

Water Resources and Policy Initiatives

Update and Overview – April 27th, 2011



David F. Zoldoske, Executive Director
California State University

CSU's Water Resources and Policy Initiatives

- ⇒ Represents more than 250 CSU faculty and staff experts who are active in all aspects of water resources and policy
- ⇒ California's future faces multiple challenges in a variety of water-related issues including; supply & quality, environmental preservation, agricultural usage, and urban demand
- ⇒ In 2008, Chancellor Reed led the formation of CSU's Water Resources and Policy Initiatives (WRPI) to meet this challenge

Mission

- ⇒ **Provide critical faculty and staff based expertise** to support California's need for appropriate and sustainable water resources in the 21st Century
- ⇒ Promote education, training and professional capacity development with the water industry, governmental agencies, and the wider community
- ⇒ Develop new and advanced water technologies and services that will help drive economic development and job creation

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WRPI Committees

⇒ Conference Committee

- ↳ Plans annual conference
- ↳ Select speakers
- ↳ Determines “overall look and feel of the event”

✓ **Note:** Special thanks to staff from the
Chancellor’s office for help with today’s logistics

WRPI Committees

⇒ Proposal Committee

- ↳ Broad representation of CSU campuses
- ↳ Identifies appropriate funding opportunities
- ↳ Develops and submits multi-campus proposals

✓ **Note:** The following two examples

2011 WRPI Faculty-Student Research and Mentorship Activities

This year the WRPI partnered with 14 CSU campuses that are Hispanic-Serving Institutions seeking USDA funding for 100 paid student internships in watershed management to be distributed among faculty at the 14 campuses.

1. [California State Polytechnic University, Pomona](#)
2. [California State University, Bakersfield](#)
3. [California State University, Channel Islands](#)
4. [California State University, Dominguez Hills](#)
5. [California State University, Fresno](#)
6. [California State University, Fullerton](#)
7. [California State University, Long Beach](#)
8. [California State, Los Angeles](#)
9. [California State University, Monterey Bay](#)
10. [California State University, Northridge](#)
11. [California State University, San Bernardino](#)
12. [California State University, San Marcos](#)
13. [California State University, Stanislaus](#)
14. [San Diego State University, San Diego](#)

Federal EPA Designation and Funding Request

- ⇒ *To Establish a CSU wide Technical Assistance Center(s) (TAC) supporting Disadvantage Communities in California*
- ↳ *Currently 8 other states that have similar programs which are administered through their University systems*

