



**Exposé Talks, 8 December 2015, IGB Lecture Hall -  
Müggelseedamm 310, 12587 Berlin**

**Part I**

9:00	Welcome and speaker information	Gunnar Nützmann
09:15	Changes in groundwater seepage due to bank filtration effecting urban lake resilience (N5)	Mikael Gillefalk
09:45	Impact of remaining wastewater constituents on interfaces in surface waters (T4)	Robert Ladwig
10:15	Retention of chemical compounds in hyporheic reactors of urban freshwater systems (N6)	Jonas Schaper
10:45	Integral modelling approach for flow and reactive transport in groundwater-surface water interaction space (N7)	Tabea Broecker
11:15	Feedback N5, T4, N6, N7,	
11:45	Three-phase simulation model for odour and corrosion in sewer systems (T3)	Katharina Teuber
12:15	Corrosion in sewers caused by biochemical processes of sulphurous compounds (T2)	Maria Grüneberger
12:45	Corrosion in sewers caused by biochemical processes of sulphurous compounds (T2)	Daneish Despot
13:15	Degradation of recalcitrant organic trace pollutants in biofilms at solid-water interfaces (N1)	Marcella Nega
13:45	Feedback T3, T2, T2, N1	
14:15	Lunch	



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**Part II**

14:45	Greenhouse gas formation and flux across boundaries in urban water bodies (N3)	Sonia Herrero
15:15	Ecosystem metabolism in natural and technical aquatic systems of urban environments (N4)	Clara Romero
15:45	Heat and vapor transport at the soil-atmosphere interface in urban areas (N2)	Kyle Pipkins
16:15	Role of dust and solid waste on water and contaminant transport processes at the pavement-water interface (T1)	Anne Timm
16:45	Feedback N3, N4, N2, T1	
17:15	Desorption kinetics and irreversibility in applications of technical adsorbents for water treatment (T5)	Geert Aschermann
17:45	Deiodination of iodinated contrast media (ICMs) in bank filtration of urban waters (T6)	Fatima El-Athman
18:15	Feedback T5, T6	

## Overview doctoral theses

Natural interfaces (group N)		Technical interfaces (group T)	
<b>N1</b>	<p><b>Degradation of recalcitrant organic trace pollutants in biofilms at solid-water interfaces</b>            Student: Marcella Nega            BoS: Szewzyk, Braun, TUB, Casper IGB and Gessner, IGB &amp; TUB</p>	<b>T1</b>	<p><b>Role of dust and solid waste on water and contaminant transport processes at the pavement-water interface</b>            Student: Anne Timm            BoS: Wessolek, Nehls, Jekel and Albers, TUB</p>
<b>N2</b>	<p><b>Heat and vapor transport at the soil-atmosphere interface in urban areas</b>            Student: Kyle Pipkins            BoS: Kleinschmit, Wessolek, TUB and Sieker, IPS</p>	<b>T2</b>	<p><b>Corrosion in sewers caused by biochemical processes of sulphurous compounds</b>            Students: Maria Grüneberger/            Daneish Despot            BoS: Stephan, Barjenbruch, TUB and Gnirss, BWB</p>
<b>N3</b>	<p><b>Greenhouse gas formation and flux across boundaries in urban water bodies</b>            Student: Sonia Herrero            BoS: Gessner, IGB &amp; TUB, Casper, IGB and Kleinschmit, TUB</p>	<b>T3</b>	<p><b>Three-phase simulation model for odour and corrosion in sewer systems</b>            Student: Katharina Teuber            BoS: Hinkelmann, Barjenbruch, TUB and Nützmann, IGB</p>
<b>N4</b>	<p><b>Ecosystem metabolism in natural and technical aquatic systems of urban environments</b>            Student: Clara Romero            BoS: Gessner, IGB &amp; TUB, Singer, IGB, Barjenbruch and Kleinschmit, TUB</p>	<b>T4</b>	<p><b>Impact of remaining wastewater constituents on interfaces in surface waters</b>            Student: Robert Ladwig            BoS: Hupfer, IGB, Geißen and Hinkelmann, TUB</p>
<b>N5</b>	<p><b>Changes in groundwater seepage due to bank filtration effecting urban lake resilience</b>            Student: Mikael Gillefalk            BoS: Hilt, Hupfer, IGB, Hinkelmann, TUB and Mooij, NIOO</p>	<b>T5</b>	<p><b>Desorption kinetics and irreversibility in applications of technical adsorbents for water treatment</b>            Student: Geert Aschermann            BoS: Jekel, TUB, Worch, TUD and Hollender, Eawag</p>
<b>N6</b>	<p><b>Retention of chemical compounds in hyporheic reactors of urban freshwater systems</b>            Student: Jonas Schaper            BoS: Nützmann, Lewandowski, IGB, Putschew, TUB and Schirmer, Eawag</p>	<b>T6</b>	<p><b>Deiodination of iodinated contrast media (ICMs) in bank filtration of urban waters</b>            Student: Fatima El-Athman            BoS: Putschew, Jekel, TUB and Adrian, UFZ</p>
<b>N7</b>	<p><b>Integral modelling approach for flow and reactive transport in groundwater-surface water interaction space</b>            Student: Tabea Broecker            BoS: Hinkelmann, TUB, Nützmann, IGB and Albers, TUB</p>		