

# Chair of Urban Water Systems Engineering

## PhD Seminar Series - Winter semester 2023-2024

**Where:** Seminar room (room# 1116) or through Zoom®

**When:** Every Monday.

**Time:** 15:00 – 16:30h.

**Attendance:** As high as possible. Please, inform us if you have issues for attending.

**Questions and issues:** Please, write an email to [jdrewes@tum.de](mailto:jdrewes@tum.de) or [i.sottorff@tum.de](mailto:i.sottorff@tum.de).

### PRESENTER LIST

Date	Presenter	Title
02.10.23	Carolina Feickert-Fenske <b>Time: 13:00h</b>	<b>PhD defense dry run:</b> Biological H <sub>2</sub> /CO <sub>2</sub> Methanation in Trickle Bed Reactors - Toward Industrial Application
13.10.23	Carolina Feickert-Fenske <b>Time: 14:00h</b>	<b>PhD defense:</b> Biological H <sub>2</sub> /CO <sub>2</sub> Methanation in Trickle Bed Reactors - Toward Industrial Application
16.10.23	Jörg Drewes / Ignacio Sottorff	<b>Introduction to the PhD seminar, our expectations and its framework.</b>
23.10.23	Matthias Steindl	Future biogas production from agricultural biomass in Bavaria – potential and limits for expansion
30.10.23	Benedikt Aumeier	Research prospects of advanced water treatment
03.11.23	Michele Ponzelli University of Girona <b>Time: 14:00h</b>	<b>PhD defense:</b> Design of hybrid nano-engineered bioprocesses for wastewater treatment
06.11.23	1. Javad Ahmadi 2. <i>In coordination</i>	Assuring the reclaimed water quality using a multi-barrier water treatment system for agricultural and urban irrigation purposes; a pilot study.  -0-
13.11.23*	Philipp Benz Felix Bachmann Wood Research Munich (HFM), TUM	Wood biotechnology.
20.11.23	1. Katrin Stüer-Patowsky 2. Felix Müller	Niche formation of fungal dark matter in wastewater treatment model reactors  Enhancement of Methane production by different Substrates

27.11.23	1. Haruka Takeuchi 2. Alexander Mitranescu	TOrC removal by a photocatalytic membrane system  Synergistic Effects of Membrane Surface Patterns and Feed Spacers on Hydrodynamics to Reduce Membrane Fouling: Experimental and Numerical Investigation
01.12.23	Julia Reichel <b>Time: 13:00h</b>	<b>PhD Defense:</b> Identification of polymer types, additives and simultaneous quantification of trace organic chemical sorption behavior on sub $\mu$ -particles in environmental samples
04.12.23*	1. Yvonne Bösch 2. Natalie Paez-Curtidor	Fungal denitrifiers in terrestrial systems. Application of biochar for improving removal of biocides and heavy metals in bioswales
11.12.23	PhD students	PhD students self-organized workshop.
18.12.23	Prof. Dr. Hans Vrouwenfelder, King Abdullah University of Science & Technology, Saudi Arabia	Understanding biofouling dynamics during high-pressure membrane applications
18.12.23	Philipp Sperle <b>Time: 15:00h</b>	<b>PhD Defense:</b> The potential of UVC-irradiation using LEDs as an ( <i>in situ</i> ) biofouling control strategy in reverse osmosis membrane systems
xx.12.23	Christian Hiller <b>Time: XX:XXh</b>	<b>PhD Defense:</b> coming soon
08.01.24	1. Sonia Kau 2. <i>In coordination</i>	Elimination of TOrCs at small scale wastewater treatment plants  -o-
15.01.24	Björn Kluge, Technical University of Berlin	Multifunctional street design of urban areas: street spaces and design options for sustainable blue-green Infrastructures
22.01.24	1. Pascal Finkbeiner 2. Johannes Winklmaier	Pre-feasibility study at the Water-Energy-Food-Nexus hub in South Africa Community survey for planning local energy infrastructure local value chain
29.01.24*	1. Jonas Aniol 2. Mariana Kluge	Employing rapid infiltration trench technology to realize controlled flow conditions to establish SMART conditions in a heterogeneous aquifer  Functional potential of aquatic fungal communities in the arctic
05.02.24	Jörg Drewes / Ignacio Sottorff	Final discussion and feedback session

\* Jörg not available