

## Preliminary Program

### Late Summer Workshop: Quality of water resources under the stress of climate change

#### Sunday 21 September

**16:30** Registration  
**19:00** Dinner  
**21:00** Late Night Presentation: Rudi Winzenbacher

#### Monday 22 September

**9:00-9:15** **Holger Lutze & Thomas Ternes**  
*Chair of Water Chemistry Society*  
Welcome opening, remarks and the Water Chemistry Society

##### Session 1 Chair: Michael Seidel

**9:15 – 10:00** **Bryan brooks: Environment, pollution, and one health**  
**10:00-10:20** Thomas Exner: Advancements and Challenges in Germany's Wastewater Surveillance: Expanding Surveillance to Zoonotic Viruses within a One Health Framework  
**10:20-10:40** Nils Keltsch: Bacterial communication as a target for reducing microbial biofilm formation  
**10:40-11:40** Coffee break and poster session

##### Session 2 Chair: Christian Zwiener

**11:40 – 12:25** **Sabrina Schiwy: Extreme weather affecting surface waters - an ecotoxicological view**  
**11:25-12:45** Mona Storms: Thermal Stress and Groundwater Fauna in Urban Aquifers: Insights from Berlin's Subsurface  
**12:45-13:05** Markus Hermann: Aquatic ecosystems under multiple stress: The Climate Change and Freshwater Biodiversity (CCFB) Research Program by Eawag and the Swiss Federal Office for the Environment (FOEN)  
**13:05-16:00** Lunch, poster session and free time

##### Session 3 Chair: Torsten Schmidt

**16:00-16:45** **Thomas Ternes: Effect of climate change on micropollutant emissions**  
**16:45-17:05** Jill A. R. Soedarso: Translating experimental data towards predictions of ionizable organic micropollutants to soil  
**17:05-17:25** Amir Mohammad Sheikh Asadi: Emissions and Control of Micropollutants from Bituminous Roof Sheets: A Pilot Study in CO-UDLabs

Dinner from 18:00 – 19:30

Afterwards come together at the water works of Langenau

## Tuesday 23.09.2025

### Session 5 Chair: Tobias Bader

- 9:00-9:45            **Heinz Singer: Decoding water pollution dynamics in climate-impacted systems using the transportable high-resolution mass spectrometry platform 'MS2field'**
- 9:45-10:05        Michael Mohr: Automated near-real time monitoring of micropollutants as an early warning system for drinking water
- 10:05-10:25       Felix Niemann : Isotopic Fingerprinting of Imidacloprid at Natural Abundance: A Novel Approach for Source Differentiation and Transformation Tracking by ESI-Orbitrap IRMS

10:25-11:35 Coffee Break

### Session 6 Chair: Sabrina Schiwy

- 11:35-12:20       **Andreas Farnleitner: Microbial pollution diagnostics and monitoring for fecal hazard- and risk assessment of water resources**
- 12:20-12:40       Yiao Liang: Innovative rapid analysis of micropollutants and pathogens controlling advanced oxidation process
- 12:40-13:00       Guining Wei: Towards Process-Guided Deep Learning for Seasonal Hazardous Algal Blooms Prediction in Freshwater Ecosystems Using High-Frequency Vertical Profiling Data

13:00-14:00 Lunch

15:00 Travel to Ulm

20:00: Dinner in Ulm

23:30: Travel back to Langenau

## Wednesday 24.09.2025

### Session 7 Chair: Holger Lutze

- 9:00-9:40:           **Eberhard Morgenroth: Integrated urban water management: Benefits of non-potable water reuse**
- 9:40-10:00        Maolida Nihemaiti Occurrence of regulated and novel disinfection by-products in a drinking water distribution network

10:00-10:20

Maximilian Werner: Investigating the effect of membrane filtration on downstream ozonation in wastewater treatment

**Session 8 Chair: Stephanie Spahr**

10:20-11:05:

**Stuart Khan: Environmentally resilient drinking water supply systems: Lessons from an Australian “Black Summer”**

11:05-11:25:

Jingyu Wang: Biochar–Calcium Peroxide Composite for Sustained Tebuconazole Removal via Adsorption and Surface-Mediated Oxidative Degradation

11:25-12:05:

Sara MRHARI DERDAG: Innovative Low-Cost and Eco-Friendly Kiln-Derived Biochar Substrate for Constructed Wetlands : Advancing Sustainable Wastewater Treatment and Reuse

12:05-12:10: Final remarks and Conclusion

End of the conference