



The 9<sup>th</sup> IAHS Conference on Groundwater Quality

# **Safeguarding Groundwater Quality in a Changing World**

## **Abstract Book**



July 24–28, 2016

Shenzhen·China



**SUSTech** | School of  
Environment

# Re-thinking stressor interactions: The role of groundwater contamination impacting stream ecosystems

---

Ursula Mcknight<sup>1</sup>, Anne Sonne<sup>1</sup>, Vinni Ronde<sup>1</sup>, Jes Rasmussen<sup>2</sup>, Walter Traunspurger<sup>3</sup>, Sebastian Höss<sup>4</sup>, Poul Bjerg<sup>1</sup>

<sup>1</sup> Technical University of Denmark/Department of Environmental Engineering, Denmark

<sup>2</sup> Aarhus University/Department of Bioscience, Denmark

<sup>3</sup> University of Bielefeld/Department for Animal Ecology, Germany

<sup>4</sup> Ecosa, Germany

Corresponding Author E-mail: [usmk@env.dtu.dk](mailto:usmk@env.dtu.dk)

---

**Abstract:** Streams are significantly impacted by a large number of micropollutants and their transformation products (e.g. pharmaceuticals, chlorinated solvents, pesticides/biocides, nutrients, heavy metals). leading to a severe degradation of essential ecological functions and services. The large diversity of compounds and their sources makes the quantification

of their occurrence and toxicity a challenging task. Conventionally, chemical impacts to ecosystems are assessed one compound/group of compounds or one source type at a time. We presume this will give us a good indication of the impact of a particular stressor. Our hypothesis, however, is that this will underestimate the combined impact caused by



上田环境

**ThermoFisher**  
SCIENTIFIC

**Waters**  
THE SCIENCE OF WHAT'S POSSIBLE.™

雷尼绍 **RENISHAW**  
apply innovation™

南方科技大学 环境科学与工程学院  
地址：深圳市南山区学苑大道 1088 号

SUSTech|School of Environment  
Address: No 1088,xueyuan Rd., Xili, Nanshan District,  
Shenzhen, Guangdong, China

邮编：518055  
电话：0755-88010821  
传真：0755-88010822  
网址：<http://www.sustc.edu.cn/ese>

Postcode: 518055  
Tel: 0755-88010821  
Fax: 0755-88010822  
Web: <http://www.sustc.edu.cn/ese>