



# Global Seminar

## Solutions for the ONE WORLD: Monitoring Chemical Pollution under Low-Capacity Settings



Chemical pollution is a global problem with regionally different composition, sources and impacts threatening water resources, human health and ecosystems. While data bases on pollution are rapidly increasing in many high-income regions such as Europe, data on chemical pollution in low- and middle-income countries in Africa, Asia and Central- and South-America are rather scarce. While analytical instrumentation and common monitoring, assessment and mitigation strategies are widely lacking, awareness on pollution problems is increasing globally with dedicated scientists and practitioners ready to address pollution problems in their countries. The current workshop aims to bring international pioneers in chemical monitoring together with a specific focus on the Global South and the establishment of a sustainable network to find solutions to pollution all over the world.

### WORKSHOP GOALS:

- 1) Initiative for a global network on monitoring, understanding and minimizing chemical pollution in the ONE WORLD.
- 2) Scientific exchange on chemical pollution, related risks and major drivers in the Global South and on needs, capacities and gaps in monitoring.
- 3) Pilot study to demonstrate the opportunities of monitoring of chemical pollution under low-capacity settings.
- 4) Initiative for a review/policy paper on the status, gaps and urgent needs in the field of monitoring, understanding and minimizing chemical pollution in the ONE WORLD.

Please note that the workshop is an on-site event with limited capacity. Registration is now closed; however, **the session presentations and keynote lecture can be followed online (link below)**. Thank you for your understanding that online participation is not available for the poster session, world café, or evening events. If you are interested in future activities on this topic, please reach out.

## EVENT INFORMATION

<b>START:</b>	Wed, 17.09.2025, 9:00	<b>ORGANISING TEAM:</b>	Prof. Dr. Saeed Albaseer, Prof. Dr. Werner Brack, Dr. Saskia Finckh, Dr. Faith Kandie, Christina Pietruska, Dr. Christian Schmidt, Dr. Naeem Shahid
<b>END:</b>	Fri, 19.09.2025, 11:00		
<b>VENUE:</b>	Helmholtz-Centre for Environmental Research UFZ Permoserstr. 15 04318 Leipzig Germany	<b>CONTACTS:</b>	werner.brack@ufz.de christina.pietruska@ufz.de

**MEETING LINK:** <https://ufz-de.zoom-x.de/j/62521779564?pwd=DVZQ9E3cOaa7tJUMlhiojZVsoyzi2g.1>

## AGENDA DAY 1 – Wednesday, 17.09.2025

09:00	Welcome: Introduction to the aims of the workshop, including the agenda   30 min
<b>SESSION 1: CURRENT STATUS OF CHEMICAL POLLUTION IN COUNTRIES OF THE GLOBAL SOUTH</b>   Chair: Werner Brack	
09:30	The National Surface Water Monitoring Plan and other pollutant monitoring initiatives in Costa Rica   <a href="#">Silvia Echeverría Sáenz</a>
09:45	Aquatic Chemical Pollution in Sierra Leone: Current Status, Challenges, and Future Prospects   <a href="#">Ishmail Sheriff</a>
10:00	Status of Organic Micropollutants in Sri Lanka   <a href="#">Keerthi Guruge</a>
10:15	Discussion   15 min
10:30	Coffee Break   30 min
<b>SESSION 2: CHEMICAL AND NUTRIENT POLLUTION IN FRESHWATERS – CASE STUDIES FROM COUNTRIES OF THE GLOBAL SOUTH</b>   Chair: Christian Schmidt	
11:00	Prevalence of Bisphenol Analogues in surface water and sediment of Chenab River, Pakistan   <a href="#">Abdul Qadir</a>
11:15	Assessment of industrial pollutants in the water bodies of Chennai   <a href="#">Indumathi Nambi</a> (virtual)
11:30	Case study Western Kenya   <a href="#">Faith Kandie</a>
11:45	Discussion   15 min
12:00	Lunch Break   60 min
13:00	<b>POSTER SESSION</b>   90 min (no option for virtual participation)
<b>SESSION 3: POLLUTION BY INSUFFICIENT WASTEWATER TREATMENT AND INNOVATIVE SOLUTIONS</b>   Chair: Faith Kandie	
14:30	Active biomonitoring of PFAS in two areas of Sao Paulo, Brazil marine coast using hemolymph of the amphipod <i>Parhyale hawaiiensis</i>   <a href="#">Gisela Umbuzeiro</a>
14:45	Impact of abattoir effluent on New Calabar River, Port Harcourt, Nigeria   <a href="#">Chioma Blaise Chikere</a>
15:00	Using Recycled Plastic Waste for the Water Treatment   <a href="#">Muhammad Umer Shafique</a>
15:15	Discussion   15 min
15:30	Coffee Break   30 min
<b>SESSION 4: SCIENCE POLICY ACTIVITIES RELATED TO THE MONITORING AND MANAGEMENT OF CHEMICAL POLLUTION</b>   Chair: Saskia Finckh	
16:00	Not in the Data, Not on the Agenda: The Hidden Crisis of Water Quality   <a href="#">Anham Salyani</a>
16:15	Laws and Policies Addressing Chemical Pollution in Kenya: Trends and Challenges   <a href="#">Clarice Wambua</a>
16:30	Water quality monitoring and management in the Nile Basin countries   <a href="#">Jean Namugize</a>

