



# Waterworks Information Pipeline

Volume 1, Number 1

January 2004

*Water & Wastewater  
Technology  
Industry Advisory Committee*

*Don Jones  
Committee Co-Chair  
Vista Irrigation District*

*Walter Payne  
Committee Co-Chair  
Padre Dam MWD*

*Sue Mosburg  
Advisory Committee  
Immediate Past Chair  
Sweetwater Authority*

*Richard Carlson  
County of San Diego*

*Doug Clarke  
Otay Water District*

*Don Gauthier  
Helix Water District*

*Thom Harpole  
City of San Diego*

*Joe Mackey  
City of San Diego*

*Paulette Mormino  
City of San Diego*

*Henry Palechek  
Helix Water District*

*Don Thomson  
Sweetwater Authority*

*Janet Uglow  
Metro Wastewater San Diego*

*Judy Von Kalinowski  
City of San Diego*

*Joe Young  
Helix Water District*

*Brad Monroe  
Program Coordinator  
Cuyamaca College*

## New campus... new classes

# WWTR finds a home at Cuyamaca College

I would like to welcome all the Water and Wastewater Technology Program students to the Cuyamaca College campus. It is nice to be on a campus and to have all the amenities that a first rate college has to offer.

Our first semester at Cuyamaca College was a big success. Classes were filled beyond expected attendance. Speaking of other classes.....

Faculty and staff have been working hard on preparing a wide selection of curriculums for students. We are offering a lot of the same classes that were offered when we were a part of Mesa College and some new additions are on the way, too. For the Spring Semester we have Water and Wastewater Fundamentals, Math Calculations, Water Distribution and Advanced Water Distribution, Advanced Wastewater Treatment, Cross-Connection and many other classes starting in January. See the complete schedule with details [on-line](#) or pick up a catalog on campus. (Classes are also listed on [page 4](#) of this newsletter.)

Some classes that are being created and will be offered in the future are a Wastewater Collection II class and a Water/Wastewater Supervision class. These two classes will be a part of the newly created degrees in the Water Technology program.

Our newsletter, *Waterworks Information Pipeline*, not only enables us to stay in touch with students, industry reps and supporters, but provides all of us with a way of sharing information as this program expands. Please feel free to let us know what kind of information you'd like to see in the newsletter.

We at Cuyamaca College look forward to seeing you in class and around campus. Remember to sign up early and avoid the rush.

**Walter L. Payne**  
*Co-chair, Water Technology Committee*

## *Program includes Mesa College students*

The Water and Wastewater Technology (WWTR) Program at Cuyamaca College provides pre-employment training as well as advanced courses in water and wastewater technology. Courses are oriented toward preparing students for certification examinations administered by the State of California as well as Professional Associations within the water and wastewater industry.

[Continued on page 4](#)

## Cross Connection Control AA degree planned for Fall '04

By Dick Carlson

You're a certified backflow prevention assembly tester and a Cal-Nevada AWWA certified Cross-Connection Control Specialist. What else is there – or are you at the end of the line, reached the summit, no more mountains to conquer?

In the water/wastewater industry, there is an increasing commitment to continuing education and contact hour requirements based on the need to stay current in the protection of public health and safety. The same can be said for the Cross-Connection Control arena, and there is another summit on the horizon.

The Water / Wastewater Technology Department at Cuyamaca College in El Cajon, CA is proposing a new AA degree program in Cross Connection Control starting in Fall 2004. Degree requirements and electives are now in the approval process.

In addition, the proposed curriculum

will include a three-unit one-semester course (16 classes) titled *Cross-Connection Control Specialist – Recycled Water*, tentatively scheduled for Fall 2004. The course is designed to provide specialized training for conducting cross connection control shutdown tests at recycled water sites. A prerequisite for the course will be a current AWWA Cross Connection Control Specialist certification.

The reason for the course is that in San Diego County, which currently has over 500 recycled water sites that also contain potable water systems, a periodic shutdown test is required to demonstrate that the recycled water system has not been cross-connected to the potable water system. Recycled water has its beneficial uses, but drinking is definitely not one of them. Similar testing is done throughout the State.

Currently, in most cases, trained and knowledgeable certified staff from the recycled water purveyors conduct the shutdown test. With the use of recycled water as part of the California water equation, its use is exploding as is the need for the testing. The testing requirements may soon put an extreme burden on the purveyor's staff.

Regulatory oversight is within the jurisdiction of state health or local health



Tom Sanchez tests reduced pressure backflow prevention device.

Photo by Richard Carlson

[Continued on page 4](#)

# Goal of \$25,000 to fund program

With the closure of San Diego Mesa College's Water and Wastewater program at the end of the Spring 2003 semester, San Diego's nearly 3 million people who depend on water treatment and distribution, as well as wastewater collection and treatment, faced losing a valuable training program. Cuyamaca College volunteered to provide a new home for it.

The funds we raise assist us in making this program a leader in the training of the professionals who treat, distribute and collect our water and wastewater. The industry counts on these professionals to provide a safe drinking water supply and to provide for the collection and treatment of our municipal wastewater. As directed by our industry advisory committee, our goal is to raise \$25,000 to make this program transition successful.

The funds collected in this campaign will be used to purchase equipment and supplies, develop program curriculum materials, and provide funds for a website, an electronic newsletter, scholarships and program coordination. With the support of our industry partners, the Cuyamaca College Water and Wastewater Technology Program will become a leader in the education and training of our industry professionals. Sponsorship levels are available at the Charter, Corporate, Industry and Friend levels; however, any contribution is welcome.

