



AMERICAN CHEMICAL SOCIETY

DIVISION OF ENVIRONMENTAL CHEMISTRY

CALL FOR PAPERS

FRONTIERS IN WATER REUSE: DETECTION, ADVANCED TREATMENT AND ENVIRONMENTAL FATE OF CONTAMINANTS OF EMERGING CONCERN

Division of Environmental Chemistry
237th American Chemical Society National Meeting & Exposition
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Salt Lake City, Utah

The dwindling supply of water suitable for human consumption is a global crisis demanding that current and future generations develop sustainable water practices. Paramount to water sustainability are water reclamation and reuse strategies, ranging from the direct application of treated wastewater effluent for agricultural or landscape irrigation to its use in recharging underground drinking water aquifers (so-called indirect potable reuse). A growing number of wastewater-derived contaminants including veterinary and human antibiotics, prescription drugs, personal care products, and natural and synthetic hormones can be detected in surface waters and groundwater. As a result of the uncertainty surrounding their environmental persistence and the risks associated with their occurrence, these emerging classes of wastewater-derived contaminants have established themselves at the forefront of the growing debate over the long-term viability of water reuse strategies, particularly the utilization of wastewater effluent for indirect potable reuse.

This session will present research concerning (i) the development and implementation of analytical methods to identify chemical contaminants of emerging concern in reclaimed water, (ii) the transformation of contaminants during traditional water treatment operations, (iii) the environmental fate and ecotoxicological risks associated with persistent contaminants or degradation products upon reintroduction into the environment after treatment, and (iv) the development of innovative and sustainable strategies that can be used as alternatives when traditional treatment approaches prove ineffective.

Presenters are required to submit a short abstract by October 20, 2008 using the ACS online system (OASYS) at <http://oasys.acs.org/>. The Environmental Chemistry division also requires an extended abstract of two or more pages that also must be submitted via OASYS by October 20, 2008 according to the instructions posted at <http://envirofacs.org>. Please feel free to contact the symposium organizers with any questions.

Symposium organizers:

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