**Venue**

Lecture Hall MC122 and Lab MC026  
(Mülheimer Straße / Lotharstraße)  
University of Duisburg-Essen, Campus Duisburg  
D-47057 Duisburg

**How to get there**

**Arriving by public transport:**
The Duisburg campus can be reached from the main station by using the tram route 901 to the stop "Zoo/Uni" (area M, Mülheimer Straße) or by using the bus routes 923, 924 and 933 to the stop "Universität" (area L, Lotharstraße) and to the stop "Uni-Nord" (area M, Mülheimer Straße).

**Arriving by car:**
A 2/A 3/A 40 to the exit Duisburg-Kaiserberg, turn left into the Carl-Benz-Straße, follow the road to the University parking area (area M and L).

**Site plan**

![Map of University of Duisburg-Essen](image)

for further details see: www.uni-duisburg-essen.de/universitaet/plaene/index_en.shtml

**Scientific symposium**

“Compound-specific Isotope Analysis in Environmental Research”

within the frame of the official opening of the Stable Isotope Laboratory of the University of Duisburg-Essen

15 February 2008

**Contact**

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Compound-specific stable isotope analysis (CSIA) has seen a tremendous growth of applications in the past years. This led to CSIA becoming a routine tool in the areas of doping analysis (standard test for testosterone misuse) and food authenticity testing. Nowadays, there is an increasing interest to utilize CSIA in environmental research. Successful applications to date include (i) the allocation of compound sources on a local, regional and global scale, (ii) the identification and quantification of (bio) transformation reactions on scales ranging from batch experiments to contaminated field sites, and (iii) the characterization of elementary reaction mechanisms that govern product formation. We will continue the successful work of the last years in that area in the new Stable Isotope Laboratory of the University of Duisburg-Essen (UDE).

The UDE Stable Isotope Laboratory was founded in 2007 with the acquisition of two isotope mass spectrometers (MAT 253 and DeltaV) plus necessary peripherals to carry out automated compound-specific isotope analyses (CSIA) after either GC or LC separation. To facilitate qualitative and quantitative analysis of investigated compounds a new GC-MS Trace Ultra+DSQ2 with the same peripherals complements the equipment.

We will celebrate the completion of the lab installation and officially open the UDE Stable Isotope Laboratory with a one-day scientific symposium. Distinguished researchers will highlight state-of-the-art instrumentation and applications and future possibilities of CSIA in environmental research. Of course, there will also be the possibility for a lab tour and discussions at the instruments.

We are pleased to invite you to this event. There is no symposium fee but we ask for early registration since we need to limit the number of participants to 100 max.

Prof. Dr. Torsten Schmidt
Chair of Instrumental Analytical Chemistry (IAC)

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**Program**

09:00  Registration, Coffee, Lab tour
10:15  Welcome, Greetings
10:45  Martin Elsner, GSF Neuherberg:
From degradation pathways to reaction mechanisms: Use of compound-specific isotope analysis in applied and fundamental aspects of environmental chemistry
11:00  Andreas Hilkert, ThermoFisher Bremen:
Quo vadis IRMS?
11:55  Buffet Lunch Break
13:00  Daniel Hunkeler, University of Neuchatel, CH:
Evaluation of the fate of organic compounds in the unsaturated zone using isotope analysis
13:50  David Widory, BRGM, Orleans, F:
Isotope tracking of sources of CO₂ and volatile organic compounds in air
14:05  Coffee break
14:30  Kai-Uwe Hinrichs/Marcus Elvert, University of Bremen:
Isotopic analysis of biogenic low molecular weight organic compounds in natural waters by HPLC-IRMS
15:25  Maik Jochmann, University of Duisburg-Essen:
What is the minimum compound concentration for CSIA?
16:00  Torsten Schmidt, University of Duisburg-Essen:
Future research activities of the stable isotope laboratory
17:00  Official end of the symposium

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Thermo Fisher Scientific
Axel Semrau
PAS Technology

Deadline for registration: 15 January 2008

Please send filled registration form by fax to: +49 (0)201 183 3672

or by mail to:
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