16:45 Discussion | 15 min

**Virtual Participation: Day 1 has ended**

## AGENDA DAY 2 – Thursday, 18.09.2025

09:00 Welcome: Recap of day 1, including World Café topics | 15 min

**SESSION 5: BEYOND WATER QUALITY ASSESSMENT: POLLUTION MONITORING IN DIFFERENT ENVIRONMENTAL COMPARTMENTS** | Chair: Naeem Shahid09:15 PFAS Contamination in Underserved Regions: Environmental and Exposure Insights from Ghana and Suriname | [Arundhati Tewari](#)09:30 Silent Streams, Toxic Legacy: Tracing Organochlorine Pesticides (OCPs) and Polychlorinated Biphenyls (PCBs) in Sediment and Fish from Central Ethiopia | [Alemnew Berhanu Kassegne](#)09:45 Field-Based Monitoring of marine Pollutants under low-capacity settings: A Case from the Gulf of Kachchh and Gulf of Khambhat, Western India | [Jayanthi Ganapathi](#)

10:00 Discussion | 15 min

10:15 Coffee Break | 30 min

**SESSION 6: BIOMONITORING AND HUMAN HEALTH ASSESSMENT** | Chair: Arundhati Tewari10:45 Contamination and Health Risk Assessment of Elements in Soils from a Gold Mining District, Ghana | [Lilian Sarpong](#)11:00 Air quality biomonitoring in Minas Gerais, Brazil: perspectives from a case study in Brumadinho | [Maria Clara Starling](#) (virtual)11:15 Developing International Biospecimen Collection for Children's Environmental Health | [Kyungho Choi](#)

11:30 Discussion | 15 min

11:45 Lunch Break | 60 min

12:45 **WORLD CAFÉ** | 120 min (no option for virtual participation)14:45 **KEYNOTE:** A South African perspective on the application of effect-based methods (EBM) for water quality and safety | [Natalie Aneck-Hahn](#)

15:15 Coffee Break | 30 min

**SESSION 7: ASSESSING CHEMICAL FOOTPRINTS ON GLOBAL FRESHWATER RESOURCES: METHODS AND CASES** | Chair: Saeed Albaser15:45 Mapping chemical footprints in Europe | [Saskia Finckh](#)16:00 Hydrological informed monitoring | [Christian Schmidt](#)

- 16:15 Case study Lahore, Pakistan | [Naeem Shahid](#)
- 16:30 Modeling the Seasonal Dynamics of Nutrient Export to Lake Tana, Upper Blue Nile Basin | [Goraw Goshu](#)
- 16:45 Discussion | 15 min
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**Virtual Participation: Day 2 has ended**

## AGENDA DAY 3 – Friday, 19.09.2025

- 09:00 **PILOT STUDY:** Goals, sampling, methods and next steps | 60 min | [Isaac Tanui](#), [Faith Kandie](#), [Martin Krauss](#)
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- 10:00 **DISCUSSION:** Future campaigns, network perspectives, funding and visions | 60 min
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**Virtual Participation: Day 3 has ended**