARCELONA

ACCOMMODATION

Participants are responsible for making their own hotel reservations. See the link below for searching hotels in Barcelona.

www.barcelonahotels.es

Alternatively you may wish to stay at Residència d'Investigadors, a university residence that provides lodging for professors and researchers during their stay in Barcelona.

www.residencia-investigadors.es
investigadors@resa.es

REGISTRATION & FEES

You will find the on-line registration form at www.iuct.net. Please, fill out the registration form and send it to green-chem@iuct.net.

REGISTRATION FEES:	Before October, 12 th	After October, 12 th
Regular	395 Euro	475 Euro
RedQS Members	275 Euro	330 Euro
Students	225 Euro	270 Euro

CONTACT ADDRESS

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