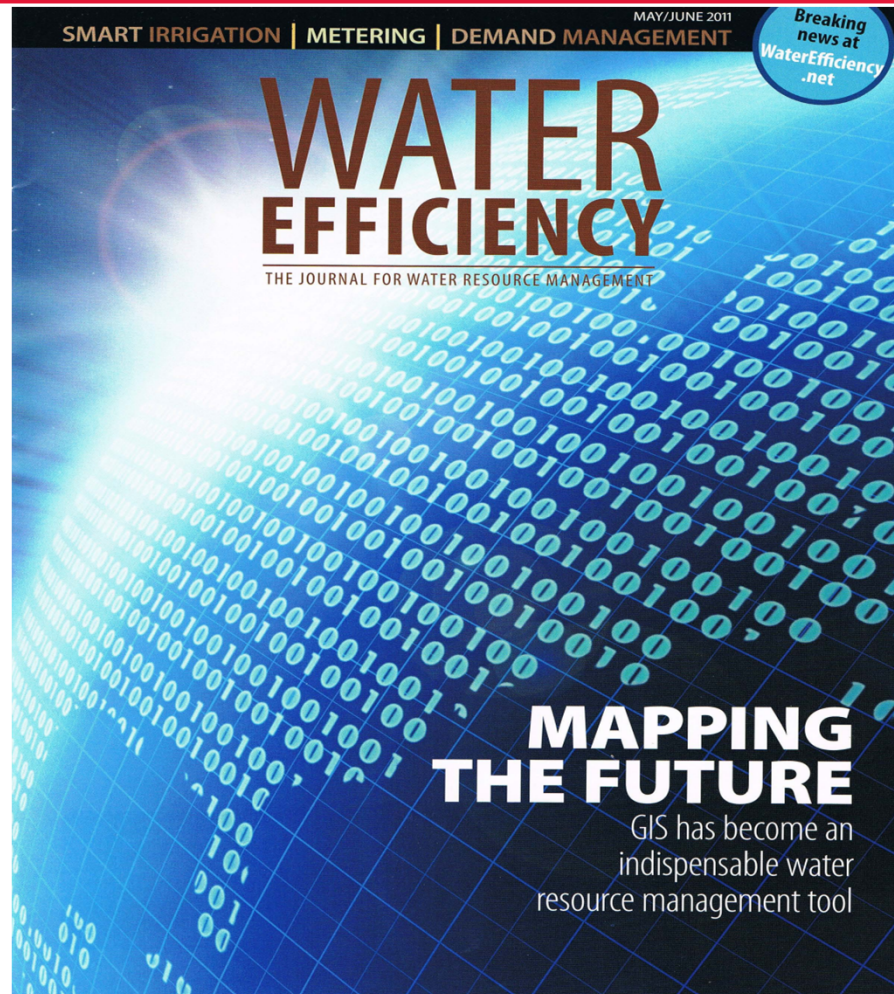
WRPI Committees

⇒ Publication Committee

- ↳ Develop 3,000 word articles written for publication in “Water Efficiency” magazine
- ↳ Four articles to be published in 2011
 - ✓ May/June (in print)
 - ✓ July/August **(need author!)**
 - ✓ Sept/Oct **(need author!)**
 - ✓ Nov/Dec (article committed)

Water Efficiency Magazine

www.waterefficiency.net/

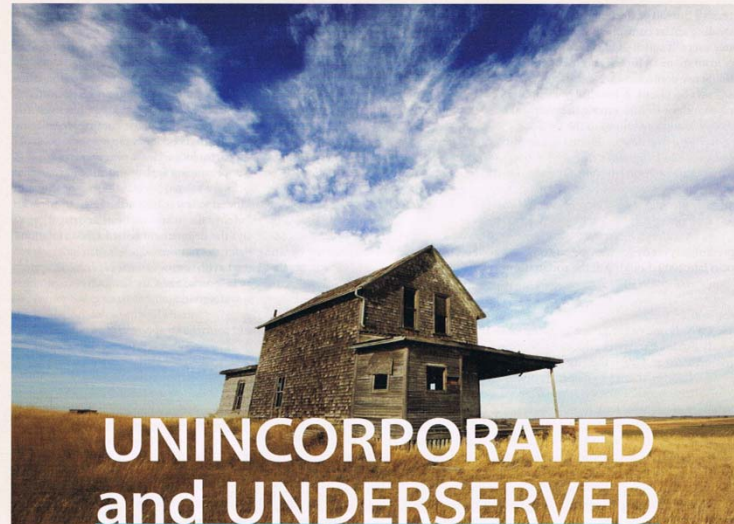


www.calstate.edu/water

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WATER RESOURCES AND POLICY INITIATIVES

Water Efficiency Magazine

www.waterefficiency.net/



Proposed Center for Disadvantaged Community Water Assistance

BY KARL LONGLEY, BRIAN HADDIX, SARGE GREEN, AND DAVID ZOLDOSKE

INTRODUCTION

THROUGHOUT CALIFORNIA ARE thousands of small rural community drinking water systems (with less than 3,300 customers) and wastewater systems (with less than 10,000 customers) whose residents are predominately economically disadvantaged (defined as being less than 80% of the state median household income). What is significant about these systems, as noted by the EPA, is that “96% of all health-based violations occur at systems serving less than 10,000 people. The majority of public water systems are very small. More than half of community water systems and nearly all non-community water systems serve fewer than 500 people. Thousands of these small systems need help, in particular those serving communities defined by the States as disadvantaged, including people living or working in federal Indian Country and some rural communities.”

