

## CALL FOR PAPERS

### **Environmental Applications and Implications of Nanotechnology**

Sponsored by the Division of Environmental Chemistry  
240th American Chemical Society (ACS) National Meeting & Exposition  
Boston, Massachusetts  
August 22-26, 2010

The increasing utilization of engineered nanomaterials (ENMs) in consumer goods will inevitably result in the release of these nanomaterials into natural and engineered aquatic systems. Recent studies have shown that several ENMs exhibit toxic effects on fish, bacteria, and human cells, thus raising concerns on the impacts of the nanomaterials on the environment and human health. Despite these concerns, the use of ENMs for environmental applications such as groundwater remediation, water and wastewater treatment, and environmental sensors, continues to attract much attention. Due to the unique properties of ENMs (e.g., chemical reactivity, electronic properties, photochemical properties, and antimicrobial activity), the potential for their application in environmental remediation and water purification is immeasurable.

The goal of this symposium is to keep the researchers in our field updated on the current research progress in environmental nanotechnology. The symposium will encompass areas which include, but are not limited to, (1) fate, transport, and reactivity of ENMs; (2) biological uptake and toxicity of ENMs; (3) “greener” design of nanomaterials; (4) effects of nanomaterial exposure on microbial diversity; (5) utilization of nanotechnology for environmental and water purification applications; and (6) sustainability of environmental nanotechnology.

Invited speakers include Pedro Alvarez (Rice), Menachem Elimelech (Yale), Howard Fairbrother (Johns Hopkins), Vicki Grassian (University of Iowa), Michael Hoffmann (Caltech), Jaehong Kim (Georgia Tech), and Younan Xia (Washington University in St. Louis).

***Five graduate students will be presented the Best Presentation Awards of \$100 each, kindly sponsored by Q-Sense.***

Please submit your abstracts using PACS (<http://abstracts.acs.org>). **Graduate students:** Note your student status in the “Comments to Organizers” field on the abstract submission form. PACS opens for abstract submissions on 1/25/2010 and closes 3/22/2010. Any other inquiries should be directed to the organizers:

Dr. Kai Loon Chen  
Department of Geography and Environmental  
Engineering  
Johns Hopkins University  
[kailoon.chen@jhu.edu](mailto:kailoon.chen@jhu.edu)

Dr. Young-Shin Jun  
Department of Energy, Environmental and  
Chemical Engineering  
Washington University in St. Louis  
[ysjun@seas.wustl.edu](mailto:ysjun@seas.wustl.edu)

Dr. Chad Vecitis  
School of Engineering and Applied Sciences  
Harvard University  
[vecitis@seas.harvard.edu](mailto:vecitis@seas.harvard.edu)

Dr. April Gu  
Department of Civil and Environmental  
Engineering  
Northeastern University  
[april@coe.neu.edu](mailto:april@coe.neu.edu)