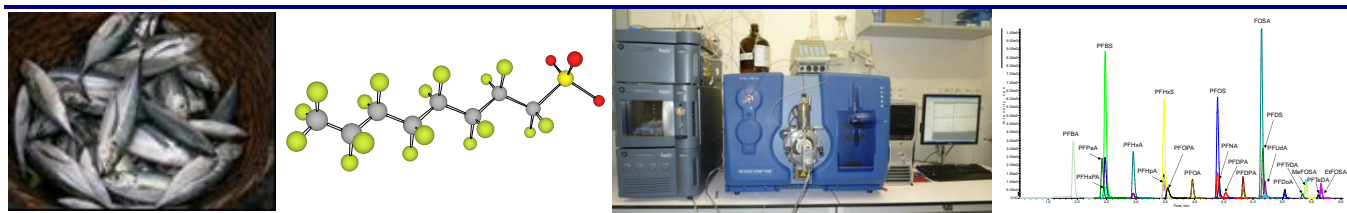


# WORKSHOP on Quantitative trace analysis of Perfluorinated compounds (PFCs) in food and environmental matrices

25-26 May, 2010



## Organised by:



Department of Food Chemistry and Analysis of The Institute  
of Chemical Technology, Prague, Czech Republic



Norwegian Institute for Air Research, Oslo, Norway



State Veterinary Institute Prague, Prague, Czech Republic

## **EmerCon**

This workshop is funded by the Research Support Fund of the National Training Fund within the project EMERCON (Identification and quantification of emerging organic contaminants in the Czech aquatic ecosystem and food market supply. With focus on perfluorinated alkylated compounds (PFC), no. A/CZ0046/2/0026. [www.emercon.cz](http://www.emercon.cz)

## Programme of the workshop

### May 25, 2010 (Day 1)

- 10:00 – 10:10** Welcome
- 10:10 – 12:00** **Part I – presentations**
- OVERVIEW OF EMERCON (EMERGING CONTAMINANTS) PROJECT ACTIVITIES**  
Jana Hajšlová & Monika Tomaniová, *ICT Prague, Czech Republic*
- PFCs INTRODUCTION: PRIORITIES AND STRATEGIES**  
Jana Pulkrabová, *ICT Prague, Czech Republic*
- WHY SHOULD WE DEAL WITH ANALYSES OF PERFLUORINATED COMPOUNDS (PFCs) IN ENVIRONMENTAL AND FOOD MATRICES?**  
Rolland Kallenborn, *NILU, Norway*
- 12:00 – 13:00** *Lunch*
- 13:00 – 14:30** **Part II – presentations**
- ANALYTICAL APPROACHES FOR IONIC PFCs DETERMINATION IN FOOD**  
Jan Poustka & Petra Hrádková, *ICT Prague, Czech Republic*
- TROUBLES AND TROUBLESHOOTING IN LC-MS ANALYSIS OF PFCs**  
Ondřej Lacina, *ICT Prague, Czech Republic*
- IMPLEMENTATION OF GC/MS IN ANALYSIS OF PCFs IN FOOD AND ENVIRONMENTAL MATRICES**  
Kamila Kalachová, *ICT Prague, Czech Republic*
- PILOT STUDY: LEVELS OF IONIC PFCs IN FISH AND SEAFOOD FROM THE CZECH REPUBLIC AND NORWAY**  
Jan Poustka & Petra Hrádková, *ICT Prague, Czech Republic*
- 14:30 – 15:00** *Coffee break*
- 15:00 – 16:00** **Part III – presentations**
- HOW TO DEVELOP FAST AND RELIABLE PROCEDURE FOR DETERMINATION OF PFCs IN VARIOUS FOOD AND ENVIRONMENTAL MATRICES?**  
Sandra Huber, *NILU, Norway*
- IDENTIFICATION OF LACKS AND GAPS IN PFC ANALYSIS IN FOOD**  
Dorte Herzke, *NILU, Norway*
- 16:00 – 16:30** **Discussion**
- 16:30** End of the Day 1 of the workshop
- 19:00** Dinner - New Town Restaurant Brewery