Readers Response-Note from Editor

“I also wanted to let you know that your article is currently our 3rd most popular story on our website” (<http://waterefficiency.net/may-2011/unincorporated-and-underserved.aspx>).

Congrats!

Elizabeth Cutright, Editor

Water Efficiency

www.waterefficiency.net

Water Efficiency Magazine

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- provide for the availability of operator training workshops and onsite technical visits by trained professionals
- regulatory and treatment assistance hotline
- a website providing an opportunity for educational webinars; online discussion groups addressing system challenges; notification of events, training, and workshops; plus links to other sources of assistance
- examination of innovative techniques for providing drinking water and wastewater treatment (This would include demonstration of new technologies by private and public experts.)

IMPROVED INFRASTRUCTURE LEADS TO ECONOMIC DEVELOPMENT

A key factor necessary for disadvantaged communities to achieve the ability to pay for drinking water and wastewater services is the implementation of economic development. However, this is a “chicken and egg” issue since little economic development is possible without the necessary infrastructure of

About This Series

The Water Resources and Policy Initiative (WRPI) marshals the capabilities and resources of the 23 California State University (CSU) campuses to provide academic preparation, applied research, and policy development that addresses all aspects of water use. WRPI optimizes and links the many centers and programs of excellence within CSU on water issues. For more information, go to: www.calstate.edu/water.

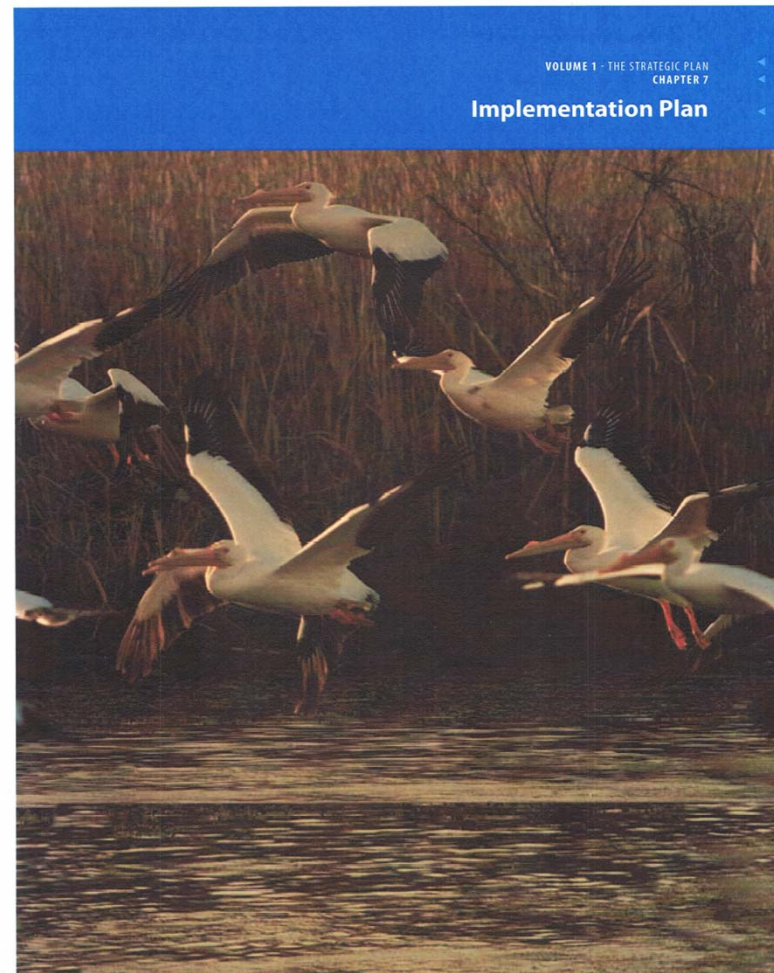
which safe drinking water and wastewater services are a key element.

