River Basins 2017

Vienna, 19 and 20 June 2017

Karlsruhe Institute of Technology

TECHNISCHE UNIVERSITÄT WIEN

Monday, 19th June

8:30	*Registration and coffee*	
9:00	**Welcome and opening**	**Matthias Zessner (TU Wien) and Stephan Fuchs (KIT)**
	Monitoring	**Chair: Stephan Fuchs - KIT**
09:15	**A monitoring network platform for automated data assessment and its long-term application as surveillance system for transboundary water pollution** A. Winkelbauer – TU Wien, Austria	
09:45	**Ship-borne measurements of enzymatic GLUC activity on large water bodies: A rapid screening tool to localize point sources of potential microbial pollution** P. Stadler – TU Wien, Austria	
10:15	**The impact of the Sava river pollution on biomarkers response in the liver and gills of three cyprinid species** J. Kostic – University of Belgrade, Serbia	
10:45	*Coffee break*	
	Monitoring and modelling	**Chair: Matthias Zessner - TU Wien**
11:05	**Multidimensional monitoring of microbial faecal pollution reveals dominance of human contamination along the whole Danube River** AKT Kirschner – Medical University of Vienna, Austria	
11:35	**Transboundary riverine transport of suspended sediment and chemicals from Czech Republic** L. Kohút – Czech Hydrometeorological Institute, Czech Republic	
12:05	**History, results and methodological remarks to monitoring of total organic carbon in the riverine water of Danube River basin under TNMN** A. Górniak – University of Bialystok, Poland	
12:35	*Lunch*	
	Modelling	**Chair: Adrienne Clement - BME**
13:30	**Predicting levels of microorganisms and viruses in river Danube water resources with a lumped hydrological water quality and infection risk model** J. Derx – TU Wien, Austria	
14:00	**Emission inventories for priority substances at catchment levels: Solving the PAH source conundrum with an array of in-stream tools** T. Gallé – Luxembourg Institute of Science and Technology, Luxembourg	
14:30	**Quantification of emissions across international border** S. Fuchs – Karlsruhe Institute of Technology, Germany	
15:00	**Mass balance of organic contaminants at the scale of the Seine River Basin** D. Gateuille – Université Paris Est-Créteil, France	
15:30	*Coffee break*	
	Poster session	**Chair: Ottavia Zoboli - TU Wien**
15:50	**Poster pitch presentations and sponsor presentation**	
16:40	**Poster discussion**	
18:00	**End of first day**	

Tuesday, 20th June

	Modelling and Management	**Chair: Adam Kovacs - ICPDR**
08:30	**Spatial relationships between sources of micropollutants and drinking water supply in the Rhine basin – Misfit between physical affectedness and regulatory embeddedness** C. Stamm – EAWAG, Switzerland	
09:00	**Cross-border consequences and conflicts of interest in River Basin Management Planning: the case of the Tisza River (Ukraine, Romania, Hungary, Serbia)** M. Honti - MTA-BME Water Research Group, Hungarian Academy of Sciences, Hungary	
09:30	**Estimating field-relevant degradation rates for emerging contaminants in the Danube Basin** Van Gils – Deltares, Netherlands	
10:00	*Coffee break*	
	Management	**Chair: Jos van Gils - Deltares**
10:30	**Numerical Modelling of Trace Substance Concentrations in the Ruhr River Catchment – A Tool for Operational Planning** T. Gehrke – Ruhrverband, Germany	
11:00	**From end-of-pipe to control at source - Source control strategies in the water- and wastewater sector** E. Fältström - Sweden Water Research, Sweden	
11:30	**The Role of Transnational Municipal Networks in Transboundary Water Governance** S. Jetoo - Åbo Akademi University, Finland	
12:00	**Final discussion and closing speech**	**Matthias Zessner - TU Wien**
12:30	**End of the conference**	

Sponsored by

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Get together
19th June - 19:30
La Creperie
An der Oberen Alten Donau 6
1210 Vienna
(*Dinner included in the conference fee*)

In cooperation with

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ENVIRONMENT AGENCY AUSTRIA

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MŰEGYETEM 1782

ICPDR IKSD
International Commission for the Protection of the Danube River
Internationale Kommission zum Schutz der Donau

bfg Bundesanstalt für Gewässerkunde

Deltares

Posters

Trans-boundary Water Management for Human Development: Case study of Ethiopia and Sudan in the Eastern Nile Basin
A. Abbker Abdalla – UNESCO Chair for Water Resources, Sudan

Tracing the origin of nutrients, pesticides and heavy metal loads in a river basin
C. Chrzanowski – Deltares, Netherlands

Harmonization of complex input data – lessons learned in the transboundary Inn catchment
O. Gabriel – Environment Agency Austria, Austria

Investigation of Land Use Effects by Using a Hydrodynamic Model for Ankara Stream Watershed
S. Gülbaz – Instanbul University, Turkey

Flood Modelling of Ayamama River Basin in Istanbul, Turkey
S. Gülbaz and C.M. Kazekyilmaz-Alhan – Instanbul University, Turkey

Assessment of nutrient retention in Hungarian rivers based on long term monitoring data
Z. Jolankai – Budapest University of Technology and Economics, Hungary

Processing statistical parameters of concentration along a river network
M. Kardos – Budapest University of Technology and Economics, Hungary

The random amplified polymorphic DNA (RAPD) assay in assessment of genotoxic potential: the Sava River case study
J. Kostic – University of Belgrade, Serbia

Sponsor presentation

Ganges, reaching new shores in river monitoring
L. Kornfeind – scan Messtechnik GmbH, Austria

Heavy metal transport in the river Elbe: A model-based assessment of extreme events
M. Labadz – Federal Institute of Hydrology (BfG), Germany

Assessing uncertainties in hydrological modelling of discharge and nitrate nitrogen under future climate change conditions for Austrian catchments
B. Mehdi – BOKU, Austria

Monitoring of Biocides in German Sewage Treatment Plant Effluents
C. Meier – German Environment Agency, Germany

Flood risk map as a tool for preventing material damage: case study of the Bistrita River (Romania)
G. Romanescu – University of Iasi, Romania

Micropollutants in German Municipal Wastewater Treatment Plants – a nation-wide monitoring campaign
S. Toshovski – Karlsruhe Institute of Technology, Germany

Assessment of potential availability of particulate phosphorus from soil erosion in rivers
H. Trautvetter – TU Wien, Austria

Annual Fluxes and Risk Assessment of Emerging Contaminants from a Scottish Priority Catchment to the Estuary and North Sea
Z. Zhang – The James Hutton Institute, UK

From Emission Modeling to Water Quality Modeling – New Developments for MoRE
S. Ziegler – Karlsruhe Institute of Technology, Germany