

CSL/JIFSAN SYMPOSIUM – YORK – UK

**Novel Applications of
Analytical Methods in
Food Safety**

30 June - 2 July 2004

PROGRAMME



in collaboration with the JRC

**REGISTER YOUR INTEREST BY E-MAIL:-
h.crevald@csl.gov.uk (Helen Crevald)**

Wednesday, 30 June 2004

10:00 – 12:15 **Biosensor Workshop**
(If you are interested in attending this Workshop, which precedes the Symposium, please see separate details)

12:30 – 13:30 Lunch on arrival or following Workshop

13:30 **CSL/JIFSAN SYMPOSIUM** **'Novel Applications of Analytical Methods in Food Safety'**

European and US perspectives on analysis/diagnostics

Session I – Chair: Prof Mike Roberts (CSL)

13:30 Welcome and introduction to CSL (Prof M Roberts – CSL)

13:40 Introduction to JIFSAN (Dr D Lineback – JIFSAN)

13:50 JRC analytical initiatives
Prof E Anklam, JRC

14:00 EFSA perspective on future challenges in food safety
Dr D Liem (European Food Safety Authority)

14:30 Innovative analytical developments stimulated by EU funding in FP5 and FP6
(Speaker to be confirmed)

15:00 *Refreshment Break / Exhibition*

15:30 Overview of FDA/Homeland Securities funded projects on analysis/diagnostics
Dr A Miller (FDA-CFSAN)

16:00 Novel approaches to screening for food contaminants
Dr C Elliott (DARD)

16:30 Novel approaches to food authenticity and traceability
P Brereton (CSL)

17:00 Discussion

Thursday, 1 July 2004 (morning)

Rapid techniques for screening

Session II – Chair: Dr D Lineback

- 09:00 Forensic analysis of environmental and biomedical samples for evidence of chemical and biological warfare agents
Dr R Black (Dstl, Porton Down)
- 09:30 An overview of sniffer technology
Dr J Chambers (CSL)
- 09:50 Anticholinesterase activity for the screening of pesticides in food samples : state of the art and perspectives
Prof D Compagnone (Teramo University, Italy)
- 10:15 Refreshment Break / *Poster Session**
- 11:00 Recent advances in marine biotoxin analysis
Dr R Dickey (FDA – CFSAN)
- 11:30 DNA microdot assays for residues screening
Dr H P Naegeli (University of Zurich)
- 11:50 Rapid diagnostic methods for screening for antibiotics in foods of animal origin
S Stead (CSL)
- 12:10 Discussion
- 12:30 *Buffet lunch / Poster Session**

* If you would like the opportunity to present a poster at the Symposium, please complete the relevant section of the Registration Form

Thursday, 1 July 2004 (afternoon)

Instrumental approaches to food safety

Session III – Chair: Prof Elke Anklam (JRC)

- 13:45 New analytical techniques for new challenges in food safety analysis
Dr S Cram (Agilent, USA)
- 14:15 Identification of Food Allergens by Quadrupole Time of Flight Mass Spectrometry
Dr J Nørgaard (IRMM, Belgium)
- 14.45 Applications of MS techniques in microbial pathogen analysis
Dr S Musser (FDA-CFSAN)
- 15:15 *Refreshment Break / Poster Session**
- 15.45 Potential in GC-TOF in food contaminant analysis
Prof J Hajšlová (ICT, Prague)
- 16.15 Utilising the capabilities of modern LC-MS and GC-MS technologies for the rapid analysis
of pesticides in food
R Fussell (CSL)
- 16.45 Discussion
- 19:00 Symposium Reception at York Castle Reception***

* included in registration fee - tickets available for partners

Friday, 2 July 2004

Instrumental approaches to food safety

Session IV – Chair: Prof John Gilbert (CSL)

- 09:00 Ion trap LC/MS/MS in veterinary drug residue analysis
Dr D Heller (FDA – CVM)
- 09:30 NMR profiling of foods for rapid detection of contaminants
Dr A Charlton (CSL)
- 10:00 Identification of unknown residues by LC - bioassay - QTOF MS/MS
Dr M Nielen (RIKILT, Netherlands)
- 10:30 *Coffee*
- 11:00 Analysis of trace level process-induced contaminants
Dr G Noonan (FDA-CFSAN)
- 11:30 Assessing risks – handling uncertainty in analytical results
Dr M Knowles (Coca-Cola, Belgium)
- 12:00 Discussion and summing-up
- 12:30 End of meeting
- 12:45 Optional visit to Castle Howard (including lunch)**

BACKGROUND

This Symposium is the fifth in an on-going series of joint meetings organised by the Central Science Laboratory (CSL) York, UK, and the Joint Institute for Food Safety and Applied Nutrition (JIFSAN), Maryland, USA, focusing on Food Safety and Nutrition.

Previous meetings covered the following areas:-

2003	<i>Risk Analysis</i>	USA
2002	<i>Rapid Diagnostic Methods in Food Safety</i>	UK
2001	<i>Biotechnology Foods (GMO's)</i>	USA
2000	<i>Risk Assessment in Food Safety</i>	UK

CSL is an Executive Agency of the Department for Environment, Food and Rural Affairs (DEFRA) and was established in 1994 to provide an efficient and competitive range of scientific services to Government, underpinned by allied R&D. The CSL complex at Sand Hutton, York, comprises laboratories with state-of-the-art instrumentation, controlled environment and greenhouse facilities, together with other specialist facilities unique in Europe.