## May 26, 2010 (Day 2)

- 9:00 – 10:00**    **Part IV – presentations**
- **INTERLABORATORY STUDY FOR QA/QC OF PROCEDURE FOR DETERMINATION OF PFCs IN FOOD (PREPARATION OF WELL DEFINED FOOD MATERIAL, CROSS-CHECK OF STANDARDS AND FOOD SAMPLE, ORGANISATION OF THE STUDY)**
- 10:00 – 10:30**    *Coffee break*
- 10:30 – 12:00**    **Part V**
- **TRAINING / DEMONSTRATION / PRACTICAL SESSION** on procedure for determination of PFCs in food
- 12:00 – 13:00**    *Lunch*
- 13:00 – 14:30**    **Part V – continues**
- **TRAINING / DEMONSTRATION / PRACTICAL SESSION** on procedure for determination of PFCs in food
- 14:30 – 15:30**    **Discussion**
- Participation of invited laboratories in interlaboratory study
  - Follow up and perspectives
- 15:30**            End of the Day 2 of the workshop

### AIM of the workshop

This workshop will provide participants knowledge about approaches to the analysis of new emerging contaminants, perfluorinated compounds (PFCs) in food and environmental matrices.

### BACKGROUND

Perfluorinated compounds (PFCs) are emerging food and environmental contaminants that have become of concern due to their possible adverse health effects. They find application in many common products such as waterproof clothes and shoes, packaging materials and fire-fighting foams, from which they can release to the surroundings. Until now, PFCs have been found in a wide range of concentrations, both in abiotic and biotic matrices, including human samples as plasma, blood and breast milk.

To assess health risks associated with dietary intake, in 2008, EFSA (European Food Safety Authority) recommended to EU member states to monitor trends in exposure of two major representatives of this group – PFOS (perfluorooctane sulfonate) and PFOA (perfluorooctanoic acid) in food stuff. These two chemicals are usually used as indicator substances for potential occurrence of other PFCs.

In May 2009, perfluorooctane sulfonate (PFOS) was included at the list of Stockholm convention recommended that further data on levels in food and in humans would be desirable, particularly with respect to monitoring.

In March 2010, COMMISSION RECOMMENDATION (2010/161/EU) on the monitoring of perfluoroalkylated substances in food has been published

Therefore quick, sensitive, reliable and cheap method is required for monitoring not only of PFOS but also for other PFCs that have to be studied more in details.

## WORKSHOP KEY OBJECTIVES

- Overview of all issues related to the PFCs analysis in food and environment, method optimisation and validation, QA/QC
- Methodology developed to introduce procedure for PFCs determination into practice will be provided to workshop participants and practically demonstrated.
- Information about interlaboratory study for PFCs determination in food, possible involvement of workshop participants.
- Discussion of future challenges in PFCs research

## OUTCOME

Following workshop, participants will be able to apply methodology for determination of PFCs in food into practice and participate in interlaboratory study.

## AUDIENCE

Workshop will be aimed at scientists and staff from universities, research institutes, control bodies, governmental and commercial laboratories.

## VENUE

Workshop will be organized at the Department of Food Chemistry and Analysis of the Institute of Chemical Technology, Technicka 3, Prague, Czech Republic.

## LANGUAGE

Workshop will be held in English, no simultaneous translation will be provided.

## REGISTRATION

To register please send contact details at e-mail address [monika.tomaniova@vscht.cz](mailto:monika.tomaniova@vscht.cz)

**Deadline for registration:** 17 May, 2010

**Registration fee:** No fee is charged for this workshop.

## ACCOMMODATION

The participants are responsible for making their own travel/accommodation arrangements. Nevertheless, the organisers recommend following hotels/hostels for accommodation:

*Diplomat Hotel \*\*\*\**

Evropská 15, Prague 6, Czech Republic (<http://www.diplomathotel.cz/en/home/>)

*Masarykova kolej \*\*\**

Thákurova 1, Prague, Czech Republic (<http://www.hostelprague.cz/prague-cheap-hotel.html>) or contact Mrs. Prihodova at [prihodova@suz.cvut.cz](mailto:prihodova@suz.cvut.cz), phone no. +420 233 051 237

*Other links to find out an accommodation in Prague:*

<http://www.pis.cz/en/prague/accommodation>

<http://www.hotelscombined.com/City/Prague.htm>

<http://www.hotelsprague.cz/>

<http://www.guideprague.com/>

*Low cost accommodation (hostels):*

<http://www.czech-inn.com/>

<http://www.miss-sophies.com/>