

Biomass derived pentoses: from biotechnology to fine chemistry

14-16 November 2010 - Reims, France

CALL FOR PAPERS

Oral and Poster sessions will be organised during this event. Authors are requested to send their abstract proposal, **before July 31st, 2010** by email as attachment (WORD file) to:

Mrs Julia GROLERE, jgrolere@pentosescongress.com

Authors are requested to use the template which can be downloaded on:

www.pentosescongress.com

The Authors will receive notification before September 15th, 2010.

Registration will be mandatory to present communication(s).

A special issue of the international journal Process Biochemistry (<http://ees.elsevier.com/prbi/>) will gather together a selection of the best communications presented during the conference.

The guest editor for this issue will be Dr Michael O'Donohue.

Manuscripts will be selected by the Scientific Committee and proposed for submission to the journal.

Registration fees

Industry	600 €	(VAT 19.6 % included)
Academic, Adebiotech / FFC / SFGP Member	400 €	(VAT 19.6 % included)
Student	300 €	(VAT 19.6 % included)

Registrations will only be effective on receipt of the registration fees, or an order form.

Registration fees include admission to all conference sessions and poster presentations, book of abstracts, detailed program, list of participants, lunches and coffee-breaks.

Venue

Best Western Hôtel de la Paix - 9 rue Buirette - 51100 REIMS, France

Cancellation

In order to be entitled to a 50% refund on registration fees, all cancellation requests must be received by registered letter on or by **October 15, 2010**.

Contact

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Objectives

The term biorefining embraces a wide range of processes that are designed to transform biomass into a variety of products, including fuels, chemicals and materials. The development of the technologies that will underpin future biorefining is a key aspect of the current drive towards a sustainable biobased economy. These technologies will combine the best of chemistry and biotechnology in order to achieve the optimal use of biomass.

So far, many key developments in lignocellulosic biorefining technologies have focused on the use of cellulose and glucose, while smart valorization routes for pentose-rich hemicelluloses and lignins are relatively scarce. Nevertheless, regarding pentose sugars, the first edition of Biomass-derived pentoses underlined the growing awareness of the importance of these biomass components and revealed the first glimpses of emerging technologies. The aim of the second edition of biomass-derived pentoses is to provide an updated status report on pentose-orientated R&D and present the future industrial prospects in this area.

Convinced that the second edition of biomass-derived pentoses will be as stimulating and multidisciplinary as the first one, the organizers invite R&D and industrial players from Chemistry and Biotechnology sectors to join us and help to shape future biorefining processes.

Scientific Committee

President: Michael O'DONOHUE – INRA, Toulouse

Sandrine BOUQUILLON – CNRS – Reims Champagne-Ardenne University

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Preliminary Program

SUNDAY 14 NOVEMBER 2010

14:00 ▪ Opening – **Dominique Dutartre** (ARD and Champagne Céréales, France)

Session 1: Biosynthesis and modification in planta of arabinoxylans.

Topics in this session will focus on advances in fundamental knowledge and work on modifying plant cells using genetic engineering technology.

Speaker: William York (University of Georgia, USA)

MONDAY 15 NOVEMBER 2010

Session 2: Technologies for biomass fractionation and separation processes.

This session will focus on fractionation technologies and the downstream separation of biomass components.

Speakers: Charles Wyman (University of California Riverside, USA), **Michel Delmas** (CIMV and University of Toulouse, France), **Peter Axegard** (Innventia AB, Sweden), **Run-Cang Sun** (Institute of Biomass Chemistry and Technology, China)

Session 3: Chemical routes for the transformation of biomass-derived pentoses into products.

This session will treat all aspects including heterogeneous catalysis and thermochemical processes. The chemical modification of xylans is also included.

Speaker: Ana de Sousa Dias (Avantium BV, The Netherlands)

TUESDAY 16 NOVEMBER 2010

Session 4: Biotechnological transformation of biomass-derived pentoses into products.

Topics in this session will include the design and use of biocatalysts (microorganisms or enzymes) for the biotransformation of pentoses.

Speakers: Marie-France Gorwa-Grauslund (Department of Applied Microbiology, Sweden), **Lonnie Ingram** (University of Florida, USA)

Session 5: Industrial applications for pentoses: update and future prospects.

This session will review some current uses of biomass-derived pentoses and will forward to future opportunities.

Speaker: Hans Hoyndonckx (TransFurans Chemicals, Belgium)

Presentation of the Bazancourt biorefinery complex.

17:00 Conclusion

WEDNESDAY 17 NOVEMBER 2010

Morning: Visit of the Bazancourt biorefinery complex.