



RESEARCH UPDATE

Advancing the Science of Water Reuse and Desalination through Research

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WaterReuse Foundation

The mission of the WaterReuse Foundation is to conduct and promote applied research on the reclamation, recycling, reuse, and desalination of water.

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Cadmus to Populate National Database

The Cadmus Group, Inc. was recently awarded a contract to survey water recycling facilities in California to ensure the comprehensiveness of the much anticipated National Database of Water Reuse Facilities. The Foundation, with in-kind support from 26 major reuse facilities nationwide, commissioned a Malcolm Pirnie-led team to develop an interactive Internet database of U.S. water reuse facilities and programs in 2004. Due to a low response rate from California agencies, the Foundation has contracted with Cadmus to gather additional data.

The database will be vital for establishing a sound basis on which to establish how much beneficial water reuse is taking place in California and around the nation, as well as projections of additional opportunities. Development of the database is supported financially by the Foundation, EPA's Office of Water, the California State Water Resources Control Board, and the California Urban Water Agencies. The database will be available to Foundation Subscribers in early 2007.

New Report: NDMA Fate and Transport

The Foundation released a new research report in July entitled *Investigation of N-Nitrosodimethylamine (NDMA) Fate and Transport (WRF-02-002)*. This study assesses the fate and transport of NDMA and NDMA precursors in soil, groundwater, and surface waters. The project includes a review of available data from NDMA contaminated sites to identify environmental variables that influence NDMA transport and transformation. The project also includes experimental studies to assess the potential for biotransformation and field studies to assess volatilization and transport of NDMA in irrigated soil plots and soil columns. The principal investigator was Dr. David L. Sedlak of the University of California, Berkeley. For more information about the report, [click here](#).

Foundation Releases Web Tools to Aid Indirect Potable Reuse Public Perception

The Foundation unveiled a set of internet-based tools in July to help utilities understand public perceptions of indirect potable reuse, develop a set of best practices, and improve the community dialogue. The website is a companion to the 2004 report entitled *Best Practices for Developing Indirect Potable Reuse Projects: Phase 1 Report*. The project created 25 best practices, a website, and tools that relate to four trust-building objectives. The principal investigator was John Ruetten of Resource Trends, Inc. To view the website, [click here](#).

Rolchigo Elected to Foundation Board

Philip M. Rolchigo, Ph.D. of GE Water was elected to the WaterReuse Foundation Board of Directors during a May 16 Board meeting in Phoenix, AZ. Dr. Rolchigo has worked in research and development since 1988 and now serves as Water Technologies' Business Program Manager in GE's Global Research Center.

"Dr. Rolchigo will bring a couple of important dimensions to the Foundation Board," said Wade Miller, Executive Director of the Foundation. "First, GE's Global Research Center is out on the 'cutting edge' of advanced treatment technologies; this knowledge will help the Board to fund projects that are truly 'value added propositions.' Second, Dr. Rolchigo has been involved with the Joint Water Reuse & Desalination Task Force (JWR&DTF) activities over the past two years and therefore understands what the Foundation and the Task Force are trying to achieve in desalination. We look forward to having Phil serve on the Board."

Board Approves New Research Projects

The Foundation's Board of Directors approved funding for eight new research studies under the Solicited Research Program at its May 16 meeting. Request for Proposals will be issued for the following projects in the coming months:

- Exploring the Value of Reliability Benefits for Reuse (and Desalination) Projects
- Infectious *Cryptosporidium* in Recycled Water
- Identifying Health Effects Concerns of the Water Reuse Industry and Prioritizing Research Needs for Nomination of Chemicals for Research to National and International Agencies Capable of Performing the Research
- Leaching of Particulate and Dissolved Substances from Aquifer Soils During Infiltration of Reclaimed Waters of Low Ionic Strength: Determination of Kinetics and Potential Mitigation Strategies
- Comparisons of Chemical Composition of Recycled and Conventional Waters
- MBR Effluent Water Quality: What the Technology Can and Can't Do
- Low Cost Treatment Technologies for Satellite Water Reclamation Plants
- Predictive Models to Aid in Design of Membrane Systems for Organic Micropollutants Removal

For more information about these projects, contact Joshua Dickinson, Director of Research Programs, at jdickinson@watereuse.org.

Full Proposals Submitted for Research Funding

The Foundation received eight proposals from researchers on July 14 as part of the 2006 Unsolicited Research Program. The Foundation received a record 63 preproposals in March from researchers competing for nearly \$0.5 million in available funding. The Research Advisory Committee selected eight finalists who were asked to submit full proposals. The Foundation will announce the awards in September.

Foundation Welcomes New Subscribers

The Foundation welcomes the following new Subscribers:

- City of Chandler
- City of Santa Rosa Utilities
- Denver Water
- Orange County Sanitation District
- Water Replenishment District of Southern California

Foundation Subscribers are a group of forward-looking organizations and individuals who help shape the Foundation's research agenda. The support of Subscribers is an integral component of the Foundation's ability to attract top-notch researchers and leverage its intellectual and financial resources around the world.