

Marine environmental chemistry and toxicology

Session Chairs: Katrine Borgå and Anders Ruus

The world oceans cover 71% of the surface of the earth, thus the marine environment is a huge recipient of various environmental chemicals. Knowledge regarding exposure and accumulation of these chemicals is of paramount importance for understanding and predicting fate and effects of marine environmental contaminants, including the interaction of parameters such as marine chemistry of dissolved organic matter, run off from land, nutrient cycling, trophic relationships etc. Studies on these aspects from coastal areas are particularly welcome.

The EU has given important and ambitious directives giving way for a more comprehensive and coordinated management of the aquatic environment: The water framework directive (Directive 2000/60/EC), and the Marine Strategy Framework Directive (Directive 2008/56/EC). The aim is to ensure the protection and sustainable use of the aquatic environment, and if necessary to implement mitigating measures to ensure good environmental status of water bodies, as management of water must be coherent from mountain to fjord. The data we request for this session will be welcome contributions in this regard.

We would like to invite presentations on exposure and accumulation of contaminants related to:

- Contaminants in the marine ecosystem of terrestrial origin
- Micro- and nanoplastics/materials
- Spatial and temporal trends in emerging contaminants in marine coastal and open waters
- Interacting multiple stressors in the coastal environment
- How to monitor marine contaminants to comply with EU guidelines and quality standards.

If you know of other colleagues who may be interested in submitting to and/or attending this session and the conference, please feel free to forward this document to them.

You can address your questions about this session to us.

We hope to see you in Oslo!

Sincerely,

Katrine Borgå and Anders Ruus