CALL FOR PAPERS

MICROBIALLY MEDIATED REDOX DYNAMICS IN THE SHALLOW SUBSURFACE

Co-Sponsored by

ACS Division of Environmental Chemistry
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Microbial activity, in conjunction with inputs of organic carbon and oxidants into soils and sediments, controls the redox state of shallow subsurface environments. Redox fluctuations caused by temporal variations in organic carbon and oxidant infiltration can have a critical impact on the redox chemistry of iron minerals and thereby strongly influence the fate, speciation, and transport of the wide array of natural and contaminant compounds whose behavior is linked to the biogeochemical Fe cycle. This symposium will focus on the effects of redox fluctuations on iron mineral geochemistry, the microbial redox cycling of Fe(II)/Fe(III) under aerobic and anaerobic conditions, biogeochemical interactions of Fe(II) and oxidized N species, and the role of biogenic iron minerals in the transformation of pollutants.

We welcome papers for oral or poster presentations dealing with relevant topics such as the effects of sediment redox fluctuations on Fe mineral geochemistry, biogeochemical and microbiological aspects of Fe and N redox interactions, and pollutant transformation reactions such as abiotic reduction of nitrite, reductive dechlorination of chlorinated organic compounds, and reduction of toxic metals and radionuclides by microbially-reduced Fe minerals.

Presenters are required to submit a short abstract to the ACS by **April 1, 2006** using the ACS online system (OASYS) at http://oasys.acs.org/. The Division of Environmental Chemistry also requires that an extended abstract of two to four pages that be submitted to a symposium organizer by **April 15, 2006** using the sample format posted on the web at http://envirofacs.org. Please send by e-mail extended abstracts as attachments in MS Word or PDF file formats to one of the organizers. Please label the abstract file with the ACS abstract number and first author's last name.

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