

National Water Research Institute

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Register Early for Advanced Asset Management Workshop (Los Angeles, CA)

Registration is now open for a "hands-on" workshop that focuses on improving the asset management assessment skills of water and wastewater utilities. The workshop, which will be held April 21-22, 2010, at the City of Los Angeles Bureau of Sanitation in Los Angeles, CA, is based on a program developed by the U.S. Environmental Protection Agency.

Workshop sponsors include:

- U.S. Environmental Protection Agency
- City of Los Angeles, Department of Public Works, Bureau of Sanitation
- Los Angeles Department of Water and Power
- NWRI

Practical, advanced techniques for better managing assets have been developed and refined in both the U.S. private sector and in water and wastewater agencies around the world, with focus on long-term effectiveness, service sustainability, and effective environmental management. This workshop will demonstrate how these advanced asset management techniques can be most effectively transferred to your water or wastewater utility.

The workshop will include:

- **Real-world storylines** to demonstrate advanced asset management as a way to approach difficult asset problems.
- **Participant exercises** to provide experience with the concepts, techniques and tools of advanced asset management.
- **Case-based mentoring** with asset management experts.
- **Step-by-step demonstration** of how an agency would select and deploy best appropriate advanced asset management practices.

The California Department of Public Health (CDPH) Division of Drinking Water and Environmental Management Operation Certification Unit is providing up to fourteen (14) Continuing Education Units (CEUs) for participating in the workshop. SWRCB Clean Water Program CEUs are pending.

The fee for early registration (by **April 14, 2010**) is \$225. After April 14, the registration fee will be \$275.

Register online at www.regonline.com/assetmgt. More information on the workshop, including the workshop brochure, is available on the registration webpage.

Reports Available for Southern California Regional Brine-Concentrate Management Study-Phase I

The following reports based off of the Southern California Regional Brine-Concentrate Management Study-Phase 1 are now available at the Bureau of Reclamation's website:

- Executive Summary of the Southern California Regional Brine-Concentrate Management Study-Phase I
- Survey of Brine-Concentrate Landscape Report
- Identification of Regulatory Issues and Trends Report
- Review of Secondary and Emerging Constituents Report
- Identification of Institutional Issues Report
- Evaluation of Brine-Concentrate and Disposal Options Report
- Identification of Brine-Concentrate Pilot/Demonstrative Projects Report

The Southern California Regional Brine-Concentrate Management Study was a collaborative effort between the Bureau of Reclamation and 14 agencies, including the Southern California Salinity Coalition (SCSC), who identified the management of brine-concentrate as significant in addressing Southern California's water supply reliability.

The management of brine-concentrate faces economic, environmental, and regulatory hurdles to developing ocean and brackish groundwater supplies and recycling water, as these lower quality waters often require the use of membrane or other treatment technologies that produce brine or concentrate waste streams. This waste is classified as an industrial waste and can face regulatory limitations on disposal. Currently, the most common practice for disposal is the use of brinelines and ocean outfalls. However, as the amount of brine-concentrate waste increases, several implementation, regulatory, and institutional issues present complex challenges to agencies.

This study examined the different challenges that affect brine-concentrate management, resulting in the six reports and Executive Summary. The reports are available for download at www.usbr.gov/lc/socal/planning.html.

SCSC was founded in 2002 by a group of Southern California water and wastewater agencies to better manage salinity in our water supplies. SCSC's member agencies include the Eastern Municipal Water District, Inland Empire Utilities Agency, Metropolitan Water District of Southern California, Orange County Sanitation District, Orange County Water District, San Diego County Water Authority, Sanitation Districts of Los Angeles County, Santa Ana Watershed Project Authority, and West Basin Municipal Water District. NWRI administers SCSC on behalf of its members.

NWRI Fellowship Application Deadline - April 1, 2010

Applications for NWRI graduate fellowship funding for the 2010/2011 academic year will be accepted through **Thursday, April 1, 2010**.

