



River Basins 2024 Budapest



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Program

Tuesday, 4th June

8:00 – 9:00	Registration
9:00 – 9:10	Welcome and opening <i>Miklós Patziger, Head of the Department of Sanitary and Environmental Engineering, BME</i>
Monitoring Chair: Adrienne Clement, BME	
9:10 – 9:40	Influence of sampling strategies on the assessment of concentrations and loads of trace contaminants in surface waters <i>Ottavia Zoboli – TU Wien, Austria</i>
9:40 – 10:10	Particle-bound nutrients and trace substances in small streams: Implications for the aquatic environment and presentation of a novel sampling method – <i>Peter Flödl – BOKU Wien, Austria</i>
10:10 – 10:40	Trace substance monitoring at the intersection of urban drainage and an urban river in Karlsruhe, Germany <i>Lukas Kopp – Karlsruhe Institute of Technology, Germany</i>
10:40 – 10:45	Summary of the Session
10:45 – 11:10	Coffee break
Monitoring and modelling I Chair: Ottavia Zoboli, TU-Wien	
11:10 – 11:40	Benchmarking the persistence of organic micropollutants in large European rivers <i>Mark Honti - HUN-REN-BME Water Research Group, Hungary</i>
11:40 – 12:10	PFAS transport and retention during riverbank filtration and in saturated columns – <i>Thomas James Oudega - TU Wien, Austria</i>
12:10 – 12:40	Exploring human-vector dynamics using insect repellent concentrations in the river – <i>Enpei Li - BfG, Germany</i>
12:40 – 12:45	Summary of the session
12:45 – 12:50	Presentation of Hauraton
12:50 – 13:45	Lunch
Monitoring and Modelling II. Chair: Jos van Gils, Deltares	
13:45 – 14:15	Assessment of diffuse heavy metal loadings by surface water and evaluation of their potential contamination <i>Yassine Mimouni - University of Liège, Belgium</i>
14:15 – 14:45	Assessment of the share of sediments in the eutrophication of reservoirs: Case study from the Czech Republic <i>Josef Krása - Czech Technical University Prague, Czech Republic</i>
14:45 – 15:15	Transboundary contamination risk assessment and modelling in the Drava River floodplain <i>Jasminka Alijagić – Geological Survey of Slovenia</i>

15:15 – 15:20	Summary of the session
15:20 – 15:25	Presentation of Eijkelkamp & Jakab
15:25 – 15:50 Pitch presentation of posters I. Moderator: Martine Broer, UBA	
A harmonized Danube basin-wide multi-compartment concentration database to support inventories of micropollutant emissions to surface waters <i>Steffen Kittlaus - TU Wien, Austria</i>	
Mercury pollution in the Lom River Basin (East Cameroon): using PEGASE model to assess small scale gold mining pressures over surface water quality <i>Bella Atangana, Marie Sorella - University of Liège, Belgium/Cameroon</i>	
Seasonality in agricultural-associated river pollution: a global multi-pollutant modelling <i>Mirjam Bak – Wageningen University, The Netherlands</i>	
Investment needs in water and wastewater infrastructure and inevitability of horizontal and vertical solidarity in fulfilling SDG 6 <i>Károly Kovács – BDL Ltd., Hungary</i>	
Investigating eutrophication levels in the stream network of the Danube Basin <i>Eszter Dóra Nagy – BME, Hungary</i>	
Event forecasting of rivers with soft computing methods <i>Tamás Koncsos – BME, Hungary</i>	
Assessment of erosion phosphorus transport risk: Case study for the Elbe Basin <i>Barbora Jáchymová – Czech Technical University Prague, Czech Republic</i>	
Detecting pollutant sources and pathways: High-frequency automated online monitoring in a small rural French/German transborder catchment <i>Angelika Meyer – Saarland University, Germany</i>	
Modelling of PFAS emissions into the Upper Danube <i>Meiqi Liu – TU Wien, Austria</i>	
Quality management in river basins starts at the micro level: Filtration systems for storm water treatment – Appropriate filter substrates <i>Claus Huwe – Hauraton Ltd., Germany</i>	
Can machine learning tools support biological quality status assessment? <i>Orsolya Szomolányi – BME, Hungary</i>	
15:50 – 16:30	Coffee break + poster discussion
16:30 – 17:00 Pitch presentation of posters II. Moderator: S. Kittlaus, TU-Wien	
Application of different types of catchment models to support understanding the hydrological and transport processes, emission patterns and model limitations related to these in a meso-scale catchment <i>Zsolt Jolánkai – BME, Hungary</i>	