JIFSAN was established between the US Food and Drug Administration and the University of Maryland at College Park in April 1996. JIFSAN has a mission to ensure the safety of the food supply and to advance new concepts of applied human nutrition and animal health through cooperative research and education programmes.

AIMS AND OBJECTIVES

The aim of the meeting will be to explore novel and innovative techniques that have the potential to be used for sampling, screening, identification and detection of chemical residues and contaminants in foods and in biological samples.

SCOPE

This meeting will cover the area of food safety from the perspective not only of adventitious contamination but also intentional contamination of the food chain. The many advances which have been made in instrumental techniques such as LC/MS/MS will be explored, and the potential of biosensors used either as screening or in combination with instrumental techniques will be discussed. This meeting will provide an opportunity not only to learn about recent advances in analytical chemistry but also to look ahead at where the future developments might be anticipated.

VENUE

The Central Science Laboratory is a government agency covering a wide range of disciplines, providing scientific advice and technical support to public and private sector customers to ensure the safe and efficient production of food and the protection of the consumer and the environment.

CSL is 11 km from York and situated 370 km north of London. Air travel is straightforward: arrivals may be at London Heathrow or Stansted, Manchester or Leeds Bradford. The rail journey time from Manchester and London to York is approximately two hours and travel from Leeds Bradford Airport to York takes just over one hour by taxi.

CENTRAL SCIENCE LABORATORY
Sand Hutton, YORK, YO41 1LZ, UK
Telephone: +44 (0)1904 462400

EVENING RECEPTION

Thursday, 1st July 2004 - 7:00 to 10:30 pm

The Evening Reception on Thursday, 1st July, will be an informal occasion and is being held in York's Castle Museum, which is housed in the city's old prison buildings.

Located within the museum is Victorian Kirkgate, the oldest recreated street in any museum in the UK. This a genuine cobbled Victorian Street, where you will be able to peer into the replica shop windows, call at the Victorian police station and visit family living rooms recreated from centuries ago. This is England's most popular museum of everyday life.



Photo courtesy of York Museums Trust

Delegates will have the opportunity to explore the museum and a **buffet meal with wine** will be served during the evening.

Attendance at the Reception is included in the registration fee

Partners of delegates may attend (pre-booking required - £20:00)

VISIT TO CASTLE HOWARD – 2nd JULY 2004 (PM)

Built in 1699, Castle Howard is one of Britain's finest stately homes, located in the beautiful Howardian Hills, fifteen miles north-east of York.



Photo courtesy of Castle Howard Estate Ltd

The house contains magnificent collections of furniture, paintings by Canaletto, Gainsborough, Holbein, Reynolds and Rubens, ancient Greek and Roman statuary and exquisite porcelain and china.

The setting is 1,000 acres of breathtaking parkland, lawns, woodland gardens, lakes, fountains and magnificent rose gardens with collections of old and modern roses.

There will be plenty of time to explore the house and gardens before returning to York centre.

For further details see Castle Howard's web-site at: <http://www.castlehoward.co.uk>

The visit will commence with lunch in the elegant Grecian Hall*

Menu

Warm Poached Salmon in a Chilled Watercress Sauce served with carrots, mange tout and new potatoes

(vegetarian option on request)

Seasonal Strawberries or Raspberries

Coffee/Tea

Pre-booking required - £25.00 per person to include transport, entrance fee and lunch (additional charge for drinks ordered with lunch)

*subject to sufficient interest – if numbers are low alternative arrangements will be made

ACCOMMODATION

CSL has block allocations at the following hotels – bookings should be made through York Tourism Bureau using the Accommodation Booking Form – we regret that we are unable to provide transport to/from CSL if you make your own accommodation arrangements

York Hilton (4*)

Tower Street, YORK, YO1 9WD

GB£138.00 single and double/twin occupancy B&B (full English breakfast)

Car parking: pre-booked/£12 per night (limited availability)

www.hilton.com

Ramada Encore

Micklegate, YORK, YO1 6JG

GB£65/room (single occupancy) B&B -continental breakfast

GB£68/room (double/twin) B&B - continental breakfast

Car parking: pay/display

<http://ramadainternational.com>

Queens Hotel

Queens Staith, Skeldergate, YORK, YO1 6DH

GB£74.95/room (single occupancy) B&B - full English breakfast

GB£82.45/room (double occupancy) B&B - full English breakfast

Car parking: pay/display

<http://www.queenshotel-york.com>

Monkbar Hotel (3*)

1 St Maurice's Road, Monkgate, YORK, YO3 7JA

GB£75.00 (single occupancy) B&B - full English breakfast

GB£95.00 (double occupancy) B&B - full English breakfast

Car parking: free

<http://www.monkbarhotel.co.uk>

Hedley House (2*)

3 Bootham Terrace, York, YO30 7DH

GB£60.00 (single occupancy) B&B - full English breakfast

GB£80.00 (double occupancy) B&B - full English breakfast

Car parking: free

<http://www.hedleyhouse.com>

Note: the transport 'pick-up'/drop-off point will be from the nearby Grange Hotel