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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 Partners with California Energy Commission

The WateReuse Foundation signed an agreement with the California Energy Commission on September 2 for a new program which will study the future impacts of the water/energy nexus on water reuse and desalination. This new program will have five separate projects and each of these projects will look at different issues surrounding this nexus. The major issues that will be studied are as follows:

- Assessment of existing and emerging energy recovery devices for desalination and wastewater membrane treatment plants;
- Increasing the use of renewable energy, developing management strategies to reduce power use and optimizing technologies to reduce CO<sub>2</sub> emissions at advanced treatment facilities;
- Assessment of the water use requirements and establishment of water quality criteria for using recycled water in energy, power, and biofuels production;
- Emergency planning under climate change scenarios to better assess the role of water reuse; and
- Implications of future water supply sources on energy demands.

The combined research budget for all five projects is \$1.3 million, which will help move these timely issues forward. Project Advisory Committees (PACS) are currently being formed and Requests for Proposals will be released in late 2008.

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## Foundation Accepting Abstracts for 2008 Research Conference

The Foundation is accepting abstracts for technical presentations for the 13<sup>th</sup> Annual Water Reuse and Desalination Research Conference to be held May 18-19, 2009 at the Hilton Waterfront Beach Resort in Huntington Beach, CA. 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 by December 15, 2008. For more information, [click here](#).

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## New Reports Focus on Desalination

The Foundation recently released three new research reports which address issues related to concentrate management for utilities considering desalination projects. The new reports are as follows:

- Impacts of Membrane Process Residuals on Wastewater Treatment (WRF-02-006c-01).
- Regional Solutions for Concentrate Management (WRF-02-006d-01)
- Survey of High-Recovery and Zero Liquid Discharge Technologies for Water Utilities (WRF-02-006a-01)

The studies were funded by the WateReuse Foundation in conjunction with the U.S. Bureau of Reclamation, the California State Water Resources Control Board, the Awwa Research Foundation, the Water Environment Research Foundation, and the City of Phoenix.

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

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## Board Approves Funding for Three Unsolicited Research Projects

The Foundation's Board selected three projects to be funded under the 2008 Unsolicited Research Program during its September 9 meeting. The Unsolicited Research Program funds projects proposed by researchers. The Foundation issued a "Call for Preproposals" in January and received 50 responses. After review by the Foundation's Research Advisory Committee, seven researchers were invited to submit full proposals. The three that were selected for funding are as follows:

- Investigation of Desalination Membrane Biofouling (Sunny Jiang, UC Irvine);
- Reclaimed Water Desalination Technologies: A Full-Scale Performance/Cost Comparison Between EDR and MF/RO (Shane Trussell, Trussell Technologies); and
- Infectivity Assay for *Giardia lamblia* Cysts (Giovanni Widmer, Tufts University).

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

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## New RFPs to be Released

The Foundation will release three new Requests for Proposals (RFPs) this fall for projects under the Solicited Research Program.

**Investigation of Social, Environmental, Natural and Other Informational Factors that Influence Judgments and Decisions about Water Reuse** (WRF-08-03) aims to advance understanding about how knowledge and images, marked by positive or negative affective feelings, guide public judgment and decision making regarding water reuse.

**Approaches to Maintain Consistently High Quality Reclaimed Water in Storage and Distribution Systems** (WRF-08-04) would provide understanding of water quality degradation in recycled water distribution systems and recommend treatment and distribution system operations changes that would maintain high quality recycled water at the point of use.

**The Value of Water Supply Reliability in the Residential Sector** (WRF-08-09) will more accurately characterize the value of changes in water supply reliability to residential users through the application of economic valuation techniques, relying on advanced statistical analysis of residential stated preference data collected via state-of-the-art survey methods.

These RFPs will be posted on the Foundation's website when they are released. For more information about RFPs, [click here](#).

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## Board Approves Tailored Collaboration with Southern Nevada Water Authority

The Foundation's Board approved a new Tailored Collaboration (TC) project with the Southern Nevada Water Authority (SNWA) at its September 9 meeting. The TC program, which is reserved for Foundation Subscribers, provides matching funding for research projects proposed by Subscribers.

SNWA's Tailored Collaboration is titled *Pilot-Scale Oxidative Technologies for Reducing Fouling Potential in Water Reuse and Drinking Water Treatment Membrane Systems*. The objective of this project is to investigate the potential for pilot-scale oxidative technologies placed upstream of membrane treatment to reduce the organic fouling of NF and RO membranes during drinking water treatment, reuse, and desalting applications. Additionally, mechanisms associated with organic fouling with and without oxidative pre-treatment will be investigated along with relative energy costs and carbon footprints associated with each technology.



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## Foundation Welcomes New Subscribers

The Foundation welcomes the following new Subscribers:

[Edmonton Waste Management Centre of Excellence](#)

[Hazen and Sawyer](#)

[Sonoma County Water Agency](#)

[University of California—Santa Cruz, Center for Integrated Water Research](#)

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.