



Programme

6th Late Summer Workshop

"Micropollutants in the water cycle"

Schloss Maurach, Lake Constance

September 29th - October 2nd, 2013

Sunday, 29th September

17.00 – 18.30 ♦ Registration

19.00 ♦ *Dinner*

– End of day 1 –

Monday, 30th September

8.00 – 9.00 ♦ *Breakfast*

9.00 – 9.15 ♦ **Prof. Dr. Torsten Schmidt,**
Chair of Water Chemistry Society, University Duisburg-Essen:
Welcome and opening remarks

9.15 – 10.15 ♦ **Prof. David Sedlak,**
University of California:
Managing trace organic contaminants in the urban water cycle

10.15. – 10.35 ♦ **Sascha Klein,**
Fresenius University of Applied Sciences, Idstein:
Microplastics in aquatic ecosystems: Sorption of organic
contaminants to synthetic polymers in fresh water

10.35 – 10.55 ♦ **Melanie Káh,**
University of Vienna (A):
Fate of nanopesticides in the environment

10.55 – 11.50 ♦ *Coffee break & Poster time*

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Gesellschaft Deutscher Chemiker e.V.





- 11.50 – 12.50 ♦ **Dr. Marja Lamoree,**
VU University Amsterdam:
 Effect directed analysis as a tool for the identification of chemicals of emerging concern
- 12.50 – 13.10 ♦ **Maria Huebner,**
TU München:
 Development of an Automated Flow-Through Immunoassay for the Multiplex Detection of Priority Pollutants in Surface Water
- 13.10 – 14.15 ♦ *Lunch*
- 14.15 – 15.15 ♦ **Dr. Kevin Thomas,**
Norwegian Institute for Water Re-search (NIVA):
 Illicit drugs in the urban water cycle
- 15.30 – 16.00 ♦ Bus-Shuttle to
 Zweckverband Bodensee-Wasserversorgung, Sipplingen
- 16.00 – 16.30 ♦ *Coffee break on site*
- 16.30 – 18.30 ♦ **Michael Petri,**
Zweckverband Bodensee-Wasserversorgung:
 Presentation and visit of the treatment plant Sipplinger Berg
- 18.30 – 19.00 ♦ Return by bus to
 Schloss Maurach
- 19.30 ♦ *Dinner*

– End of day 2 –



Tuesday, 01st October

- 8.00 – 9.00 ♣ *Breakfast*
- 9.00 – 10.00 ♣ **Prof. Dr. Eckhard Worch,**
TU Dresden:
 Removal of micropollutants from water and wastewater by
 adsorption – fundamentals and modelling approaches
- 10.00 – 10.20 ♣ **Johannes Altmann,**
Technical University Berlin:
 Removal of micro-pollutants from treated domestic wastewater by
 addition of powdered activated carbon to rapid-filtration – effect of
 PAC aggregation on adsorption behavior
- 10.20 – 10.40 ♣ **Victoria Drechsel,**
Institut für Wasserforschung GmbH, Schwerte:
 Reduction of organic pollutants in drinking water treatment
 Behaviour of amidotrizoic acid in natural und technical filter systems
- 10.40 – 11.10 ♣ *Coffee break*
- 11.10 – 12.10 ♣ **Prof. Hansruedi Siegrist,**
*Swiss Federal Institute of Aquatic Science and Technology,
 EAWAG, Dübendorf (CH):*
 Fate of micropollutants in wastewater treatment and measures to
 reduce them in surface water
- 12.10 – 12.30 ♣ **Dr. Christoforos Christoforidis,**
TU München:
 Redox transformations of selected pharmaceutical pollutants-
 Integration in RISK-IDENT
- 12.30 – 12.50 ♣ **Ferdinand Fischer,**
Federal Institute of Hydrology, Koblenz:
 The fate of fluoxetine under strictly anaerobic conditions
- 12.50 – 13.10 ♣ **Anne-Kathrin Weniger,**
TU Dresden:
 Transformation and sorption of diransformation of diclofenac with
 filter sands and manganese oxides
- 13.10 – 14.15 ♣ *Lunch*



- 14.15 – 15.15 ♦ **Prof. Dr. Pim de Voogt,**
University of Amsterdam:
 Behaviour of PFAS in the drinking water production cycles
- 15.15 – 15.35 ♦ **Sarah Willach,**
University Duisburg-Essen:
 Optimisation and application of an analytical method for the determination of adsorbable organofluorine compounds (AOF) in the water cycle
- 15.35 – 16.15 ♦ *Coffee break & Poster time*
- 16.15 – 16.35 ♦ **Uwe Hübner,**
Technical University Berlin:
 Modelling the transformation of trace organic compounds during ozonation of secondary effluents using tracer substances
- 16.35 – 16.55 ♦ **Minu Lee,**
EPFL, Lausanne (CH):
 Prediction of rate constants for the reaction of ozone with micropollutants: Quantum chemical approach
- 16.55 – 17.15 ♦ **Holger Lutze,**
University Duisburg-Essen:
 Characterization of sulfate radical based oxidation as a new option in oxidative water treatment for pollutant control
- 17.15 – 18.15 ♦ **Prof. Ian Cousins,**
ITM Stockholm University
 Environmental and human exposure assessments for per- and polyfluoroalkyl substances: modelling approaches
- 18.30 – 19.00 ♦ Taking Groupphoto
- 19.00 ♦ *Dinner*

– End of day 3 –



Wednesday, 02nd October

- 8.00 – 9.00 ♣ *Breakfast*
- 9.00 – 9.20 ♣ **Ralf Junek,**
Federal Environment Agency, FG II 3.6:
Presentation of a neurotoxicity test strategy within the health related indication value (HRIV) concept
- 9.20 – 9.40 ♣ **Johannes Alexander,**
Karlsruhe Institute of Technology (KIT):
Investigation of waterborne Pathogens and antibiotic resistance patterns: a project to develop a concept of biological risk control
- 9.40 – 10.00 ♣ **Sibylle Xenia Maletz,**
RWTH Aachen University:
Sources and bioanalytical detection of endocrine active trace substances in the water cycle
- 10.00 – 10.30 ♣ *Coffee break & Poster time*
- 10.30 – 11.30 ♣ **Ph.D. Michael J. Plewa,**
University of Illinois:
Toxicity and human toxicogenomics of water disinfection by products
- 11.30 – 11.45 ♣ **Prof. Dr. Torsten Schmidt,**
Chair of Water Chemistry Society, University Duisburg-Essen:
Closing remarks
- 12.00 ♣ *Lunch*

– End of workshop –