



# Fundamental Chemical Processes Common to Dissolved Organic Matter and Atmospheric Organic Aerosols

American Chemical Society meeting in San Diego, August 25 – 29, 2019  
Meeting Theme “**Chemistry & Water**”

**About this symposium:** This symposium seeks to bring environmental and atmospheric scientists together to help bridge the topics of aquatic chemistry and aerosol chemistry. The field of aquatic chemistry seeks to understand the properties of dissolved organic matter capable of degrading pollutants, particularly in the context of water treatment. On the other hand, the field of aerosol chemistry seeks to understand the properties of organic aerosol capable of impacting climate through aerosol-radiation and aerosol-cloud-radiation interactions. Both fields have similar goals of characterizing organic matter whether it be in lakes, rivers and oceans or in the atmosphere but rarely come together to share techniques, sampling protocols and chemical insights. This symposium, which is directly relevant to the Chemistry of Water theme, will cover recent advances in the cross-disciplinary areas of aquatic chemistry and of aerosol chemistry focused on the aqueous-phase reactions of aerosols and environmental interfaces, and their roles in climate forcing and health issues. Topics of particular interest include photochemistry, pollutant fate experiments and modeling, oxidant quantification, pH, gas-liquid partitioning, chemical mechanisms, among others. The symposium will gather field and laboratory researchers, environmental engineers, aerosol scientists, and atmospheric modelers with the goal of discussing emerging research in chemistry of organic matter both in the aquatic and aerosol phases.

## Co-organizers:

Dr. Nadine Borduas-Dedekind, Department of Environmental Science Systems, ETH Zurich, [nadine.borduas@usys.ethz.ch](mailto:nadine.borduas@usys.ethz.ch)

Dr. Sergey Nizkorodov, Department of Chemistry, University of California, Irvine, [nizkorod@uci.edu](mailto:nizkorod@uci.edu)

**Submit your abstract by the March 18th deadline at <http://abstracts.acs.org>**

## Other Relevant Symposia of Interest at This ACS meeting:

In addition to our symposium, there will be many interesting parallel symposia, with selected examples listed below. The theme of this ACS meeting is “Chemistry & Water”, so if you are in the aqueous chemistry research field this ACD meeting is definitively the conference to go to this year.

- *Physical Chemistry of the Atmosphere* (PHYS Division)
- *Water in the Universe* (PHYS Division)
- *Chemistry & Applications of Free Radical-based Technologies for Water Treatment & Purification* (ENVR Division)
- *Chemistry of Water Reuse Processes toward Water Sustainability* (ENVR Division)
- *Emerging Contaminants in Wastewater* (ENVR Division)
- *Water in the Solid State: Reactions & Interactions with Impurities* (ENVR Division)
- And many, many more!