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Updating input data and expanding the range of substances by a harmonized approach for modelling emissions from Urban Systems and Municipal Wastewater Treatment Plants in MoRE – Julia Nowak - KIT, Germany

Heated rivers: Learning from climate change and energy scenarios along a 700 km stretch of the Rhine

Tanja Bergfeld-Wiedemann – BfG, Germany

Studying the effects of water temperature, phytoplankton and discharge variations on dissolved oxygen in the German reach of free-flowing Rhine

Manoj Sanyasee Thapa – BfG, Germany

Exploring carbon dioxide dynamics and anthropogenic influences in the Ganga River: Implications for riverine management

Pooja Upadhyay – IIT Roorkee, India

Identification of drained areas for enhanced precision in regionalized emission modeling

Michelle Wild – KIT, Germany

Estimation of hazardous substance loads in a small catchment based on composite sampling

Tímea Lajkó – BME, Hungary

Lesson learned from the application of a catchment-specific continuous surface water quality monitoring system

Zsófia Kovács – University of Pannonia, Hungary

Horizontal and vertical mass fluxes between aquifer and river during river floods

Gadadhara Ferraz de Figueiredo – BME, Hungary

Assessment of pollutant emissions to support river basin management in Albania according to the EU, AMORE-AL

Khuljo Sema – Agricultural University of Tirana, Albania

Spatial variability of meander characteristics within a distributive fluvial system experiencing an avulsion

Neve Norris – University of Glasgow, United Kingdom

Comparative isotope hydrological characterization of the elements of the water cycle in two continental catchments: Koppány (Hungary) and Ledava (Slovenia) streams

István Gábor Hatvani – HUN-REN Research Centre for Astronomy and Earth Sciences, Hungary

A model-based case study for wetland restoration effects on the hydrological conditions at a Hungarian lowland catchment

Zsolt Kozma – Budapest University of Technology and Economics, Hungary

17:00 - 17:30 Poster discussion

17:30 End of 1st day

19:00 – 22:00 Gala dinner & cruise on the Danube (cruise boarding & disembarking: Jászai Mari tér, dock nr. 3. [GPS: 47.51695, 19.04836](https://www.google.com/maps/place/47.51695,19.04836))

Wednesday, 5th June

	Modelling	Chair: Stephan Fuchs, KIT
8:30 – 9:00	Calculating emissions to water – a simplified method implemented as a spatially and temporally distributed model <i>Jos van Gils – Deltares, The Netherlands</i>	
9:00 – 9:30	Modelling of nutrient emission in river systems (MONERIS): Presenting new perspectives and current developments of a widely used emission model <i>Anna Oprei – IGB Berlin, Germany</i>	
9:30 – 10:00	Complex water quality simulations in Želivka river basin and Švihov Water reservoir (CZ) <i>Pavel Tachecí – DHI a.s., Prague, Czech Republic</i>	
10:00 – 10:30	Developing nitrogen boundaries for surface water bodies on national and regional scale for Germany <i>Karoline Morling – Karlsruhe Institute of Technology, Germany</i>	
10:30 – 10:35	Summary of session	
10:35 – 11:00	Coffee break	

	Modelling and Management	Chair: Oliver Gabriel, UBA Austria
11:00 – 11:30	The new Urban Wastewater Treatment Directive from the perspective of the receiving rivers <i>Máté Kardos – BME, Hungary</i>	
11:30 – 12:00	Nitrogen and phosphorous load reduction approach for catchments to reach the water quality targets set for the Water Framework Directive <i>Peter Schipper – Wageningen University & Research, Netherlands</i>	
12:00 – 12:30	Efficiency of the buffer zones in nutrient load reduction under climate change conditions <i>Damian Bojanowski – AGH University of Krakow, Poland</i>	
12:30 – 12:35	Summary of session	
12:35 – 12:40	Closing of the conference - <i>Adrienne Clement, BME</i>	
12:40 – 13:40	Farewell Lunch	

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