



Compositional Analysis of Lipids

Thursday 20 - Friday 21 June 2013

Het Pand, Ghent, Belgium

Organised by SCI's Lipids Group in Collaboration with
Ghent University and EFL Physical Properties Division



Thursday 20 June

- 10:30** Registration and refreshments
- 11:15** Welcome and introduction
- 11:20** **Welcome to Ghent University and introduction to the importance of analysis**
Prof Koen Dewettinck, Ghent University, Belgium

Session 1: Triglyceride and fatty acid analysis

- 11:30** **Dr Julius Lewkowitsch award lecture: Three and four mass spectrometers in parallel for lipid analysis – how many instruments are enough?**
Dr Craig Byrdwell, United States Department of Agriculture, USA
- 12:15** **Development of an offline bi-dimensional HPLC method for analysis of stereospecific triacylglycerols**
Ms Sheida Kadivar, Ghent University, Belgium
- 12:45** Lunch, posters and exhibition
- 13:45** **Developments in the analysis of fatty acids**
TBC
- 14:15** Poster presentations
- 14:45** **Exhibition TBC**
Exhibition speakers TBC
- 15:05** Refreshments, posters and exhibition

Session 2: Spectroscopy methods for characterising lipids

- 15:35** **NMR characterisation of lipids**
Dr Bernd Diehl, Spectral Services, Germany
- 16:05** **Applications of FT-NIR in the edible oil industry**
Mrs Dagmar Behmer, Bruker Optik, Germany
- 16:35** **Standardisation of analytical methods**
TBC
- 17:05** Close of day 1
- 19:00** Conference dinner

Sponsors



Friday 21 June

09:00 Welcome to day 2

Session 3: Multi dimensional methods / Lipidomics

09:05 **Innovative chromatographic strategies for qualitative and quantitative lipid analysis**

Prof Frederic Lynen and Prof Pat Sandra, Ghent University, Belgium

09:50 **Novel comprehensive chromatographic techniques for detailed analysis of the minor and major components of edible oils and fats**

Prof Hans-Gerd Janssen, Unilever, Netherlands

10:20 **Mediator lipidomics: dissecting the role of PUFA mediators**

Prof Anna Nicolaou, University of Bradford, UK

10:50 Refreshments, posters and exhibition

Session 4: Analysis for authenticity and origin / Contaminants of oils and fats

11:20 **Oils with integrity: authentication challenges**

Prof Saskia van Ruth, Wageningen University, Netherlands

11:50 **Analysis of olive oil quality, authenticity and origin**

Prof Ramon Aparicio, CSIC, Spain

12:20 **Recent developments in the analysis of MCPD esters and glycidyl esters in edible oils and fats**

Dr Jan Kuhlmann, SGS Hamburg, Germany

12:50 **Contaminants in oils and fats: analysis and regulations**

Dr Florence Lacoste, ITERG, France

13:20 Summing up and final comments

13:30 Lunch

14:30 Tour of Ghent University Department of Food Technology or Ghent city centre TBC

Organisers

Kevin Smith, Fat Science Consulting Ltd

Robert Griffiths, RSSL

Gary Sassano, Unilever

Koen Dewettinck, University of Ghent

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 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.

Accommodation

We have negotiated rates and reserved a number of rooms at several hotels in Ghent. To make a booking, please contact the hotels directly. As there are only a limited number of rooms on hold, **early booking is strongly recommended**. You will find links to the hotels on the event webpage.

Collaborators



This event organised by SCI's Lipids Group will bring together international experts in the fields of lipids, oils and fats.

This conference will cover the developments in the analysis and characterisation of the major components of lipids, oils and fats, such as fatty acids and triglycerides, and minor components such as sterols, and the advances in the tools used to generate and interpret whole lipid profiles e.g. lipidomics. The recent developments in the detection of contaminants of oils and fats, such as 3-MCPD esters and Glycidyl esters, will also be presented. Internationally recognised experts will present information on the techniques used to analyse components that are of interest to the lipids, oils and fats industry, food manufacturers and producers and researchers in this field.'

