



## **8<sup>th</sup> Late Summer Workshop 2019**

22<sup>th</sup> – 25<sup>th</sup> September 2019 in Haltern am See

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

- Poster catalogue -  
Update

### **Biological methods**

BM001

**Influencing parameters for the transformation of trace organic compounds in laboratory sand columns**

J. Filter, Berlin/DE, M. Kopp, Berlin/DE, Y. Wang, Berlin/DE, A. S. Ruhl, Berlin/DE, M. Jekel, Berlin/DE

BM002

**Analysing biotransformation kinetics of micropollutants across water-sediment test systems**

C. Seller, Zurich/ CH, H. Singer, Zurich/ CH, K. Fenner, Zurich/ CH

### **Case examples**

CE001

**Batch ozonation of groundwater NOM**

J. Kaemmler, Hamburg/DE, M. Ernst, Hamburg/DE, B. Wendler, Hamburg/DE, L. Preda, Hamburg/DE

CE003

**Mitigation of membrane fouling in submerged photocatalytic membrane reactors**

C.B. Ong, Duisburg/DE, I.M.A. ElSherbiny, Duisburg/DE, A.W. Mohammad, Bangi/MY, S. Panglisch Duisburg/DE

### **Chemical methods**

CM001

**Differentiating sorption and degradation of phosphonate complexing agents using liquid chromatography/ isotope ratio mass spectrometry**

P.R. Martin, Tübingen/DE, D. Buchner, Tübingen/DE, M.A. Jochmann, Essen/DE, S.B. Haderlein, Tübingen/DE

Eine Fachgruppe in der  
Gesellschaft Deutscher Chemiker e.V.





CM002

**High throughput antibiotics-screening assay for toxicological characterization of hospital effluent**

T.J.H. Jonkers, Amsterdam/NL, M. Steenhuis, Amsterdam/NL, L.Schalkwijk, Amsterdam/NL, J. Luirink, Amsterdam/NL, D. Bald, Amsterdam/NL, C. Houtman, Haarlem/NL, J. Kool, Amsterdam/NL, M. Lamoree, Amsterdam/NL, T. Hamers, Amsterdam/NL

CM003

**Effect-directed analysis for the identification of genotoxic ozonation reaction products formed during treatment of wastewater containing industrial discharges**

T. Manasfi, Dübendorf/CH, U. von Gunten, Dübendorf/CH, J. Hollender, Dübendorf/CH, C.S. McArdell, Dübendorf/CH

CM004

**Selective determination of free chlorine by indirect measurement of *N*-chloroglycine in ion chromatography**

M.S. Abdighahroudi, Essen/DE, H.V. Lutze, Essen/DE, T. C. Schmidt, Essen/DE

CM005

**Stability test of selected synthetic cannabinoids and some of their human metabolites in sewage water and identification of transformation products**

P. Hehet Wiesbaden/DE, N. Köke Idstein/DE, T. Frömel Idstein/DE, D. Zahn Idstein/DE, T.P. Knepper, Idstein/DE, M. Pütz Wiesbaden/DE

CM006

**Investigation of  $\text{ClO}_2$  reactions with reactive moieties, formation of hypochlorous acid as secondary oxidant - challenges and solutions**

M. Jütte, Essen/DE, M.S. Abdighahroudi, Essen/DE, R. Kalnins, Essen/DE, H.V. Lutze, Essen/DE, T.C. Schmidt, Essen/DE

CM007

**Quantifying oxidant-reactive phenolic oxidation by-product precursors in dissolved organic matter**

J. Houska, Dübendorf/CH, U. von Gunten, Dübendorf/CH

## Fundamentals

FU001

**Reactions of saturated heterocyclic amines with chlorine dioxide**

X. Mutke, Essen/DE, M.S. Abdighahroudi, Essen/DE, H.V. Lutze, Essen/DE, T. C. Schmidt, Essen/DE

FU002

**Inhibitory effect of dissolved organic matter on the transformation of selected anilines and sulfonamide antibiotics induced by the sulfate radical**

S. Canonica, Dübendorf/CH, U. Schönenberger, Dübendorf/CH

Eine Fachgruppe in der  
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FU003

**Ozonation of Fluoroquinolone Antibiotics – Transformation Pathways and Genotoxic Effects**

O. Knoop, Garching/DE, A. Sprafke, Garching/DE, M. Hofmann, Garching/DE, J.E. Drewes, Garching/DE

FU004

**Degradation of the refractory compound pyrazole**

L. Lattenkamp, Essen/DE, T. Dunkel, Cologne/DE, M. Denecke, Essen/DE

FU005

**Influence of matrix components on the degradation of nitrogen containing compounds during ozonation**

V. Wirzberger, Essen/DE, V. Merkus, Essen/DE, M. Klein, Essen/DE, L. Hohrenk, Essen/DE, H.V. Lutze, Essen/DE, T.C. Schmidt, Essen/DE

FU006

**Seasonal variability of hexachlorocyclohexane isomers distribution in *Alnus glutinosa***

P. Hrabák, Liberec/CZ, V. Antoš, Liberec/CZ, K. Lísková, Liberec/CZ, S. Waclawek, Liberec/CZ, M. Černík, Liberec/CZ

FU007

**Drinking Water Treatment in China – Toxicity Testing and Optimization in Trace Substance Elimination at Tai Lake**

C. Schmid, Muelheim (Ruhr)/DE, M. Büter, Muelheim (Ruhr)/DE, T. aus der Beek, Muelheim (Ruhr)/DE, E. Dopp, Essen/DE

## HR-MS

HM001

**Transformation Products of Fluoxetine Formed by Photodegradation in Water and Biodegradation in Zebrafish Embryos**

S. Tisler, Tübingen/DE, F. Zindler, Heidelberg/DE, F. Freeling, Karlsruhe/DE, K.Nödler, Karlsruhe/DE, L. Toelgyesi, Waldbronn/DE., T. Braunbeck, Heidelberg/DE, C.Zwiener, Tübingen/DE

HM002

**Use of non-target screening in combination with effect-directed analysis for the determination of ozonation transformation products of 1-Butylpyrrolidin-2-one**

T. Bader, Langenau/DE, M. Flörs, Langenau/DE, L. Stütz, Langenau/DE, W. Seitz, Langenau/DE, R. Winzenbacher, Langenau/D

HM003

**Identification and occurrence of transformation products of citalopram and venlafaxine in surface and wastewater**

R. Bauer, Tübingen/ DE, C. Zwiener, Tübingen/ DE



HM004

**Mass Spectral Identification of Dissolved Black Carbon and Nitrogen from Wildfires Using LC/QTOF-MS**

E.M. Thurman, Boulder/US, I. Ferrer, Boulder/US, J. Zweigenbaum, Wilmington/US

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