



UFZ-Seminar „Water and Environment“

6. December, 1 pm

Seminar Room 1, Brückstr. 3a, Magdeburg or

<https://ufz-de.zoom.us/j/6831992537?pwd=VXZFSmF3ZDZ3ckJ0dEUxNUQzSHR6QT09>

Stefan Stolte, Institute of Water Chemistry, TU Dresden, will give a talk on

A small insight into the research of the Institute for Water Chemistry:

Environmental hazard assessment of Organic Hydrogen Carriers, UV filter and fibrous microplastic

Water and environmental protection is the overarching goal of the research and teaching activities at the Institute of Water Chemistry (TU Dresden).

The occurrence, properties and (environmental) behavior of chemicals and materials that are predominantly anthropogenically introduced into the water cycle are investigated. In addition, research is conducted on concepts for drinking water and wastewater treatment in order to safely and efficiently remove such trace substances from water.

Another research focus at the institute is the anticipatory assessment and prevention of potential new pollutants. In close cooperation with partners from industry, potential hazards of new chemicals are prospectively identified, evaluated and optimized with respect to higher intrinsic safety and sustainability. If conflicts between technological requirements and environmental hazards cannot be resolved by the "benign by design" approach, (wastewater) concepts are developed to avoid or minimize environmental exposure.

In this presentation these approaches are applied using the case studies of liquid organic hydrogen carriers, benzophenone type UV filter and fibrous microplastic