

National Water Research Institute

June 8, 2011 E-Newsletter

Preliminary Program Available for the “IWA Specialty Conference on Natural Organic Matter”

The preliminary program for the Fourth International Water Association (IWA) Specialty Conference on “Natural Organic Matter: From Source to Tap and Beyond” is now available online at www.regonline.com/NOM2011 (please click on the “Program” tab).

The conference will be held July 27-29, 2011, in Costa Mesa, California. It is being organized by:

- International Water Association
- Urban Water Research Center at the University of California, Irvine
- National Water Research Institute
- Southeast Environmental Research Center, Florida International University
- University of California Office of the President
- Water Science Institute at Cranfield University

Sponsors include:

- Ahlstrom Filtration LLC
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- Orange County Water District
- National Science Foundation
- Trojan Technologies
- University of California Center for Hydrologic Modeling
- U.S. Environmental Protection Agency
- Ushio America, Inc.
- Water Research Foundation

Altogether, the conference will feature 200 presentations, representing research efforts from over 25 countries, including the United States, China, Germany, Australia, Saudi Arabia, and many others.

Highlighted speakers include:

- **Gary Amy**, Director of the Water Desalination and Reuse Center, King Abdullah University of Science and Technology (KAUST) in Saudi Arabia
- **Auguste Bruchet**, Expert in Analytical Chemistry at CIRSEE-Suez Environment in France
- **Stuart Krasner**, Principal Environmental Specialist at the Metropolitan Water District of Southern California
- **Madjid Mohseni**, Professor at the University of British Columbia in Canada
- **Felicity Roddick**, Professor at RMIT University in Melbourne, Australia
- **Paul Westerhoff**, Professor at Arizona State University
- And many others.

In addition, more than a third of the presentations will be given by student speakers, who represent novel research at universities from around the world.

The purpose of the conference is to better understand the dynamics and impacts of natural organic matter (NOM) in drinking water, wastewater, recycled water, natural water, and marine systems. It will provide a comprehensive examination of the issues dealing with NOM from a historical standpoint, as well as delve into the forefront of new methodologies for characterizing NOM.

Topics of interest include:

- Control strategies for NOM removal in water treatment processes.
- Advances in membrane processes for water and wastewater treatment.
- The formation of disinfection byproducts.
- Water management and sustainability.
- Wetland and coastal water carbon cycling.
- Impacts on ecological drivers and biogeochemical processes.
- Potential effects of land use and climate change.

Of special note are the conference keynote speakers, who include:

- **Dr. Philip Singer**, Professor Emeritus at the University of North Carolina at Chapel Hill, will speak on "Fifty Years of Research on Dissolved Organic Material and Drinking Water (1960-2010)."
- **Dr. Susan D. Richardson**, Research Chemist at the U.S. Environmental Protection Agency, National Exposure Research Laboratory, will speak on "The Next Generation of Drinking Water Disinfection Byproducts: Occurrence, Formation, and Toxicity."
- **Priv. Doz. Dr. Philippe Schmitt-Kopplin**, Head of the Department of BioGeoChemistry and Analytics at Helmholtz Zentrum München, German Research Center for Environmental Health, will speak on "Environmental Metabolomics: An Integrated Bio-Geo-Analytical Approach to Unravel Natural Organic Matter on a Molecular Level."
- **Dr. Norbert Hertkorn**, of the Department of BioGeoChemistry and Analytics at Helmholtz Zentrum München, German Research Center for Environmental Health, will speak on "Natural Organic Matter and Our Current Capacity to Depict Molecular Dissimilarity in Complex Mixtures."

The conference will also include an optional tour to the Groundwater Replenishment (GWR) System at the Orange County Water District in Fountain Valley, California. The GWR System is one of the most distinguished water reuse projects in the world, having received numerous awards, including the Stockholm International Industry Water Award. It removes NOM from wastewater using microfiltration and reverse osmosis treatment processes.

The early registration deadline for the conference is **June 24, 2011**. IWA members have a discounted conference rate. For more information or to register, please visit the conference website at www.regonline.com/NOM2011.

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