

Second Announcement & Call for Papers

Fourth IWA Specialty Conference Natural Organic Matter: From Source to Tap and Beyond

July 27-29, 2011
Costa Mesa, California USA
www.regonline.com/NOM2011

Hosted and 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
Centre for Water Science, Cranfield University

About the Conference

The Fourth IWA Specialty Conference on “Natural Organic Matter: From Source to Tap and Beyond” will be held on July 27-29, 2011, in Costa Mesa, California.

The purpose of this 3-day conference on natural organic matter (NOM) is to bring together a diverse, interdisciplinary group of scientists and engineers who are interested in better understanding the environmental dynamics of NOM as it pertains to water research. Because of the increased importance of water reuse, conference discussions will include sessions on effluent organic matter (EfOM) as well.

The conference will examine the importance of organic matter in water and wastewater treatment, formation of disinfection (reaction) byproducts, management and sustainability, impact on ecological drivers and biogeochemical processes, and potential effects of land use and climate change.

While quantitative NOM studies on the above topics are well represented in the literature, less is known about the composition of NOM – or, its “quality.” Recent advances in the ability to characterize NOM promise to help the scientific community reach the next level for a fundamental understanding of the importance of NOM quality in environmental engineering and aquatic sciences. Analytical methods include excitation-emission matrix fluorescence spectroscopy, ultrahigh resolution electrospray Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR-MS), and high-resolution nuclear magnetic resonance spectroscopy, among others. The full potential of these methods in advancing the field has only just begun to be realized.

Equally important to NOM characterization and applications for refining its environmental dynamics in aquatic ecosystems is to review and discuss advances in the areas of membrane processes in water and wastewater treatment, disinfection byproducts, and control strategies for NOM removal in water treatment processes.

Conference sessions will highlight (but are not limited to) disinfection byproducts; NOM and EfOM characterization and monitoring; catchment processes and source management; removal and treatment strategies; changes in NOM during distribution; environmental fate, transport, and transformation; and applications to wetlands, groundwater, and coastal and oceanic studies, including remote sensing and a relatively new area, NOM in extreme environments.

We challenge you to **suggest additional areas** that relate to NOM in drinking water, wastewater, recycled waters, natural waters, and marine systems. At this conference, we anticipate lively discussions of all of these topics.

To assist in planning, please send an email of intent to participate to wcooper@uci.edu or trusso@nwri-usa.org. This notification is not a prerequisite for participation, but will be helpful to the organizers!



Attendees

The goal of the conference is to be inclusive of all disciplines with the common thread of better understanding the dynamics and impacts of NOM. Attendees are expected to include:

- Academics (Professors and Students)
- Water and Wastewater Utility Managers and Staff
- Consultants
- Engineers
- Researchers
- Government Officials

Conference Format

The conference will consist of plenary sessions, followed by three to four parallel sessions. Presenters will include invited speakers who are leaders in the field of NOM research, as well as those submitting papers or posters.

Abstracts Submission Process

Applicants are invited to submit an abstract for an oral or poster presentation at the conference. Student oral and poster presentations are also welcome. An award will be given for the best student poster.

Please note the following abstract guidelines:

- You may submit more than one abstract.
- Each abstract must be submitted with a completed **Abstract Submittal Form**, available at www.regonline.com/NOM2011.
- Abstracts must be written in English.
- Text must not exceed 500 words.

Abstracts must be submitted by January 21, 2011, for consideration. Complete guidelines for abstract submission are available at www.regonline.com/NOM2011.

Conference Topics

- Molecular characterization of NOM
- Catchment and source management
- Monitoring
- Removal strategies
- Membranes and membrane treatment
- Environmental fate, transport, and transformation
- Disinfection byproducts
- Coastal waters and oceanic carbon cycling
- Wetlands and groundwater
- Photochemistry
- Advanced oxidation processes
- Remote sensing of NOM in water
- NOM in extreme environments
- New ideas



Notification of Acceptance

Authors will be notified of acceptance by March 1, 2011. If selected, authors will be encouraged to submit an 8- to 15-page full manuscript for inclusion in the conference proceedings.

At least one author of each selected paper and poster must register and attend the conference to present the paper. Authors must meet their own expenses (conference registration, travel, hotel accommodations, etc.) to attend the conference.

Conference Registration

The cost of registration includes conference materials, three continental breakfasts, three conference lunches, one poster reception, and one conference gala dinner.

The deadline for early registration is June 24, 2011. Register online at www.regonline.com/NOM2011.

Registration Fees			
	Early Registration (USD)	Registration (USD)	One Day Registration (USD)
IWA Members	650	750	250
Non Members	750	850	275
Students	250	350	----

Conference Venue

The Fourth IWA Specialty Conference on NOM will be held at the **Hilton Orange County/Costa Mesa** on 3050 Bristol Street in Costa Mesa, California, USA 92626.

The hotel is centrally located to all of Orange County and Southern California's most popular attractions and offers complimentary roundtrip shuttle service to John Wayne Orange County Airport (SNA), which is located 2.5 miles away. Los Angeles International Airport (LAX) is located 36 miles from the hotel. Super Shuttle or Prime Time are the most cost-effective means of transportation from LAX.



Conference attendees will be required to make their own hotel and travel accommodations. A discounted group rate (159.00 USD per night) will be available at the Hilton until July 7, 2011. For more information about reserving a room under the group rate, please visit www.regonline.com/NOM2011.

Conference Organizing Committee

- William J. Cooper, Ph.D.,
University of California, Irvine
- Rudolf Jaffe, Ph.D.,
Florida International University
- Jeffrey Mosher, Executive Director,
National Water Research Institute
- Simon Parsons, Ph.D., Cranfield University

Dates to Remember

Submission of Abstracts	January 21, 2011
Notification of Acceptance	March 1, 2011
Submission of Full Papers	May 15, 2011
Early Registration Deadline	June 24, 2011
Submission of PowerPoint Presentations	July 22, 2011
Conference Dates	July 27-29, 2011

Contact

For more information about the Fourth IWA Specialty Conference on NOM, please contact:

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Conference Organizers

The International Water Association (IWA) is a global network of 10,000 water professionals spanning the continuum between research and practice and covering all facets of the water cycle. Through IWA, members collaborate to promote the development and implementation of innovative and effective approaches to water management. More information may be found at www.iwahq.org.

The Urban Water Research Center at the University of California, Irvine, is a partnership of faculty members and departments who are working together to advance the understanding of the distinct characteristics of the urban water environment in order to promote health, enhance the efficient use of water resources, and protect environmental values. More information may be found at www.uwrc.uci.edu.

The National Water Research Institute (NWRI) is a nonprofit research organization founded in 1991 to promote the protection, maintenance, and restoration of water supplies and to protect the freshwater and marine environments through the development of cooperative research work. More information may be found at www.nwri-usa.org.

The Southeast Environmental Research Center at Florida International University, Miami, conducts environmental research with emphasis on aquatic ecosystems in the southeastern U.S. and Caribbean region, promotes academic excellence in the environmental sciences, and provides an organizational structure for regional environmental initiatives and coordination of interdisciplinary environmental investigations. More information may be found at www.serc.fiu.edu.

The Centre for Water Science, Cranfield University is recognized internationally for its research, education, training, and consultancy. Water Science's activities encompass treatment technologies, engineering, irrigation, socioeconomics, and policy, as related to the improvement of water quality and the protection and enhancement of the natural, human, and industrial environments. For more information, please visit www.cranfield.ac.uk/sas/water/.

Please visit www.regonline.com/NOM2011 for more information.