

8th Late Summer Workshop 2019

22th – 25th September 2019 in Haltern am See

- Chemical and biological transformation processes and tools for their investigation -

- Programme -Update

Sunday, 22nd September

- 16.30 18.30 Registration
- 19.00 Dinner -
- Afterwards Cometogether for a cocktail -

- End of day 1 -

Monday, 23rd September

Conference room "Drusus/Caesar"

Conference Office

Restaurant

Hotel-Bar

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

Chair: Dr. Holger Lutze

9.15 – 10.15 • Prof. Dr. Urs von Gunten, Eawag Water Resources and Drinking Water, Dübendorf, CH: Oxidation processes for water treatment: Are we on track?

10.15 – 10.45 • **Dr. Fabian Itzel,** Institut für Energie- und Umwelttechnik e.V. (IUTA), Duisburg, DE: Evaluation of a biological post-treatment after full-scale ozonation at a municipal wastewater treatment plant





10.45 – 12.00 - Coffee break & Poster time –

Conference room "Drusus/Caesar"

- 12.00 12.30 Stephanie Remke, Eawag EPFL, Dübendorf, CH: The role of "long-lived" photooxidants in the transformation of aquatic organic compounds photosensitized by dissolved organic matter
 12.30 – 13.30 Dr. Peter Tentscher, Aalborg Øst, DK:
- Aalborg Øst, DK: Chemical oxidation: How quantum chemical calculations can support experimental studies
- 13.30 16.00 Lunch & Poster time Restaurant + Room "Cicero"

Chair: Dr. Arne Wick		Conference room "Drusus/Caesar"
16.00 – 17.00	 Prof. Dr. Damian E. Helbling, School of Civil and Environmental Englished Ithaca, New York, USA: Can micropollutant biotransformations community biomolecular parts lists? 	
17.00 – 17.30	 Nina Henning, Federal Institute of Hydrology (BfG), I Koblenz, DE: Elucidating the biological transformati sitagliptin by carrier-attached biomass hybrid moving bed biofilm reactor 	on of fexofenadine and
18.00 – 19.30	- Dinner -	Restaurant
19.30 – 20.30	 Prof. Dr. Michael Dodd, University of Washington, Department Engineering, Seattle, USA: Antibiotic Resistance Gene Fate duri Processes: Degradation, Deactivation 	ng (Waste)water Disinfection

Mitigation of Antibiotic Resistance Dissemination

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 20.30 – 21.00 • Katharina Hupperich, University of Duisburg-Essen, Instrumental Analytical Chemistry, Essen, DE: Reaction of chlorine dioxide with organic matter – Formation of inorganic products

Afterwards - Cometogether -

Hotel-Bar

- End of day 2 -



Tuesday, 24th September

Chair: Prof. Dr. Ch	ristian Zwiener	Conference room "Drusus/Caesar"	
9.00 - 10.00	Dr. Imma Ferrer, <i>University of Colorado, Environmental</i> Identification of transformation products examples from pesticides in plants to s fracturing waters	s by LC/Q-TOF-MS -	
10.00 - 10.30 •	Dr. Martina Werneburg, Eberhard Karls University of Tübingen, Chemistry, Center for Applied Geosciel Targeted and non-targeted LC-MS wor input and transformation of emerging p system	nce, Tuebingen, DE: kflows for the identification of	
10.30 – 12.00	- Coffee break & Poster time –	Room "Cicero"	
12.00 – 12.30 ♦	Dr. Maolida Nihemaiti, Université Paris-Est Créteil, Laboratoire Systèmes Urbains, Créteil Cedex, FR: Screening of micropollutants and their t performic acid treated wastewater		
Chair: Prof. Dr. Thorsten Reemtsma			
12.30 – 13.30 •	Prof. David Sedlak, University of California, Department of Engineering, Berkeley, USA: Oxidative Treatment in Potable Water F Formation and Fate of Transformation	Reuse: Understanding the	
13.30 – 15.30	- Lunch & Poster time –	Restaurant + Room "Cicero"	

13.30 – 15.30 - Lunch & Poster time –

Conference room "Drusus/Caesar"

15.30 - 16.00 • Daniel Sauter, Berliner Wasserbetriebe, Research and Development, Berlin, DE: Post-treatment options for ozonation in tertiary municipal wastewater treatment

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Chair: Dr. Maik Jochmann

16.00 – 17.00	 Prof. Dr. Martin Elsner, Technical University of Munich, Chair of Analytica and Water Chemistry, Munich, DE: Exploring Transformation Pathways and Limits of Stable Isotope Fractionation 	-
17.00 – 17.30	 Jens Terhalle, University of Duisburg-Essen, Instrumental Analy Essen, DE: Isotopic effect of ozonation of specific reaction sit 	
From 19.00	A Disper	Halterner Sectorrassen

From 18.00 • Dinner Barbecue at lido Lake of Haltern Halterner Seeterrassen

– End of day 3 –



Wednesday, 25th September

Chair: Dr. Maik Jo	ochmann	Conference room "Drusus/Caesar"
9.00 - 10.00	Prof. Dr. Thomas Ternes, Federal Institute of Hydrology (BfG), Qu Koblenz, DE: Transformation products in the urban w	
10.00 - 10.30	Stefanie Lorenz, Leuphana University of Lüneburg, Instit Environmental Chemistry, Lüneburg, Di Design of fluoroquinolones with improve mineralization	E:
10.30 - 11.00	Nina Hermes, Federal Institute of Hydrology (BfG), De Koblenz, DE: Ozonation of the antidiabetic sitagliptin: kinetics and identification of transformat	determination of reaction
11.00 – 11.30	- Coffee break –	Room "Cicero"

Chair: Dr. Arne W	ick	Conference room "Drusus/Caesar"
11.30 – 12.30 🌢	Prof. Dr. Jeppe Lund Nielsen, <i>Aalborg University, Department of Cherr</i> <i>Aalborg DK:</i> Who and how do they degrade micropol	
12.30 - 13.00	Jonas Schaper, Leibniz Institute of Freshwater Ecology a Berlin, DE: Removal and Transformation of Trace O Hyporheic Reactors of Urban Freshwate	rganic Compounds in
13.00 - 13.15	Prof. Dr. Torsten Schmidt, Chair of Water Chemistry Society, Unive Essen, DE: Closing remarks	ersity Duisburg-Essen,
13.15	- Lunch –	Restaurant
	– End of workshop –	

