



**UWI Summer School  
18<sup>th</sup>/19<sup>th</sup> September 2019  
Hotel Sommerfeld, Kremmen**

**Day 1, 18<sup>th</sup> September 2019**

10:00	Welcome	Reinhard Hinkelmann
10:15	Introduction External Advisory Board (EAB) Members	Elisabeth Gross Hans Moser Torsten Schmidt
<i>Interfaces in urban watersheds, session chair: Birgit Kleinschmit</i>		
10:30	Scaling and connectivity assessment of critical source areas of diffuse pollution in urban catchments (W2)	Nasrin Haacke
10:45	Modelling of flash floods in small natural and urban catchments	Franzi Tügel
11:00	Ecohydrological controls on urban groundwater recharge: an isotope-based modelling approach (W1)	Lena-Marie Kuhlemann
11:15	Heat and vapour fluxes of urban vegetation patterns – a remote sensing based approach (W3)	Stenka Vulova
11:30	Coffee break	
12:00	Water, heat and contaminant transport in paved urban soils	Basem Aljoumani
12:15	Presentation MOSAIC-group	Mikael Gillefalk/ Christian Marx
12:30	Presentation of collaboration ideas of UWI common topic group 'Interfaces in urban watersheds'	Common topic group
<i>Interfaces in urban freshwater ecosystems, session chair: Sabine Hilt</i>		
12:45	Interactions between invasive ecosystem engineers and bank filtration in urban lakes (F1)	Anna Lena Kronsbein
13:00	Update on F2	Ferdi Hellweger
13:05	Lunch	
14:00	Controlling of phosphorus fluxes in urban systems: Analogous processes in limnic sediments and sewage sludges (F3)	Lena Heinrich
14:15	Ecosystem metabolism in natural and technical aquatic systems of urban environments (N4)	Clara Romero
14:30	The GHG footprint of a metropolitan area (F4)	Benjamin Archer



**Day 1, 18<sup>th</sup> September 2019 (continued)**

14:45	Immission and effect iron from mining regions - Dispersion mechanisms and biogeochemical signatures	Giulia Friedland
15:00	Artificial neural networks to predict water levels for inland navigation/in the Rhine River	Elena Matta
15:15	Presentation of collaboration ideas of UWI common topic group 'Interfaces in urban freshwater systems'	Common topic group
15:30	Coffee break	
<i>Interface urban hyporheic zones, chair person: Jörg Lewandowski</i>		
16:00	Retention of trace organics in urban hyporheic bioreactors (H1)	Birgit Müller
16:15	Integral modelling approach for flow and reactive transport in groundwater-surface water interaction space (N7)	Tabea Broecker
16:30	Integral modelling approach for flow and reactive transport at surface water - groundwater interfaces (H2)	Vahid Sobhi Gollo
16:45	Abiotic transformation of organic trace compounds (H3)	Yuki Sorgler
17:00	Redox gradients in natural and technical systems: Population structure and physiological properties (H4)	Niranjana Mukherjee
17:15	Investigating the behaviour of microplastic particles via optical imaging	Stefan Dittmar
17:30	Presentation of collaboration ideas of UWI common topic group 'Interface urban hyporheic zones'	Common topic group
17:45	UWI – BWB exchange session	Katharina Teuber and UWI collaborators
19:00	Dinner	



**Day 2, 19<sup>th</sup> September 2019**

8:30	Meeting External Advisory Board (EAB)	
9:00	Meeting External Advisory Board (EAB) and Internal Steering Committee (ISC)	
9:45	Coffee break	
<i>Interfaces in sewer systems, chair person: Adrian Augustyniak</i>		
10:00	Corrosion and odour in sewers caused by biochemical processes of sulphurous compounds (S1)	Micaela Pacheco Fernandez
10:15	Corrosion in sewers caused by biochemical processes of sulphurous compounds	Daneish Despot
10:30	Assessment of biofilms in sewer systems and on building materials	Adrian Augustyniak
10:45	Three-phase simulation model for odour and corrosion in sewer systems (S2)	Abhinav Dixit
11:00	Presentation of collaboration ideas of UWI common topic group 'Interfaces in urban sewer systems'	Common topic group
11:15	<i>Synthesis &amp; Feedback, chair person: Reinhard Hinkelmann</i>	
12:00	Lunch	
<i>Individual meetings with Boards of Supervisors (BoS) – 2<sup>nd</sup> cohort:</i>		
13:00	F1: Anna Lena Kronsbein, Hilt, Hellweger, Schmidt, Lewandowski W3: Stenka Vulova, Kleinschmit, Tetzlaff, (Soulsby not present) (together with W1) W1: Lena-Marie Kuhlemann, Tetzlaff, Kleinschmit, (Soulsby not present) (together with W3) H4: Niranjana Mukherjee, Szewzyk, Braun, Casper, Gessner S1: Micaela Pacheco, Barjenbruch, Hinkelmann (Stephan not present) (together with S2) S2: Abhinav Dixit, Hinkelmann, Barjenbruch (Stephan not present) (together with S1)	
13:45	F4: Ben Archer, Gessner, Casper, Singer, Kleinschmit H1: Birgit Müller, Lewandowski, Hellweger, Putschew (Batelaan not present) W2: Nasrin Haacke, Paton, Nehls, Hinkelmann	
14:30	F3: Lena Heinrich, Hupfer, Barjenbruch H2: Vahid Sobhi Gollo, Hinkelmann, Lewandowski, Nützmänn H3: Yuki Sorgler, Putschew, Hellweger, Adrian	
~ 15:15	End of summer school	