

National Water Research Institute

March 27, 2008 E-Newsletter

NWRI to Hold Second Annual NWRI Graduate Fellowship Research Conference in April 2008

NWRI will hold its Second Annual NWRI Graduate Fellowship Research Conference on Friday, April 4, 2008, at the Capital Hilton in Washington DC. The conference will feature 18 student speakers who are conducting innovative research in areas such as water resources, energy and water, disinfection, membrane treatment, hydrology, and others.

Examples of presentations include:

- “Drinking Water Quality and Climate Change: Planning in the Midst of Uncertainty” by Erin Towler, University of Colorado at Boulder (advisors Dr. Balaji Rajagopalan and Dr. R. Scott Summers)
- “Treatment of Produced Water for Beneficial Use Using Novel Integrated Membrane Systems” by Katie Benko, Colorado School of Mines (advisor Dr. Jörg Drewes)
- “Direct Assessment of DNA Damage in Ultraviolet-Treated Adenovirus Using Quantitative Polymerase Chain Reaction (PCR)” by Anne Eischeid, Duke University (advisor Dr. Karl Linden)
- “Biomimetic Membranes for Desalination” by Manish Kumar, University of Illinois at Urbana-Champaign (advisor Dr. Mark Clark)
- “High-Efficiency Hydrogen Gas Production Using a Microbial Electrolysis Cell (MEC)” by Douglas Call, The Pennsylvania State University (advisor Dr. Bruce Logan)
- “Evaluation of Nutrient Extraction and Membrane Processes to Facilitate the Reuse of Water and Macronutrients Prior to Lignocellulosic Biomass-to-Fuel Processing in Rural Communities” by Kendra Colyar, University of Colorado at Boulder (advisor Dr. John Pellegrino)
- “Designing Efficient Hydrologic Monitoring Networks Using Cost-Benefit Analysis” by Joan Blainey, University of Arizona (advisor Dr. Ty Ferré)

The keynote presentation will be provided by Dr. Charles Noss of the U.S. Environmental Protection Agency, who will speak on “Recreational Water Quality: Thirty Years of Change.”

Conference sponsors include the Joan Irvine Smith & Athalie R. Clarke Foundation, American Membrane Technology Association, and NWRI's Corporate Associates:

- Boyle Engineering
- Cargill, Inc
- Carollo Engineers
- CDM
- CH2M Hill
- Kennedy/Jenks Consultants
- MWH
- Malcolm Pirnie, Inc.

For more information, please visit www.nwri-usa.org/gradconference. Those interested in attending may contact Tammy Russo at trusso@nwri-usa.org for more information.

Advanced Membrane Technologies: A One-Day Seminar for Treating Brackish Groundwater, Seawater, and Reclaimed Water

Registration is now open for a 1-day seminar on “Advanced Membrane Technologies: Treating Brackish Groundwater, Seawater and Reclaimed Water” to be held on Wednesday, May 7, 2008, at Stanford University in Stanford, California. Membrane technologies are rapidly advancing and have become a compelling solution for many water/wastewater treatment, reuse and desalination applications. This seminar will help attendees:

- Discover the potential of membrane technologies.
- Stay abreast of the most recent technological advances.
- Learn from recent state-of-the-art projects.
- Gain insight into the membrane separation process.
- Find out how to approach a treatment problem using membrane technology.
- Avoid pitfalls in project development.

The seminar is presented by the Department of Civil & Environmental Engineering at Stanford University, Kennedy/Jenks Consultants, and NWRI. For more information or to register, please visit <http://www.stanford.edu/group/ees/rows/>.

MWH-Led Consortium Develops Desalination Research Forum to Help Address Water Supply Issues

Consulting firm MWH has partnered with the American Water Works Association Research Foundation (AwwaRF) and the California Energy Commission to develop a desalination research forum that aims to help address water supply issues. When fully populated, the online database will provide water industry professionals with an easy-to-use, one-stop source for information about innovative desalination practices and research and development projects around the world.

Once in the database, researchers, utility and company representatives are able to quickly enter their desalination practices and research projects and have the ability to easily search for research related to projects they are currently undertaking. The database is easy to search and provides one location for access to the most recent published and unpublished desalination research.

To register, populate the database, and access information, researchers and other industry professionals should go to www.DesalinationResearch.net.

MWH is an NWRI Corporate Associate. To learn more about the NWRI Corporate Associates program, please visit www.nwri-usa.org/corporateassociates.

Summer Camp with a Splash: O.C. Water Camp to Be Held in Summer 2008

Applications are now available for O.C. Water Camp, an interactive, week-long water education program for Orange County students, entering grades 8 and 9, who are interested in science and the environment. It is sponsored by the Municipal Water District of Orange County, Orange County Water District, Orange County Sanitation District, Irvine Ranch Water District, County of Orange Watershed and Coastal Resources Division, and NWRI.

O.C. Water Camp gives students the opportunity to visit state-of-the-art laboratories, take behind-the-scenes tours of wetlands and treatment facilities, and talk one-on-one with industry professionals and university professors. At O.C. Water Camp, students not only gain a better understanding of our water resources, where they come from, and what it takes to move water in and out of the community, but they are also introduced to career paths in water-related fields.

This summer, two sessions of Water Camp will be open to students: June 23-27, 2008, and July 14-18, 2008. Sessions are held from 8 a.m. to 3:30 p.m. each day.

To download *Water 2010*, please visit www.ocwatercamp.org. For those interested in sponsoring O.C. Water Camp, please contact Jessica Hanley of the Municipal Water District of Orange County at jhanley@mwdoc.com for more information.