NWRI will offer the following fellowships to graduate students at U.S. universities conducting research in the areas of water resources, treatment, and policy:

- **NWRI Fellowships** (up to \$5,000 a year for 1-2 years). Research must pertain to NWRI's mission, which is to create new sources of water through research and technology and to protect the freshwater and marine environments.
- **Ronald B. Linsky Fellowship for Outstanding Water Research** (one fellowship of \$10,000 a year for 2 years). Applicants must write an additional 1-page essay detailing their technical capabilities, interest in other fields beside the one they are studying, career goals, and where they hope to take their technical expertise and vision in the future. Funding for this fellowship is provided by private donors through the Ronald B. Linsky Endowment Fund at www.nwri-usa.org/LinskyFellowship.htm.
- **NWRI-AMTA Fellowships for Membrane Technology** (two fellowships of \$10,000 a year for 2 years). Research must pertain to the advancement of membrane technologies in the water, wastewater, or water reuse industries. Funding is provided by the American Membrane Technology Association (AMTA).
- **NWRI-Southern California Salinity Coalition Fellowship** (one fellowship of \$10,000 a year for 2 years). Research must address the critical need to remove or reduce salts from water supplies and to preserve water resources in Southern California. This fellowship, which is funded by the Southern California Salinity Coalition, is limited to students at Southern California universities/colleges.

Additional information about the NWRI Fellowship Program, including application procedures, can be found at www.nwri-usa.org/fellowship.htm.

NWRI's Fellowship Program is underwritten by:

- The Joan Irvine Smith & Athalie R. Clarke Foundation.
- NWRI Member Agencies, which include Inland Empire Utilities Agency, Irvine Ranch Water District, Los Angeles Department of Water and Power, Orange County Sanitation District, Orange County Water District, and West Basin Municipal Water District.
- NWRI Corporate Associates, including Black & Veatch, Carollo, CDM, CH2M Hill, Kennedy/Jenks Consultants, Malcolm Pirnie, Inc., MWH, and United Water-Suez.
- NWRI Community Partners, including the American Membrane Technology Association and Southern California Salinity Coalition.
- Private donations through the Ronald B. Linsky Fellowship Endowment Fund at www.nwri-usa.org/LinskyFellowship.htm.

NWRI is grateful for the support provide by these partners.

NWRI Clarke Prize Deadline – Monday, March 1, 2010

The last day to submit nominations and letters of support for the 2010 Athalie Richardson Irvine Clarke Prize for excellence in water research is **Monday, March 1, 2010**.

NWRI established the Clarke Prize in 1993 to award outstanding individuals who are significantly contributing toward any of the following areas: the discovery, development, improvement, and/or understanding of the issues associated with water quality, quantity, technology, or public policy.

Information about the Clarke Prize, including nomination procedures, may be found at www.nwri-usa.org/nominations.htm.

Upcoming Events

International Symposium on Membrane Biofouling: Science and Solutions (April 2010)

The first "International Symposium on Membrane Biofouling: Science and Solutions" will be held April 28-30, 2010, in Old Bisbee, Arizona, to examine the fundamental nature of membrane biofouling and identify effective new strategies for its control.

Biological fouling of membranes is perhaps the most serious and widely occurring form of fouling, as well as being the least well understood in terms of causation, mechanisms, and remedies.

Symposium sponsors include: AquaMem Scientific Consultants, Malcolm Pirnie, Wetsus, and NWRI.

For more information, please visit www.ismb-2010.com.

Salton Sea Stakeholders' Symposium (May 2010)

The inaugural Salton Sea Stakeholders' Symposium will be held on Thursday, May 27, 2010, at the Renaissance Esmeralda Resort and Spa in Indian Wells, California.

The purpose of this symposium is to bring together water agencies, businesses, cities, residents, tribes, farmers, school districts and environmental groups to find a sustainable solution to restoring the Salton Sea's water supply.

The symposium will be co-hosted by the Salton Sea Authority, Imperial Irrigation District, Valley Action Group, Coachella Valley Water District, NWRI, and many others.

For more information, please visit www.saltonseastakeholders.com or call (888) 289-9756.

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