

Subject: Submit an abstract to ICCE 2017: Session “Humic Substances in the Environment”

Dear colleagues,

We are pleased to invite you to submit an abstract to present your research in the session on “Humic Substances in the Environment” at the International Conference on Chemistry and the Environment (ICCE 2017) (<http://icce2017.org> <<http://icce2017.org>>). The conference will be held in Oslo, Norway, from 18th June to 22nd June, 2017. The deadline for abstracts is April 17st, and early-bird registration is May 10th, 2017 (http://icce2017.org/abstract_submission/).

Humic Substances in the Environment

Humic substances (HS) are complex heterogeneous mixtures of polydispersed materials formed in soils, sediments, and natural waters by biochemical and chemical reactions during the decay and transformation of plant and microbial remains (a process called humification). Plant lignin and its transformation products, polysaccharides, melanin, cutin, proteins, lipids, nucleic acids, fine char particles, etc., are involved in most biogeochemical processes in soils and natural waters. The huge number of possible HS substances makes the identification difficult and from the quantitative point of view almost impossible. Therefore the term HS as the refractory part of natural organic matter (NOM) is often used for an integrative description.

Soil weathering and provision of plant nutrition are among the most important processes HS are involved in. Moreover, HS play a key role in pH buffering, in mobility and bioavailability of trace metals, degradation and transport of hydrophobic organic chemicals, and heterotrophic production in blackwater ecosystems. In the same context, HS are determinant in photochemical and redox processes, in the formation of disinfection by-products during water treatment, as well as on the environmental behavior and impact of nanomaterials.

Accordingly, HS and NOM have received attention from scientists in a wide variety of disciplines. We would like to invite contributions on HS and NOM in the environment related to:

- Characterization: Novel methods and approaches for molecular understanding
- Physico-chemical aspects: Its mobility and transport and mediated transport of contaminants, as well as effects on photochemical and redox processes
- Transformation in natural and in technological processes
- Biological aspects
- Ecological aspects and genesis
- Application: Agricultural practices, composting and remediation
- Environmental chemistry of nanomaterials

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 e-mail to them.

We hope to see you in Oslo!

Sincerely,

Rolf David Vogt

Dag Olav Andersen, Coordinator of the Nordic-Baltic Chapter of IHSS

Gudrun Abbt-Braun, President of the International Humic Substances Society (IHSS)