

# National Water Research Institute

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## **Featured Keynotes at the “IWA Specialty Conference on Natural Organic Matter”**

Four keynote presenters, representing expertise from the United States and Europe, will be featured at the 2011 IWA Specialty Conference on “Natural Organic Matter: From Source to Tap and Beyond,” the fourth in a series of international conferences devoted to better understanding the dynamics of natural organic matter (NOM) in drinking water, wastewater, recycled waters, natural waters, and marine systems.

The conference is being organized by the International Water Association (IWA), Urban Water Research Center at the University of California Irvine, and NWRI. It will be held **July 27-29, 2011**, in Costa Mesa, California.

### **Keynote Presentations**

One of the highlights of the conference is that it will include plenary sessions with the following keynote speakers:

- **Dr. Philip Singer**, the Daniel A. Okun Distinguished Professor of Environmental Engineering, University of North Carolina at Chapel Hill, will speak on *“Fifty Years of Research on Dissolved Organic Material and Drinking Water (1960-2010).”*

A major focus of research over the past 50 years has been directed at characterizing the physical-chemical properties of dissolved organic material (DOM), and understanding how these properties impact the removal of DOM during drinking water treatment. Since the discovery of disinfection byproducts (DBPs), research on the structural composition and reactivity of DOM has been undertaken. This presentation will review various aspects of research linking DOM and drinking water quality.

- **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.”*

NOM serves as a primary precursor in the formation of DBPs, but recent research has revealed that anthropogenic contaminants can also enter source water and react with disinfectants to form toxicologically important DBPs in drinking water. In addition, other routes of exposure besides ingestion are being recognized as important.

- **Priv. Doz. Dr. Philippe Schmitt-Kopplin**, 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.”*

This presentation will focus on the application of Ion Cyclotron Resonance Fourier Transform Mass Spectrometry (ICR-FT/MS) in numerous metabolomics studies and illustrate the possibilities in using this new technology for the description of small molecule diversity in natural systems.

- **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.”*

Though NOM represents the largest reservoir of organic carbon on earth, it remains poorly characterized because of its extensive intricacy. This presentation will outline the fundamentals of non-targeted high-resolution organic structural spectroscopy in the analysis of NOM and will show recent examples on NOM behavior in natural and anthropogenically altered systems.

### **More about the Conference**

The conference will feature over 150 presentations, divided into multiple sessions with five tracks in each session. More than a third of the presentations will be given by student speakers, who represent novel research at universities from around the world.

Conference topics include the molecular characterization of NOM, removal strategies, environmental fate and transport, disinfection byproducts, extracellular polymeric substances, advanced oxidation processes, monitoring, and many others.

Also included at the conference will be over 40 poster presentations and an optional tour of the Groundwater Replenishment System at the Orange County Water District.

### **Sponsorship Opportunity**

You are invited to become a sponsor of the IWA Specialty Conference on NOM. Sponsorship offers an opportunity for your organization or company to become a part of the discussion about issues that are critical to managing NOM in water supplies.

Our current sponsors include:

- Ahlstrom Filtration LLC
- Carollo Engineers
- Centre for Water Science, Cranfield University
- Consulate General of Canada
- Hazen & Sawyer
- Orange County Water District
- National Science Foundation
- Southeast Environmental Research Center, Florida International University
- Trojan Technologies
- University of California Center for Hydrologic Modeling
- University of California Office of the President
- U.S. Environmental Protection Agency
- Ushio America, Inc.
- Water Research Foundation

For more information about sponsorship, including levels of sponsorship and how to become a sponsor, please visit [www.regonline.com/NOM2011](http://www.regonline.com/NOM2011) (click on the “Sponsorship” tab).

To register for the conference, please visit [www.regonline.com/NOM2011](http://www.regonline.com/NOM2011).

## Upcoming Events

### ***UCI Urban Water Research Center's "Women in Water" Event (6/2011)***

The Urban Water Research Center at the University of California, Irvine (UCI) is holding its annual WOMEN IN WATER event on June 1, 2011, which will feature speaker Debra Man, Assistant General Manager and Chief Operating Officer of the Metropolitan Water District of Southern California. She will speak on the water crisis in Southern California. For more information, please contact Tara Bravo at (760) 776-1776 or at [tara@cvstrat.com](mailto:tara@cvstrat.com).

### ***Water and Health Conference: Where Science Meets Policy (10/2011)***

The abstract deadline has been extended to May 16, 2011, for the "2011 Water and Health Conference: Where Science Meets Policy," which will be held on October 3-7, 2011, in Chapel Hill, North Carolina. For more information, please visit <http://whconference.unc.edu>.

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National Water Research Institute  
18700 Ward Street  
P.O. Box 8096  
Fountain Valley, CA 92728 -8096  
714-378-3278  
Fax 714-378-3375  
[www.nwri-usa.org](http://www.nwri-usa.org)