



Programme

Symposium

"Uncertainty in river water monitoring"

New insights on spatio-temporal variability of suspended river water components

Organized by: The International Centre for Water Resources and Global Change (ICWRGC) Federal Institute of Hydrology (BfG)

 Date:
 November 30th & December 1st 2022

 URSACHEN team:
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 Website:
 https://www.waterandchange.org/symposium-2022/

30.11.2022		Methods
		Session Chair: Harald Koethe
	08:30	Login of participants
	09:00	Start of the Symposium
	09:30	Keynote Talk: Ton Hoitink
	10:00	Jessica Laible: Using a hydroacoustic method to establish continuous time series of suspended sand concentration and grain size in the Isère River, France
	10:20	Núria Martinez Carreras: Estimating concentrations and fluxes of sediment-associated chemical constituents using a submerged spectrophotometer
	10:40	Simon Terweh and Nadine Belkouteb: The "URSACHEN measuring frame" - a new approach for combined sampling of sediment characteristics and chemical composition in river cross sections
	11:00	Break
	11:15	Dhruv Sehgal: Estimating suspended sediment concentration using turbidity and sediment characteri- stics
	11:35	Mohamed Harhash: Evaluation of sampling efficiencies of five suspended particulate matter samplers – mineral particles, organic particles and microplastics
	11:55	Sanjaykumar M. Yadav and Urvashi Malani: Suspended sediment measurements in India
	12:05	Nadine Belkouteb: Multielement ICP-QQQ-MS in long term monitoring - a future tool to close knowledge gaps in regional and global element cycles?
	12:25	Break
	13:15	Open Discussions in Discussion Rooms
30.11.2022		Spatial variability
		Session Chair: Thomas Hoffmann
	13:45	Start of the Session: Spatial variability
	13:50	Aron Slabon: Vertical and lateral variability of suspended sediment based on cross-sectional measurements at the river Rhine
	14:10	Katy Wiltshire: Investigating challenges in n-alkane fingerprinting using streambed and suspended sediments
	14:30	Iris Niesten: Residual sediment transport in a stratified estuarine channel
	14:50	Break
	15:10	Pali Gelsomini: Pixel selection for validation of remote sensed SPM from Sentinel 2 Satellite imagery in a heterogeneous inland narrow stream
	15:30	Tobias Brehm and Steffen Hackbusch: Possibilities and Challenges of Chlorophyll-a and Turbidity Measurements via Remote Sensing in the German Bight
	15:50	Felix Lorenz: Consideration of Uncertainty in hydrographic surveys - a geodetic perspective

	16:00	Hadeel Al-Zawaidah: A phase diagram to predict the transport modes of microplastics in rivers
	16:10	Sylvester Richard Chikabvumbwa: GIS-based spatio-temporal quantification of sediment load in an urban river in Malawi: Case of Lilongwe River
	16:20	Keynote Talk: Marwan Hassan
	16:50	Optional open Discussions in Discussion Rooms
	17:30	open end
01.12.2022		Temporal variability
		Session Chair: Lars Duester
	08:00	Login of participants
	08:30	Start of the Symposium
	08:45	Keynote Talk: Magdalena Bieroza
	09:15	Thomas Hoffmann and Aron Slabon: Temporal variability of suspended sediment transport in rivers channels
	09:35	Khoa V. L. Thi: Exploring the dependance of floating plastic transport on river discharge
	09:55	Lorenz Gfeller: Temporal Variability of Mercury in Suspended Particulate Matter of German Rivers over Seasonal and Decadal Time Scales
	10:05	Nikolaus Weber: Monitoring of suspended solids and related micropollutants: Results from a 20-month long monitoring campaign at three Austrian rivers
	10:15	Open Discussions in Discussion Rooms
	10:45	Break
	11:00	Emma Lannergård: Hysteresis in the flow-turbidity relationship to better understand particle mobilization under current and future conditions
	11:20	Renee van Dongen: Global variations in SSC-Q relationships and the controlling catchment characteristics
	11:40	Sanjana Balachandran: Increased Use of Quaternary Alkylammonium Compounds during the SARS-CoV-2 Pandemic: Environmental Concentrations in Rivers and Multi- resistance Development in Pathogenic and Environmental Bacteria
	12:00	Sophie Lennartz: Quaternary Alkylammonium Disinfectants in Suspended Particulate Matter of German Rivers before and during the SARS-CoV-2 Pandemic
	12:10	Julia Arndt: High-resolution on-/atline monitoring at the River Rhine – which time interval is needed?
	12:20	Mahamat Nour Abdallah: Characterization of dissolved chemical elements in the Chari and Logone Rivers, Lake Chad Basin
	12:30	Magdalena Uber: Temporal variability in suspended sediment provenance identified with multi-tracer- multi-model sediment fingerprinting
	12:40	Open Discussions in Discussion Rooms