Attendees

This event is aimed at anyone working with oils, fats and lipids including processors, manufacturers, food companies and researchers and will be of particular interest to those involved in the analysis of lipids for QC, regulatory, research and investigative / consultancy purposes.

Exhibition and Sponsorship

An exhibition is being planned during the refreshment and lunch breaks in the refreshment area. There will be a limited number of spaces available for companies and related organisations who may wish to exhibit. The exhibition will be held in the refreshments area. For more information, please contact: jacqui.colgate@soci.org

Posters

Posters are invited and these should be in A0 portrait format. Please summarise your poster in about 300 words and send this to conferences@soci.org by 31 May 2013.

The SCI Lewkowitsch Award Lecture

This award commemorates Dr Julius Lewkowitsch, a chemist, entrepreneur and authority in the field of oils and fats and will be presented at this conference.

SCI is a forward-looking multidisciplinary membership organisation connecting industry, government and academia to advance the application of science for the benefit of society.

SCI offers a network of contacts spanning the chemical and chemical-using industries, together with a rolling programme of conferences, events and prestigious awards which help further knowledge and support those involved in the sector, no matter what stage they're at in their careers.

SCI is the publisher of many well respected peer-reviewed journals and industry leader Chemistry & Industry magazine (C&I).

Join SCI today to network with people across the chemical and chemical-using industries and make connections that spark innovation, get careers moving, and sets business ideas rolling. Visit www.soci.org/membership to find out more and join us.

Compositional Analysis of Lipids

20 - 21 June 2013 @ Het Pand, Ghent, Belgium

If you would like to become a member of SCI today, please tick the box below and you can benefit from the SCI discounted member rate on booking this conference.

I would like to become a member of SCI..... Member £90 ☐ Student £25 ☐

Please tick appropriate box below

Booking Rate before 20 May 2013**Booking Rate after 20 May 2013**

SCI/Euro fed Lipid Member.....€325	<input type="checkbox"/> SCI/Euro fed Lipid Member€390 <input type="checkbox"/>
SCI Student €100	<input type="checkbox"/> SCI Student€120 <input type="checkbox"/>
SCI Subsidised Member€150	<input type="checkbox"/> SCI Subsidised Member€180 <input type="checkbox"/>
Non-Member€430	<input type="checkbox"/> Non-Member.....€515 <input type="checkbox"/>

Membership number (if applicable).....

Surname First Name.....

Title Mr/Mrs/Dr/Prof/Other.....Position.....

Organisation

Address

.....

..... Postcode.....

Tel.....

Email

Special requirements: (dietary/access/other)

SignatureDate

There are 3 ways to pay:

1. Online at www.soci.org/events

2. Cheques made payable to 'SCI' should be drawn in GBP and enclosed with form

3. Credit Card. Please debit £..... from my Mastercard/ Visa/ Amex (please circle)

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Card Expiry Date ☐ ☐ / ☐ ☐ Signed.....

Please return completed forms to:

SCI Conference Dept, 14/15 Belgrave Square, London, SW1X 8PS

T: +44 (0) 20 7598 1561; F: +44 (0) 20 7235 7743; E: conferences@soci.org

Cancellations: Received in writing 1 to 3 weeks prior to the meeting will be subject to a 20% administration charge. Refunds cannot be made for cancellations received after this period although substitutions may be made. Should unforeseen circumstances occur, SCI reserves the right to alter the content of the programme and cancel or postpone any of its meetings without notice or, in the case of complete cancellation, liability to enrolled delegates other than return of fees.

Data Protection: The personal information included on this form will be used by SCI only and will not be disclosed to any third parties. Please tick if you do not wish to be sent details of any future similar meetings or other SCI services. ☐

Register online at: www.soci.org/events