

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 Marschierstor

Friedland Strasse 6-8, 52064 Aachen

Phone: (+49)241/47880

Fax: (+49)241/4788110

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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

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Grummt, T. (Federal Environment Agency, Germany)
Hollert, H. (RWTH Aachen, Germany)
Kramer, M. (RheinEnergie, Germany)
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Local organisation

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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 -



GEFÖRDERT VOM



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 substances 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 contamination 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 Contaminants 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. Gehrmann, Germany <i>“Application of <i>Arxula adeninivorans</i> 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