

REGISTRATION FEE

The registration fee includes the conference booklet, conference dinner and refreshments during coffee breaks.

FEES:

Regular	€ 100
Student	€ 50
Accompanying person	€ 50

From Aug 15 until Sep 15, 2015

Regular	€ 150
Student	€ 100
Accompanying person	€ 100

PAYMENT

Payment should be made in EUR by bank transfer indicating the name of the conference delegate.

Bank: Commerzbank

Account holder: incos boté

IBAN: DE61 5504 0022 0235 9651 01

BIC: COBADEFFXXX

ACCOMMODATION

There are a number of hotels of all classes in Aachen and area. Prices range from € 75 to 150/night.

Delegates are invited to use the online hotel reservation services: <http://www.aachen.de/> or <http://www.hrs.de/web3/>

The organisers are happy to help with any reservations.

Nearest hotel to venue:

Hotel ibis Aachen Marschierort

Friedland Strasse 6-8, 52064 Aachen

Phone: (+49)241/47880

Fax: (+49)241/4788110

E-mail: H0967@accor.com



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The conference will be held in the congress centre "Super C", Templergraben 55, RWTH Aachen, 52062 Aachen, Germany

<http://www.rwth-aachen.de/go/id/tld>

Conference President
Dr. Tamara Grummt

Scientific committee

Braunbeck, T. (Univ. of Heidelberg, Germany)

Grummt, T. (Federal Environment Agency, Germany)

Hollert, H. (RWTH Aachen, Germany)

Kramer, M. (RheinEnergie, Germany)

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ANNOUNCEMENT

Effect-related evaluation of anthropogenic trace substances - concepts for genotoxicity, neurotoxicity and endocrine effects

4th INTERNATIONAL SYMPOSIUM

Aachen, Germany
22nd/23rd October 2015

Organiser

Institute for Environmental Research
Department of Environmental Sciences,
RWTH Aachen

under the auspices of

Water Chemistry Society

Division of the German Chemistry Society
Main Committee II:

- Water Ingredients and Water Quality -



SCOPE OF THE SYMPOSIUM

Water is the largest and most important natural resource on earth. However, the major portion consists of salt water in the oceans and of glacier ice. Only a minor portion is immediately available for drinking water use. As a consequence, drinking water supplies are generally vulnerable to a multitude of natural and anthropogenic disturbances. Climate change, excessive consumption, contamination or other forms of water abuse by industries and agriculture have already lead to water shortages in several regions of the world, even of the western hemisphere. Despite numerous advances of regulatory measures such as the new European chemicals policy REACH and the EU Water Framework Directive, an increasing number of anthropogenic pollutants has been identified in water bodies. Provision of sufficient amounts of non-polluted water has thus become a major challenge to societies throughout the world. This INTERNATIONAL SYMPOSIUM aims at presenting in vitro test concepts for the evaluation and regulation of anthropogenic substances from the perspective of genotoxicity, neurotoxicity and endocrine effects.

SCIENTIFIC PROGRAMME

Thursday 22nd October 2015

10:30 Registration

Midday Session: 11:20 – 13:30 (Chair: A. Eckhardt)

11:20 – 11:35 Opening/Welcome message
E. Schmachtenberg, Rector of
RWTH Aachen University /
H. Hollert, Professor, RWTH Aachen
University

11:35 – 11:55 Opening lecture
T. Grummt, Germany
“Assessment of anthropogenic sub-
stances in the aquatic environment”

11:55 – 12:10 M. Kramer, Germany
“Micropollutants – a water provider’s
perspective”

12:10 – 12:30 M. Malki, Morocco
“Groundwater Characterization in
intensive agricultural area under arid
climate: case of Chtouka”

12:30 – 12:50 M. Schriks, The Netherlands
“EU DEMEAU project: Practical
application of in vitro bioassays in
water quality assessment”

12:50 – 13:10 L. Rink, Germany
“Development of a ready-to-use
cryo-microEROD bioassay”

13:10 – 13:30 F. Mertes, Germany
“Comparative study of dioxin con-
tamination from forest soil samples
(BZE II) by mass spectrometry and
EROD bioassay”

13:30 – 14:00 Coffee Break & Poster Session

Afternoon Session: 14:00 – 17:05

TOPIC 1 - Genotoxicity (Chair: E. Küster)

