

# 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.
- 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.

In preparation for the meeting, participants are invited to (i) take part in a low-effort pilot study involving water sampling, and (ii) complete a questionnaire about the possibilities for water quality monitoring in their home country, using the following link: <a href="https://forms.gle/npSbzhrerR2jbd1b7">https://forms.gle/npSbzhrerR2jbd1b7</a> Please complete the questionnaire by Sunday, 14.09.2025.

#### **EVENT INFORMATION**

**CHECK-IN:** Wed, 17.09.2025, 8:30-9:00

Germany

**ORGANISING TEAM:** 

Prof. Dr. Saeed Albaseer, Prof. Dr.

Fri, 19.09.2025, 15:00 Werner Brack, Dr. Saskia Finckh,
Dr. Faith Kandie, Christina

Pietruska, Dr. Christian Schmidt,

Dr. Naeem Shahid

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**MEETING LINK:** 

**END:** 

**VENUE:** 

https://ufz-de.zoom-x.de/j/62521779564?pwd=DVZQ9E3cOaa7tJUMLhiojZVsoyzj2g.1

## AGENDA DAY 1 – Wednesday, 17.09.2025

08:30	Check-in: Coffee & Arrival
09:00	Welcome: Introduction to the aims of the workshop, including the agenda   15 min
	SESSION 1: CURRENT STATUS OF CHEMICAL POLLUTION IN COUNTRIES OF THE GLOBAL SOUTH   Chair: Werner Brack
09:15	The National Surface Water Monitoring Plan and other pollutant monitoring initiatives in Costa Rica   Silvia Echeverría Sáenz
09:30	Aquatic Chemical Pollution in Sierra Leone: Current Status, Challenges, and Future Prospects   Ishmail Sheriff
09:45	Status of Organic Micropollutants in Sri Lanka   Keerthi Guruge
10:00	Discussion   15 min
10:15	Coffee Break   30 min
	SESSION 2: CHEMICAL AND NUTRIENT POLLUTION IN FRESHWATERS – CASE STUDIES FROM COUNTRIES OF THE GLOBAL SOUTH   Chair: Christian Schmidt
10:45	Prevalence of Bisphenol Analogues in surface water and sediment of Chenab River, Pakistan   Abdul Qadir
11:00	Assessment of industrial pollutants in the water bodies of Chennai   Indumathi Nambi
11:15	Modeling the Seasonal Dynamics of Nutrient Export to Lake Tana, Upper Blue Nile Basin   Goraw Goshu
11:30	Discussion   15 min
11:45	Lunch Break   60 min
12:45	POSTER SESSION   90 min
	SESSION 3: POLLUTION BY INSUFFICIENT WASTEWATER TREATMENT AND INNOVATIVE SOLUTIONS   Chair: Faith Kandie
14:15	Active biomonitoring of PFAS in two areas of Sao Paulo, Brazil marine coast using hemolymph of the amphipod Parhyale hawaiensis   Gisela Umbuzeiro
14:30	Impact of abattoir effluent on New Calabar River, Port Harcourt, Nigeria   Chioma Blaise Chikere
14:45	Using Recycled Plastic Waste for the Water Treatment   Muhammad Umer Shafique
15:00	Discussion   15 min
15:15	Coffee Break   30 min
	SESSION 4: SCIENCE POLICY ACTIVITIES RELATED TO THE MONITORING AND MANAGEMENT OF CHEMICAL POLLUTION   Chair: Saskia Finckh
15:45	Not in the Data, Not on the Agenda: The Hidden Crisis of Water Quality   Anham Salyani

16:00	Laws and Policies Addressing Chemical Pollution in Kenya: Trends and Challenges   Clarice Wambua
16:15	Water quality monitoring and management in the Nile Basin countries   Jean Namugize
16:30	Discussion   15 min
16:45	Identification of topics for the World Café discussions on the following day   15 min
17:00	Break   60 min
18:00	City tour and dinner (Auerbach's Keller)

#### **END OF DAY 1**

### AGENDA DAY 2 – Thursday, 18.09.2025

08:30	Coffee & Arrival
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 Shahid
09:15	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 Tewari
10:45	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
11:15	Developing International Biospecimen Collection for Children's Environmental Health   Kyungho Choi
11:15 11:30	Developing International Biospecimen Collection for Children's Environmental Health

12:45	WORLD CAFÉ   120 min (collaborative discussion rounds on preselected topics)
14:45	<b>KEYNOTE:</b> 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 Albaseer
15:45	Mapping chemical footprints in Europe   Saskia Finckh
16:00	Hydrological informed monitoring   Christian Schmidt
16:15	Case study Western Kenya   Faith Kandie
16:30	Case study Lahore, Pakistan   Naeem Shahid
16:45	Discussion   15 min
17:00	Lab Tour (optional)   90 min
18:30	Break   60 min
19:30	Dinner (Ratskeller Leipzig)

#### **END OF DAY 2**

### AGENDA DAY 3 - Friday, 19.09.2025

08:30	Coffee & Arrival
09:00	PILOT STUDY: Goals, sampling, methods and next steps   60 min   Isaac Tanui, Faith Kandie, Martin Krauss
10:00	<b>DISCUSSION:</b> Future campaigns, network perspectives, funding and visions   90 min
11:30	<b>EXCURSION*:</b> Hiking trip to the Leipziger Auwald (from Schkeuditz to Domholzschänke, where we will have lunch)
15:00	Return to the city center

#### **END OF THE EVENT**

<sup>\*</sup>NOTE EXCURSION: We will explore the wild nature in the Leipzig floodplain "jungle" on a short hike of about 2 hours. We recommend bringing hiking shoes, long robust trousers and long-sleeved tops to protect against scratching plants and mosquitos. Depending on the weather (please check the forecast), you may also need need waterproof clothing to protect against the rain.