

Who should participate?

- Laboratory chemists engaged in daily routine work involving speciation analysis
- Laboratory managers who wish to become familiar with state-of-the-art techniques in speciation analysis for environmental issues

Course objectives

The objectives of the course is to review the current state of environmental legislation both in and outside Europe, review the most effective sample preparation methods and train on hyphenated techniques for the determination of the different species of Hg, Sn, Cr, As, Cd and Se in different compartments of the environment such as air, water, soil, sediments and biological tissues. Finally the course will demonstrate the needs and improvements of introducing speciation measurements to optimise risk assessments and improved understanding of the fate, transformation and impacts of elements in the environment.

Participation fees

Participation fees (Euro 1500,-) include lunches, seminar drinks, course notes and a confirmation of participation.

Registration

Please use the registration card of this flyer or register in writing to the address given below, stating:

- date and title of training workshop
- your name, first name, title
- your affiliation and contact details

Your registration should have reached us August 15th 2005 at the latest.

However, since the number of participants is very limited early registration is recommended. Your registration will become binding by the written confirmation of the workshop organiser. For further inquiries and registration at short notice please call: ++49 (0251) 83 366 59 or email or fax to the contact given below.

Conditions of cancellation

When written cancellation of participation is received more than 21 days prior to the workshop date, refund of the course is subject to a handling fee of Euro 75.-. For later cancellations no refund is possible. Substitutes can be nominated at any time for a registered person.

Payments

Are to be made after receipt of the invoice.

Changes

Course program may be subject to changes for technical or organisational reasons. The organisers reserve the right to shift or cancel the Training Course in case of insufficient participation.

Accommodation

A list of hotels will be enclosed to your confirmation of registration by which you can book a hotel. Information is also available on the web site for this course.



EVISA

Training course

Register till
August 15th
2005!

Other EVISA Training Courses:

- 12.-13.09.2005 Arsenic Speciation in Foodstuffs and Water in Relation to Legislative Requirements
- 19.-20.10.2005 Fundamentals of Coupling Techniques in Speciation Analysis
- 21.10.2005 Organic Mass Spectrometry in Speciation Analysis
- 14.-15.11.2005 Selenium Speciation in Foods and Food Supplements
- 24.-25.11.2005 Speciation Analysis and Food Security
- 05.-08.12.2005 Speciation analysis applied to industrial issues
- 23.-24.02.2006 Accuracy and Quality Assurance in Speciation Analysis by IDMS

For a complete seminar program please visit www.speciation.net, your up-to-date information source for speciation analysis!

Speciation analysis applied to environmental issues

September, 12-15, 2005
Pau, France



European Virtual Institute for Speciation Analysis

EVISA office: University of Muenster
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Internet: www.speciation.net

Co-organised by:
EVISA

LCABIE-Université de Pau-CNRS



I register

September, 12 - 15, 2005 in Pau, France.

herewith to the Training Course „Speciation analysis applied to environmental issues“

The registration fee is Euro 1500,- (no tax applicable) I acknowledge the conditions for participation.

Complete this form and register by fax:

+49 251 83 - 360 13

or by mail, using a window envelope.

Title:

First Name:

Family Name:

Company:

Department:

Street:

Area Code:

For:

Fax:

Date, Signature:

European Virtual Institute for Speciation Analysis (EVISA)

University of Muenster

Attn. Dr. Wolfgang Buscher

Corrensstrasse 30

D-48149 Münster, Germany

Course Program

Speciation analysis applied to environmental issues

Course Program

1st day

September, 12, 2005 - 9.00 -17.00 hrs

- Welcome and registration: 9:00-9:30 h
- Introduction to speciation analysis in environmental samples
- Legal regulations - evolutions
- Certified reference materials
- Sample preparation for species Hg, Sn, Se, Cd and Se
- Speciation in air (Hg, Sn, Se, Cd and Se)
- Speciation in water (Hg, Sn, Se, Cd and Se)

2nd day

September, 13, 2005 - 9.00 -17.00 hrs

- Speciation in sediments (Hg, Sn, Se, Cd and Se)
- Speciation in biological tissues (Hg, Sn, Se, Cd and Se)

3rd day

September, 14, 2005 - 9.00 -17.00 hrs

- Hyphenated techniques for speciation analysis using either LC and GC separation methods coupled to AFS or ICP/MS
- Speciated isotopic dilution using GC and HPLC – ICP/MS
- Hands on training using AFS and ICP-MS

4th day

September, 15, 2005 - 9.00 -17.30 hrs

- Hands on training using AFS and ICP-MS
- Application to the fate and impacts of Hg, Sn, Se, Cd, and Se in the environment
- Closure of the workshop: 17:30 h

Course Venue

LCABIE,

Laboratoire de Chimie Bio Inorganique et Environment,
Helioparc, 2, Avenue du President Angot,
F-64053 Pau, France

Course instructors and their field of expertise:

Christophe Peycheran / LCABIE

laser ablation – ICP-MS, GC-ICP-MS, species specific isotope dilution analysis

David Point / LCABIE

ultra-trace metal analysis, environment

David Amouroux / LCABIE

mercury speciation, isotopic dilution, biogeochemistry cycles of metals

Shona McShee / LCABIE

HPLC-ICP-MS, GC-ICP-MS, speciation analysis

Fabienne Seby / LCABIE

HPLC-ICP-MS, speciation analysis, chromium species analysis

Olivier Donard / LCABIE

ultra-trace metal analysis, environment, isotopy, speciation analysis, biogeochemistry cycles of metals, general aspects

Comprehensive course notes are included in the workshop fees.

Contact and further information

EVISA office, University of Muenster

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Dr. Wolfgang Buscher

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