



American Chemical Society

CALL FOR PAPERS

## The Influence of Natural Organic Matter on the Fate and Transport of Metals, Colloids, and Nanoparticles in Aquatic Systems

Sponsored by the Division of Environmental Chemistry

Co-sponsored by the Division of Geochemistry

239th American Chemical Society (ACS) National Meeting & Exposition

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Abstract Deadline: **October 19, 2009**

Improved understanding of the geochemistry, fate and transport of metals, colloids and engineered nanoparticles is critical for assessing the ecological and human health impacts associated with these materials. Macromolecular organic matter such as humic substances and small molecular weight organics are ubiquitous in water, soil and sediment environments. Thus, natural organic matter frequently controls metal speciation and surface charge of particles, influences sorption interactions with mineral surfaces and drives important reactions (e.g. redox and photochemical reactions) governing the behavior of metals, colloids, and nanoparticles in aquatic systems.

In this session we will focus on studies addressing the nature of chemical interactions between natural organic matter and metals (mercury, in particular), colloids and nanoparticles (both engineered and natural) and the influences these reactions have on the transport, bioreactivity, and geochemistry of these materials in the environment.

Contributing authors will be invited to submit a full manuscript for peer-review and publication in a special issue of *Environmental Science & Technology* with the same theme. The anticipated manuscript submission deadline is August 1, 2010.

Please submit your abstracts using (<http://abstracts.acs.org>). All other inquiries should be directed to the symposium organizers:

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