14:00 – 14:45 **Invited Lecture Genotoxicity**
David DeMarini, (EPA, USA)
“Use of In Vitro Assays to Assess the
Contribution of Environmental Con-
taminants on Water Mutagenicity”

14:45 – 15:10 M. Kramer, Germany
“The Tox-Box Guidance Document
for genotoxicity: a tiered in vitro
battery considering the
corresponding metabolism”

15:10 – 15:30 **Coffee Break & Poster Session**

15:30 – 15:50 A. Wigh, France
“How to get more information from
the Fish Embryo Toxicity test by
integrating sub-lethal effects and
evaluating primary DNA damages of
exposed embryos”

15:50 – 16:10 A. Jha, UK
“Linking genotoxicity with other
toxicological effects: in vitro and in
vivo studies”

16:10 – 16:30 E. Dopp, Germany
“The use of bioassays in wastewater
treatment processes to evaluate the
efficiency of ozonation and activated
carbon filters”

16:30 – 16:50 K. Baken, The Netherlands
“Tracing nitrogenous disinfection
byproducts after medium pressure
UV water treatment by stable isotope
labeling and high resolution mass
spectrometry.”

16:50 – 17:05 Discussion

18:15 **Guided tour of Aachen Cathedral**

19:30 **Conference Dinner**

Friday 23rd October 2015

Morning Session: 9:00 – 11:15

TOPIC 2 - Neurotoxicity (Chair: T. Braunbeck)

9:00 – 9:45 **Invited Lecture Neurotoxicity**
Stephanie Padilla, (EPA, USA)
“Neurotoxicity in aquatic systems:
evaluation of anthropogenic trace
substances”

9:45 – 10:10 T. Braunbeck, Germany
“The Tox-Box Guidance Document
for neurotoxicity: a tiered in vitro
battery combined with in vivo
confirmation”

10:10 – 10:30 S. Weiss, Germany
“Effect-directed analysis using
acetylcholinesterase assay with thin-
layer chromatography for the
selective detection of traces of
neurotoxic substances in raw- and
drinking water”

10:30 – 10:50 X. Cousin, France
“Neurobehavioral disruption after
exposure to persistent organic
pollutants”

10:50 – 11:15 J. Legradi, The Netherlands
“An alternative testing strategy for
neurotoxicity using zebrafish”

11:15 – 11:45 **Coffee Break & Poster Session**

TOPIC 3 - Endocrine Disruptors (Chair: T.-B. Seiler)

Midday Session: 11:45 – 15:45

11:45 – 12:30 **Invited Lecture Endocrine
Disruptors**
Peter Behnisch (BioDetection
Systems, Amsterdam)
„Effects of environmental pollutants
by in vitro bioanalysis”

12:30 – 12:55 H. Hollert, Germany
“The Tox-Box guidance document for
Endocrine Effects: Exposure-based
and hazard-based risk management
of anthropogenic trace substances in
drinking water abstraction”

12:55 – 13:15 S. Buchinger, Germany
„Characterization of samples by
endocrine activity profiles by pYES”

13:15 – 13:35	C. Weins, Germany <i>“The relevancy of Effect Directed Analysis implementing the European Water Framework Directive 2000/60/EC in the field of water policy.”</i>
13:35 – 14:05	Coffee Break & Poster Session
14:05 – 14:25	L. Gehrman, Germany <i>“Application of Arxula adenivorans yeast cell assays for the determination of endocrine active substances in wastewater and full scale ozonation of wastewater treatment plant effluents.”</i>
14:25 – 14:45	C. Houtman, The Netherlands <i>“Approaches to investigate hormone-active compounds with combinations of in vitro bioassays and chemical analyses in the water cycle for drinking water production”</i>
14:45 – 15:05	K. Westphal-Settele, Germany <i>“Exploring the value of gene expression biomarkers to detect endocrine disruption in fish”</i>
15:05 – 15:25	M. Kamber, Switzerland <i>“Testing of estrogenic and androgenic reference compounds using 2 versions of the yeast-based YES and YAS assay”</i>
15:25 – 15:45	M. Eidens, Germany <i>“Application of a yeast based biosensor (A-YES) for the effect-related detection of estrogen acting substances in native and extracted water samples”</i>
15:45	Closing Remarks