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National Water Research Institute

May 2007 E-Newsletter

Proceedings from NWRI's 2007 Fellowship Conference Now Available

The Proceedings from the First Annual NWRI Graduate Fellowship Research Conference are available by download at www.nwri-usa.org.

The Graduate Fellowship Conference was held on Friday, April 13, 2007, in Orange, California, to showcase the work of Ph.D. students at different universities in the U.S. who are researching topics related to water resources. Conference sponsors included the Joan Irvine Smith and Athalie R. Clarke Foundation, Boyle Engineering Corporation, Cargill, Inc., Carollo Engineers, CDM, Kennedy/Jenks Consultants, Malcolm Pirnie, Inc., and MWH.

The 74-page conference Proceedings include abstracts on the following topics:

- Using nutrient criteria in determining water body impairment to best inform decision making.
- Assessing the impact of urban drainage network patterns on flooding in small urban catchment areas.
- Rapidly detecting infectious coliphage as indicators of fecal contamination of water.
- Using solar ultraviolet light to change the DNA and infectivity of *Cryptosporidium* and *Giardia*.
- Modeling simultaneous precipitation and flocculation in water treatment.
- Modeling membrane performance in reverse osmosis.
- Developing a treatment model for high ionic waste streams.
- Comparing ultraviolet processes used to treat endocrine disrupting compounds in drinking water.
- Removing antimicrobial compounds by photochemical and biological oxidation processes.
- Developing an analytic element method to efficiently simulate groundwater flow.
- Assessing gravity and drawdown measurements to better estimate hydraulic conductivity and yield during unconfined aquifer testing.

The Proceedings are available in color by complimentary download. Please visit www.nwri-usa.org to download or for more information.

2007 Clarke Prize Lecture by James Barnard to Be Presented July 12

Environmental engineer James L. Barnard, Ph.D., P.E., of Black & Veatch Corporation in Kansas City, Missouri, will be honored with the 2007 NWRI Athalie Richardson Irvine Clarke Prize for excellence in water research and technology on Thursday, July 12, 2007, at the Hilton Waterfront Beach Resort in Huntington Beach, California.

For over 40 years, Barnard has researched and implemented better ways to conserve water resources and improve wastewater treatment. His groundbreaking application of bacteria to

remove both nitrogen and phosphorous from water revolutionized wastewater treatment processes, allowing treatment plants to employ Barnard's biological nutrient removal (BNR) as a more economic and environmentally friendly alternative to traditional chemical treatment.

The Lecture portion of the award will take place at 12:00 noon and include lunch, with Barnard speaking on the "Elimination of Eutrophication by Resource Recovery: A Pressing Need for the Twenty-First Century." If you are interested in attending the Lecture, please contact NWRI at (714) 378-3278 or by [by email](#). More information about the Clarke Prize may be found at www.nwri-usa.org/ClarkePrize.

Space Still Open For OC Water Camp Summer Program

Sign up now for OC Water Camp 2007, an interactive, week-long water summer education program open to students in Orange County, California, ages 12-15, who are interested in learning more about our water resources and careers in water-related fields. This year, Water Camp will be held from 8 a.m. to 3 p.m. on June 25-29, 2007, and again on July 16-20, 2007.

Students will have the opportunity to conduct real lab work, take field samples, tour state-of-the-art labs and treatment facilities, and talk one-on-one with professionals in water and wastewater-related fields. Agencies such as the University of California Cooperative Education Center, Orange County District Attorney's Office, Cities of Orange and Anaheim, CH2M Hill, Surfrider Foundation, and many others are volunteering their time to teach students about topics in water and wastewater, such as water recycling, landscape conservation, fertilizers and urban runoff, environmental crime, environmental advocacy, and various biological/chemical contaminants in our water supplies.

NWRI is sponsoring OC Water Camp in partnership with the County of Orange, Irvine Ranch Water District, Municipal Water District of Orange County, Orange County Sanitation District, and Orange County Water District. Applications are due by May 15. More information may be found at www.ocwatercamp.org.

Summer Internship Available at NWRI

NWRI is looking for a part-time student intern interested in the areas of writing and administration. Expected tasks include research for articles, writing, word processing, filing and organizing, learning and providing basic website maintenance, helping out with student summer activities, and other tasks, as needed.

Students interested in interning with NWRI should expect to learn about water- and environment-related issues, including treatment technologies, public policy, and education. Students do not need a scientific background to apply.

Please send a resume and cover letter to [Tammy Russo](#). Resumes will be accepted until the position is filled.

Upcoming Events

UCI's 6th Annual "California: Prosperity Through Technology" Industry Research Symposium

The Henry Samueli School of Engineering at the University of California, Irvine (UCI), will be holding its 6th Annual "California: Prosperity Through Technology" Industry Research Symposium

to explore California's leadership in addressing the global connectivity and conflict between the quality of the environment and energy demands for electricity and transportation.

The Symposium will be held from 8 am to 5 pm May 15-16, 2007, at the Arnold and Mabel Beckman Center for the National Academies and UCI Campus. Topics include creating environmentally friendly technologies and policies; the effect of power generation, distribution, and utilization on the global environment; global energy and hydrology cycles; and advanced observation technologies for monitoring the hydroclimatic processes of Earth.

To register or for more information, please visit <http://www.eng.uci.edu/cptt>.

AMTA 2007 Conference and Exposition

"Why Gamble with your Future? Go Membranes!" is the theme of the 2007 Conference and Exposition hosted by the American Membrane Technology Association. The conference will be held July 23-26, 2007, in Las Vegas, Nevada.

Jeff Mosher of NWRI will moderate a pre-conference session on "Inland Concentrate Management," which will be held on Monday, July 23, 2007, and is sponsored by NWRI. Other topics at the conference will include "Planning, Policy, and Regulations"; "Membrane Filtration Experiences"; "Membrane Bioreactors"; "Energy Recovery"; and more.

For further information, please visit www.amtaorg.com.

South Central Membrane Association (SCMA) Training Events in Texas

Registration Open for One-Day Membrane Training in Dallas Area and El Paso

"Introduction to Membrane Technology" is scheduled for June 12 in Sunnyvale (Dallas area) and Sept. 20 in El Paso, Texas. Key topics include: membrane types and uses; pretreatment; cleaning and sanitizing; troubleshooting; and more. Up to six TCEQ continuing education credits for water or wastewater operator training credits are pending.

SCMA Annual Conference & Membership Meeting: San Antonio, Oct. 31-Nov. 2

SCMA's Annual Conference & Membership Meeting will be held at the Radisson Hill Country in San Antonio, Texas. Sessions will focus on optimizing membrane plants, data-based management, and improving efficiencies, among others, and training tracks for operators and engineers/managers will be included.

Registration forms and further details on these training events are available at www.scmembrane.org.

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