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WateReuse Foundation

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

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Foundation Releases New Research Results

The WateReuse Foundation recently released two new research reports, adding to a growing portfolio of data that the water industry increasingly relies on to help solve critical utility issues. The new reports are as follows:

Dewatering Reverse Osmosis Concentrate from Water Reuse Applications Using Forward Osmosis — This report summarizes initial feasibility data on the application of forward osmosis to minimize the concentrate from the reverse osmosis process. It also contributes to the knowledge base of novel draw solutions and high-performance forward osmosis membranes. The Principal Investigator was Dr. Samer Adham of MWH.

Reclaimed Water Aquifer Storage and Recovery: Potential Changes in Water Quality — This study investigated and analyzed the variables of aquifer characteristics, storage time, travel distance, recharge water quality, and operational history. The data support many aquifer process assumptions, such as enhanced activity near the well. The Principal Investigator was Ms. Tracy Clinton of Carollo Engineers.

For more information on these or other research results, [click here](#).

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Arizona Section Pledges \$50,000 to Foundation

WateReuse Arizona President David Mansfield recently announced that the Arizona Section would donate \$50,000 to the WateReuse Foundation to help the Foundation reach its goal of raising \$1 million through Subscriber fees and donations in 2007. The Foundation sponsors applied research that advances the science of water reuse and desalination.

The following section members pooled resources to make the \$50,000 donation: Pima County Wastewater Management, the City of Phoenix Water Services Department, the City of Scottsdale, the City of Flagstaff, and Global Water Resources.

For more information about WateReuse Arizona, [click here](#).

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Abstracts Due December 17 for Annual Research Conference

The Foundation will begin accepting abstracts for technical presentations for the 12th Annual Water Reuse and Desalination Research Conference soon. The conference will be held May 5-6, 2008 at the Westin Tabor Center in Denver, CO. The Foundation's Research Conference is dedicated to showcasing the latest results of "cutting-edge" research on water reuse and desalination. To be considered for a technical presentation, submit an abstract via the Foundation's website by December 17, 2007.

For more information about the conference, [click here](#).

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Board Approves Funding for Unsolicited Research Projects

The Foundation's Board of Directors approved funding for two new innovative projects under the 2007 Unsolicited Research Program at its September 11 meeting. The Unsolicited Research Program gives the scientific community the opportunity to present novel ideas to the Foundation for possible funding.

Project Award #1 — *Evaluation of Impact of Nanoparticle Pollutants on Water Reclamation*, Dr. Ganesh Rajagopalan, Kennedy/Jenks Consultants.

An entirely new family of pollutants, nanomaterials, are increasing exponentially in their use in industrial and commercial products. The objective of this research is to evaluate the impact of manufactured nanoparticles on treatment processes and to study their removal during water reclamation. This research will be among the first studies to obtain preliminary data on the treatability of nanoparticles in water reclamation processes.

Project Award #2 — *Membrane Distillation for Water Reuse using Nanostructured Ceramic Membranes*, Dr. Mark Wiesner, Duke University.

The objective of this project is to develop and characterize ceramic membranes for use in direct contact membrane distillation; integrate these membranes into a bench-scale unit; and evaluate the performance of these membranes for water reuse applications. This study has the potential to develop a membrane that optimizes the mass/energy requirements of the membrane distillation process, address operational problems such as fouling, as well as provide the scientific community with a greater understanding of this promising technology.

The 2007 Unsolicited Research Program began with a "Call for Preproposals" issued on February 20, which generated a record 71 preproposals to consider. From a shortlist of six proposals, the Foundation's Research Advisory Committee recommended the two most outstanding proposals based on scientific merit and practicality with consideration as to how they would benefit the Unsolicited Research Program, Foundation Subscribers, and the water reuse and desalination community.

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Board Approves Study on Recycled Water Use in Zoo and Wildlife Facility Settings

The Foundation's Board of Directors approved a Tailored Collaboration (TC) project request from the San Francisco Public Utilities Commission during its September 11 meeting. The project is titled *Recycled Water Use in Zoo and Wildlife Facility Settings and Potential Effects on Animal Health and Well Being*. The TC Program provides Foundation Subscribers with matching funding on research projects.

The project team consists of Metcalf & Eddy, the City of San Jose (Happy Hollow Park and Zoo), the Denver Zoo, and the San Francisco Zoo. The research will provide information on water quality requirements, treatment technology requirement, potential health effects to animals, and regulatory issues.

For more information on the TC program, [click here](#).

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Foundation Elects New Directors

Five seats were filled on the WaterReuse Foundation's Board of Directors at its September 11 meeting in Tampa, FL. The Foundation elected Philip L. Friess of the Sanitation Districts of Los Angeles County (Whittier, CA) and Michael P. Wehner of the Orange County Water District (Fountain Valley, CA) as new members of the Board. Philip Rolchigo of Pentair, Inc. (Golden Valley, MN) was reelected to another two year term. The WaterReuse Association appointed Andy Hui of the Metropolitan Water District of Southern California (Los Angeles, CA) and John Shearer of Shearing Consulting, Inc. (Longwood, FL) to fill its slots on the Foundation's Board.

For more information about the Foundation's Board of Directors, [click here](#).

Foundation Welcomes New Subscribers

The Foundation welcomes the following new Subscribers:

American Water

Irvine Ranch Water District

Northern California Golf Association

Psomas

Trussell Technologies, Inc.

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.