



Enzymatic Processing and Modification - Current and Future Trends

Tuesday 21 - Wednesday 22 June 2011
Het Pand, University of Ghent, Belgium

Organised by SCI's Lipids Group and Ghent University



The conference will provide a detailed review of the opportunities now available, including a review of Life Cycle Analysis when using enzymatic processing.

The use of enzymes to modify edible oils has grown in the last twenty-five years from being an alternative to the chemical method of degumming oils such as soyabean oil, to becoming a highly versatile process, used for a variety of structure-modifying processes.

The lipases have since become more widely used tools in the processing of various lipids, effective in processes such as interesterification as well as the production of diacylglycerols. The production of structured lipids as well as other triacylglycerols formed with the aid of enzymes provides yet more evidence of their versatility, and such examples will be discussed in this conference by scientists and technologists who have been directly involved in their development. Most recently the use of enzymes in the production of bio-fuels has been signalled.

Posters

There are a limited number of poster displays available. Please send a one A4 page abstract to Jacqui Maguire E: jacqui.maguire@soci.org by **21 April 2011**.

The University of Ghent is an ideal venue for both the conference and exhibition. All refreshments, lunches, the exhibition and posters will be situated in a single area, ensuring excellent access to delegates throughout the meeting. There are also other opportunities for sponsorship. Please contact jacqui.maguire@soci.org for further information and costs.

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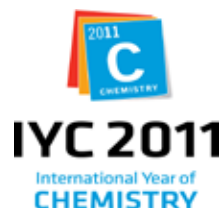
Tuesday 21 June

- 10:30** Registration and refreshments
- 11:00** **Welcome and introduction**
- 11:05** **Welcome to Ghent University**
Prof Koen Dewettinck, University of Ghent, Belgium
- 11:15** **Enzymatic processing: past, present, future**
Mr Hans Christian Holm, Novozymes, Denmark
- 11:45** **Enzymatic degumming for physical refining of vegetable oils**
Mr Chris L G Dayton, Bunge Limited, USA
- 12:10** **Designing novel hardstocks by enzymatic interesterification**
Dr Véronique Gibon, Desmet Ballestra R&D Center, Belgium
- 12:35** Discussion
- 12:50** Lunch and poster viewing
- 13:50** **New applications for enzymes in oil processing**
Dr David Cowan, Novozymes UK Ltd, UK
- 14:15** **Ionic liquid-based nanoscale reactor: a new concept for biocatalysis**
Dr Xuebing Xu, Aarhus University, Denmark
- 14:40** **Potential of combined enzymatic interesterification and fractionation of palm oil and its fractions**
Prof Koen Dewettink, University of Ghent, Belgium
- 15:05** Refreshments and poster viewing
- 15:35** **The use of immobilized lipases for the production of structured lipids: from lab-scale to industrial scale**
Mr Krish Bhagga, Lodders Croklaan, The Netherlands
- 16:00** **Processing aspects of enzymatic rearrangement**
Dr Rob Diks, Unilever R&D Vlaardingen, The Netherlands
- 16:25** **Composition and properties of high and mid-DAG oils from palm oil products**
Dr Siew Wai Lin, MPOB, Malaysia
- 16:50** Discussion
- 17:00** Close
- 19:00** Conference dinner

Wednesday 22 June

- 08:55** Welcome and introduction
- 09:00** **Keynote speaker: Trends in enzyme based modification of lipids, fats and oils**
Prof Dr Uwe Bornscheuer, Greifswald University, Germany
- 09:40** **A basket of new oil compositions from palm oil products via enzymatic process**
Dr Nuzul Amri Ibrahim, MPOB, Malaysia
- 10:05** **Properties and applications of enzymatically modified cocoa butter**
Dr Nathalie De Clercq, University of Ghent, Belgium
- 10:30** Refreshments and poster viewing
- 11:00** **Enzymatic methods for EPA/DHA concentrate production**
Dr Inge Bruheim, Emerald Fisheries AS, Norway
- 11:25** **Life cycle comparison of enzymatic and chemical interesterification**
Dr Gerrit van Duijn, Unilever R&D Vlaardingen, The Netherlands
- 11:50** **Enzyme processing, a speculative look into the future**
Dr Albert J Dijkstra, Scientific consultant, France
- 12:30** Discussion
- 12:40** Summing up and final comments
- 12:50** Lunch and close

Dr David Cowan, Novozymes
Mr Wolf Hamm, SCI Lipids Group
Dr Parkash Kochhar, SPK Consultancy
Mr Kevin W Smith, Fat Science Consulting Ltd
Prof Koen Dewettinck, University of Ghent
Dr Nathalie De Clercq, University of Ghent



Venue

Ghent (in Dutch : Gent) is the fourth largest city of Belgium. The city centre alone is a showcase of medieval Flemish wealth and commercial success. Ghent has an important harbour, thanks to the canal Ghent-Terneuzen and is also the flower city of Belgium.

“Het Pand” where the conference will be held is an old Dominican monastery located in the heart of the city on the banks of the River Leie. In 1963, Ghent University bought the monastery and decided to arrange “Het Pand” as the cultural centre of the University, which has been in operation since 1991.

Travel

Ghent is easy to reach by rail or road from mainland Europe and by air if travelling from the UK.

By Air

Fly into Brussels airport then travel by train to Ghent. The Airport City Express leaves from within the airport building (2nd floor) and takes you to one of the main stations in Brussels, where you can take one of the many intercity trains (IC) to the Ghent-Sint-Pieters station, Ghent’s main railway station. For UK participants, British Airways operate flights from London to Brussels.

By Train

Travel to the Ghent-Sint-Pieters station. Take tram number 1 (every 6 minutes), alight at the Korenmarkt. For UK participants, Eurostar operate the return trip to Ghent from St Pancras.

By Bus

Take a bus/coach to Ghent Zuid bus station. Then take the local bus (Either 16, 17, 18 or 19). These buses operate every 15 minutes. Alight at Korenmarkt.

By Car

Follow parking route signs to parking P7, Sint-Michiels. The car park is located 50 metres from Het Pand. Follow the car park exit sign Onderbergen and park in the Wilderoosstraat, 50 metres away from Het Pand.

Please note: travel information is correct at the time of going to press. It is advisable to check your arrangements before travelling.

Hotels

As there are only a limited number of rooms on hold, early booking is strongly recommended.

We have negotiated rates and reserved a number of rooms at several 3 and 4 star hotels in Ghent. To make a booking, please contact the booking agency directly using the details below.

Agency contact details

You will find a link to the hotels on the event webpage. Alternatively, please use the following contact details:
Hotelworld, T: 0844 445 7270,
E: reservations@hotelworldplus.com

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I wish to present a poster

(I have sent a one A4 page abstract to jacqui.maguire@soci.org)

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