A Charter Sponsor donation of \$5,000 includes support for a \$500 scholarship in your company's name and your company logo will appear with a recognition of your support on the WWTR website, as well as recognition and company logo in the online newsletter, *Waterworks Information Pipeline*.

A Corporate Sponsor donation of \$2,500 includes a \$250 scholarship in the company's name as well as recognition in the newsletter and on the website.

A \$1,000 donation qualifies as an Industry Sponsor which includes recognition on the website and in the newsletter; while a \$500 Friend of Cuyamaca College WWTR includes recognition in the newsletter.

If you have any questions about the program please feel free to contact any of the industry advisory committee members or call Brad Monroe, Project Coordinator, at (619) 660-4261.

## Industry Sponsors

Barrett Engineered Pumps  
Walter Barrett  
San Diego, California

Hirsh & Company  
Cecil H. Rehr, PE  
San Diego, California

## Friend of the Cuyamaca College Water and Wastewater

**Technology Program**  
CyberNet Consulting, Inc.  
M. Cyrus Moaveni, PE  
San Diego, California

Montgomery Watson Harza (MWH)  
Jeff Thornbury  
Pasadena, California

SDG&E  
Samantha McDonald  
San Diego, California

*Waterworks Information Pipeline* is published four times a year by the Cuyamaca College Water and Wastewater Technology Program. Correspondence regarding this publication should be addressed to: Cuyamaca College – Water and Wastewater Technology, 900 Rancho San Diego Parkway, El Cajon, California 92019. Email address: [wwtr@cuyamaca.edu](mailto:wwtr@cuyamaca.edu). Or call (619) 660-4261.

### Grossmont-Cuyamaca Community College District Governing Board Members

Richard D. Alexander      Wendell Cutting  
Dr. Timothy L. Caruthers      Ronald D. Kraft

Rebecca L. Clark  
Rick Collins, Stephanie Duncan  
Student Members

District Chancellor  
Omero Suarez, Ph.D.  
Cuyamaca College President  
Geraldine Perri, Ph. D.

### Water Technology Committee Co-Chairs Don Jones, Vista Irrigation District Walter Payne, Padre Dam

Waterworks Information Pipeline Staff  
Program Coordinator: Brad Monroe

[brad.monroe@ccsc.edu](mailto:brad.monroe@ccsc.edu)  
Editor: Patricia E. Neal

# Spring 2004 Class Schedule

To apply and register for WWTR classes, visit the Cuyamaca College homepage website at <http://www.cuyamaca.net/apply.asp> or visit the Admissions and Records Office, Bldg. Z300, on campus, 900 Rancho San Diego Parkway, El Cajon, CA.

Mon & Thu 8 am-7 pm  
Tue & Wed 8 am-5 pm  
Fri 8 am-4:30 pm

## WWTR 101 Fundamentals of Water/Wastewater Technology

MW 6-8:50 p.m. Jan 26-Mar 20  
Cuyamaca College

## WWTR 102 Calculations in Water/Wastewater Technology

MW 6-8:50 p.m. Jan 26-Mar 20  
Cuyamaca College

## WWTR 106 Introduction to Electrical & Instrumentation Processes

TTh 6-8:40 p.m. Jan 26-Mar 20  
Cuyamaca College

## WWTR 120 Advanced Plant Operations: Wastewater Treatment

Prerequisite: WWTR 114

TTh 6-8:40 p.m. Mar 22-May 22  
Cuyamaca College

## WWTR 130 Water Distribution Systems

MW 6-8:40 p.m. Mar 22-May 22  
Cuyamaca College

## WWTR 265 Water Distribution Systems II

Prerequisite: WWTR 130

T 6-8:50 p.m. Jan 26-May 22  
Helix Water District

## WWTR 280 Backflow Tester Training

MTWTh 6-8:50 p.m. Feb 9-Mar 4  
Otay Water District

## WWTR 282 Cross Connection Control Specialist

TTh 6-8:40 p.m.  
Cuyamaca College

## WWTR 290 Cooperative Work Experience



For a complete description of all classes, please visit the Waste and Wastewater Technology website:

<http://www.cuyamaca.net/WWTR/courses.asp>

## Cross Connection Control AA degree planned for Fall

*Continued from page 2*

agencies if delegated, but the purveyors are ultimately responsible for the safe use of recycled water.

In the future, the recycled water purveyors may need to turn to the private sector to help in conducting the testing. Remember when only water purveyors could do the backflow testing? The requirement in Title 22 of the California Code of Regulations is that only a Cross-Connection Control Specialist can conduct the test. The problem is that there is virtually nothing in the existing specialist training relating to recycled water and shutdown testing. Hence the need for the new course.

The Cal-Nevada AWWA Recycled Water Committee has been provided with the course outline/curriculum and will be considering it for a Cal-Nevada certification.

*For further information on the course or program, contact Brad Monroe,*

*Program Coordinator at:*

[brad.monroe@gcccd.net](mailto:brad.monroe@gcccd.net)

## Mesa College students included

*Continued from page 1*

Currently, three Associate in Science Degrees (or certificates) are offered: Water Treatment Operator, Wastewater Treatment Operator and Water Distribution/Collection Systems. Students who completed 12 units or more in the major at Mesa College by the end of Spring 2003 can complete the program at Cuyamaca and transfer the units back to graduate at Mesa College. Students with less than 12 units at Mesa will complete the program at Cuyamaca College under its degree/certificate requirements.

Visit the WWTR webpage at <http://www.cuyamaca.net/WWTR/>