

# International Symposium on Management of Emerging Pollutants in Water and Waste

## Organizers:

- Department of Environmental Engineering, Graduate School of Engineering, Kyoto University
- Graduate School of Global Environmental Studies, Kyoto University
- Kyoto University On-site Laboratory, Kyoto University – Tsinghua University Cooperative Research and Education Center for Environmental Technology (CRECET)

## Co-Organizers:

- The Sakura Invitation Program (JST) with the title: "Integration of Science and Technology for the Solution of Environmental Pollutants in the Mining Area in Botswana".
- Research Project of Innovative Circular Resource System Engineering, Kyoto University
- Environment Research and Technology Development Fund (JPMEERF21S11930) of the Environmental Restoration and Conservation Agency of Japan

**Date and Time:** September 13, 13:00-17:15 (JST)

**Venue:** Kyoto University Katsura campus, C1 building, 3F, Room Jin-Yu,  
Zoom online (Hybrid)

## Registration Fee

There is no registration fee to attend the symposium. Symposium dinner fees will be collected at reception.



## **Program:**

**13:00-13:10** *Opening remarks* (Prof. Taku Fujiwara)

**13:10-13:40** *One health approach in environmental engineering* (Associate Prof. Aneta Łuczkiwicz, Gdańsk University of Technology)

**13:40-14:10** *Fiber optic sensors for waste water monitoring* (Associate Prof. Małgorzata Szczerska, Gdańsk University of Technology)

**14:10-14:30** *Energy crops as phytoremediation agents for heavy metal contaminants in fly ash dump sites* (Katumelo Gajaje, 4th year PhD student, BIUST, Botswana)

**14:30-14:50** *Influence of perennial grass hyperaccumulators on the rhizosphere's chemical properties and heavy metal speciation* (Gorata Diboko, 2nd year Msc student, BIUST, Botswana)

### **Coffee break**

**15:10-15:40** *Behavior of Microplastics in Wastewater Treatment Plants throughout Japan* (Associate Prof. Shuhei Tanaka, Kyoto University) **online**

**15:40-16:00** *The distribution of microplastics in the freshwater system in Botswana* (Assistant Prof. Sylwia-Izabela OLESZEK, Kyoto University)

**16:00-16:20** *Development of a rotating advanced oxidation contactor for removing trace organic contaminants from real wastewater* (Assistant Prof. Youhei Nomura, Kyoto University)

**16:20-16:40** *PPCPs degradation and byproducts formation during ammonia/chlorine oxidation process* (Assistant Prof. Ye BEI, Kyoto University/Tsinghua University)

**16:40-17:10** *Characterization and prediction of disinfection byproducts from anthropogenic compounds* (Prof. Shinya Echigo, Kyoto University)

**17:10-17:15** *Closing remarks* (Prof. Shinya Echigo)

### **Symposium Dinner:**

**Application form** (Deadline, for those attending the dinner: September 8, 12:00 JST; for others: September 13, 10:00 JST)

<https://forms.gle/Cjrch7XQYqhJ7V25A>