Once a community drinking water and wastewater system becomes economically viable, it can become the foundation for economic development. In *America's Environmental Infrastructure* (1990), the author noted that an increased investment in public sector drinking water and wastewater infrastructure brings higher private sector profits in the community, spurs addi-

tional private investment in plant and equipment, and improves growth in private-sector labor productivity. This concept of how investments in drinking water and wastewater infrastructure investment has enhanced economic development in hundreds of communities across the country was reported in the Summer, 1995 issue of *Water Sense*, published by the National Drinking Water Clearinghouse (NDWC). In that issue, NDWC showed how a South Carolina Rural Development Council demonstration project consolidated three smaller sewerage systems into an upgraded regional system in Aiken and Edgefield counties. The effort helped spur an economic expansion credited with creating nearly 3,000 new jobs.

Through direct assistance to disadvantaged community drinking water and wastewater treatment systems many systems will begin to achieve compliance with health and safety regulations. For other systems, the solution lies in consolidating with adjacent systems so as to gain an economy of scale that assures fiscal sustainability. Either way, the goal

DWR Strategic Plan-*CSU Engagement*



CSU Faculty/Staff are Caucus Co-Chairs

Objective 11 – Invest in New Water Technology

Identify and fund applied research and pilot studies on emerging water technology to make them attainable and more cost effective.

For related information, see in Volume 2 Resource Management Strategies discussions and recommendations regarding technology

State government will work with California research and academic institutions—like the California Academy of Sciences, California Council on Science and Technology, the University of California, California State University, and other universities and colleges—to identify and prioritize applied research projects leading to the commercialization of new water technologies and better scientific understanding of California’s water-related systems.

Related Actions:

1. State government will work with California research and academic institutions to identify, prioritize, and begin funding applied research projects as part of a broad and diverse scientific agenda to fill gaps in knowledge about California’s water resources.

CSU Faculty Involvement

- ⇒ SBx7-7 Water Use Efficiency Agricultural Stakeholder Committee
 - ↳ A2 Measurement Subcommittee (technical)

Water Bond Update

The “vote” on the ***Safe, Clean and Reliable Drinking Water Supply Act of 2010*** has been delayed by the legislature until November 2012

The WRPI/CSU is named in the bond for funding

Safe, Clean and Reliable Drinking Water Supply Act of 2010

- ↳ Drought relief: \$0.455 billion
- ↳ Delta projects: \$2.25 billion
- ↳ Regional supply: \$1.4 billion
- ↳ Storage: \$3 billion
- ↳ Watersheds: \$1.785 billion
- ↳ Groundwater cleanup: \$1.0 billion
- ↳ Reuse & conservation: \$1.25 billion

❖ **Total funding: \$11.14 billion**



WRPI Website

- ⇒ Water curriculum searchable by campus, major or course offering (*operational in May*)
- ⇒ Development of list serve by water interest area (*under discussion*)
- ⇒ Posting of refereed and journal articles on website (*under discussion*)

WRPI Website

Water Majors - Windows Internet Explorer
C:\Users\lramos.AD\Desktop\csuwatermajors\Default.aspx

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WORKING FOR CALIFORNIA

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Administration
Alumni, Parents & Donors
Business, Community & Gov't
Public Affairs

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Welcome to the Water Majors listing. Below is a listing of water-related degrees and courses throughout California State Universities.

You may search a mix of campuses, degrees, courses below. The list will auto-update.

Search Campuses Search Degrees

Search Courses

Campuses Degrees Courses

Content Contact
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Technical Contact
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Last Updated: February 25, 2010

Other WRPI Activities

- ⇒ Development of a Strategic Plan
- ⇒ Ongoing Campus Visits
- ⇒ Appointment of an Advisory Board
- ⇒ Other
 - ↳ Presentations today on DWR Master contract and Water Archive collection
 - ↳ Fresca

Questions?



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