

National Water Research Institute

April 2007 E-Newsletter

Dr. James Barnard of Black & Veatch to Receive NWRI's 2007 Clark Prize

NWRI is pleased to announce that environmental engineer James L. Barnard, Ph.D., P.E., of Black & Veatch Corporation in Kansas City, Missouri, will be the fourteenth recipient of the NWRI Athalie Richardson Irvine Clarke Prize for excellence in water research.

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.

Not only did Barnard create the process, but he also actively designs and supervises the construction and start-up of BNR systems in various parts of the world, constantly adapting his innovative technology to varying climates, existing infrastructure, and environmental pressures. He even created a low-cost BNR design for developing countries. It has been estimated that the hundreds of plants worldwide employing BNR rather than chemical treatment processes have saved hundreds of millions of dollars in costs. Another of Barnard's most notable achievements includes his 10-year service on the Nitrogen Technical Advisory Panel for the New York City Department of Environmental Protection, where he helped guide a \$50 million BNR research and development program for the Upper East River and Jamaica Bay areas.

Because of his pivotal research contributions and practical applications of biotechnology to wastewater treatment processes, Barnard was selected as the 2007 Clarke Prize recipient. The Prize will be presented to him on Thursday, July 12, 2007, at the Fourteenth Annual Clarke Prize Lecture and Award Ceremony, to be held in Huntington Beach, California. More information about the Clarke Prize may be found at www.nwri-usa.org/ClarkePrize.

NWRI's Fellowship Conference to Highlight Graduate Research in Water and Wastewater

NWRI will hold its First Annual Graduate Fellowship Research Conference to showcase the work of NWRI Fellows to our water and wastewater agency members, Research Advisory Board, Corporate Associates, Principal Investigators, other students, and members of the academic community. The 1-day conference will be held on April 13, 2007, at the Doubletree Hotel in Orange, California.

Eleven graduate students from schools across the nation will speak on topics such as the rapid detection of coliphage, photochemical and biological oxidation to remove antimicrobial compounds, urban drainage network patterns, and treatment models for high ionic waste streams. Dr. George Tchobanoglous (University of California, Davis) and Dr. Perry McCarty (Stanford University) will both give keynote addresses.

The Graduate Fellowship Research Conference is sponsored by NWRI's Corporate Associates, who include Boyle Engineering, Cargill, Inc., Carollo, CDM, Kennedy/Jenks Consultants, Malcolm Pirnie, Inc., and MWH. For more information about the conference, please visit www.nwri-usa.org/gradconference.

If you are interested in attending the conference, please email Tammy Russo at trusso@nwri-usa.org. Professors and students from nearby universities are especially encouraged to attend. There is no cost to attend, but registration is required.

OC Water Camp for Youth Interested in Water, Environment, and Science

NWRI is pleased to announce that OC Water Camp 2007, an interactive, week-long water summer education program, is 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 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.

The application deadline date for Water Camp is May 1, 2007. More information may be found at www.ocwatercamp.org.

Upcoming Events

Urban Water Institute's Water Conservation Workshop

A nonprofit, the Urban Water Institute will hold an Urban Water Conservation Workshop to present the latest policies, issues, and ideas for increasing water conservation and reducing water demands. The workshop will be held at the Irvine Marriott on April 23-24, 2007, in Irvine, California.

Please visit www.urbanwater.com to register or for further information.

Southwest Membrane Operator Association's Membrane Plant Operator Training Workshop

The Southwest Membrane Operators Association (SWMOA), an affiliate of the American Membrane Technology Association, will be holding a Membrane Plant Operator Training workshop on Wednesday, May 2, 2007, from 9:00 am to 4:00 pm at the Eastern Municipal Water District in Perris, California.

Representatives from Tetra Tech, CH2M Hill, Carollo Engineers, and the Eastern Municipal Water District will provide classroom instruction on MF/UF and RO/NF technologies, membrane fouling and cleaning procedures, and UF/MF system design and operation, as well as provide hands-on training at a 10-mgd microfiltration facility.

For more information or to register, please visit www.swmoa.org.

World Environmental and Water Resources Congress 2007 - EDC Symposium

A special session devoted to endocrine disrupting compounds (EDCs) and other contaminants of concern will take place at the EWRI 2007 Congress in Tampa, Florida, on Tuesday, May 15, 2007. NWRI is a sponsor of this event.

EDCs, which are chemicals that can mimic or block the action of natural hormones, can change the way an organism or its offspring reproduces, grows, or develops. Throughout the day, a number of technical presentations will be made on EDCs and related topics that focus on toxicology and detection, as well as occurrence, fate, and transport.

Registration information is available at <http://content.asce.org/conferences/ewri2007/>. For more information on the EDC Symposium, please contact Arthur Kney at kneya@lafayette.edu.

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.

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