



ICWT RECEIVES EPA GRANT FOR NEW LAB

In This Issue

ICWT Roundtable	2
2004 CIMT Internship	2
Career Expo	2
Industry News	3
CALIFT Update	4
International Water Conference	4

The International Center for Water Technology (ICWT) received a \$1,614,444 grant from the Environmental Protection Agency (EPA) for the new Hydraulic Research and Testing facility. The grant will be used over a four-year period to fund staffing, equipment, and engineering.

Funding for the new lab has been a joint effort between the water industry, California State University, Fresno and a large group of supporters. The water industry has been instrumental in raising another \$1,000,000 that will be used to support the EPA grant. Fresno State is providing land on the south west corner of Chestnut and Barstow where the new lab will be located. This new building would not be possible without the many people and organizations who voiced their support.

Scheduled for completion in Spring 2005, the new lab will greatly enhance existing facilities at Fresno State that support a successful industry/university partnership dedicated to solving water quality and quantity problems through applied technology. Extending current water supplies through advanced technology is a major avenue to meeting the challenges of growing world populations. Successfully facilitating the advancement of these technologies through research and testing will provide solutions to a range of problems including environmental remediation, efficient use of existing water supplies, and effective reuse.

The new facility will provide research and testing capabilities over a large range of flow rates and pressures to accurately assess the equipment under expected field conditions. The types of technologies that will benefit from this laboratory include water pumping, water measurement, filtration, treatment, control, and application technologies.

The fully equipped hydraulics laboratory will provide a number of services to promote and advance the knowledge of applied water technology. Examples of these

services include evaluation of existing and proto-type:

- 1) designs for water measurement in closed conduit and open channel distribution systems
- 2) designs for water pumping systems
- 3) designs for backflow protection devices in urban and agricultural applications
- 4) water filtration systems
- 5) water control technology
- 6) alternative energy sources used to convey and/or treat water.

In addition to the above mentioned the lab will also:

- 7) provide demonstration and training to interested parties, and
- 8) provide general consultation and services for the water technology industry, non-federal government agencies, and the general public sector.

Testing and research activities will follow established standards such as the Hydraulics Institute, American Society of Sanitation Engineers, International Association of Plumbing and Mechanical Officials, American Society of Testing Materials, International Standards Organization, National Institute of Standards and Technology and others.



The expected services of the International Center for Water Technology are many and include the following:

- 1) Provide third party verification of manufacturer's claim as to the efficacy of product performance
- 2) Provide assistance (research & development) in advancing and improving the effectiveness, economics, and/or application of the technology
- 3) Provide a national clearinghouse for performance information on water technology equipment to both the public and private sector
- 4) Effectively address the growing demand to extend existing water supplies for urban, agricultural, and environmental needs through the use of applied technology.

ICWT ROUNDTABLE HELD MAY 11, 2004

Twenty-two members of the water industry met on May 11 at the Smittcamp Alumni House on the Fresno State campus to discuss the future direction of ICWT. The roundtable was led by CIT staff.

The group addressed the following questions:

1. What is the role of the Water Cluster?
2. What is the role of ICWT?
3. What is the relationship between the Water Cluster and the ICWT?

After a thorough discussion by the two breakout groups, the following conclusions were developed:

1. The Water Cluster and the ICWT will become a single entity effective June 17 as part of the meeting to be held at the Airport Piccadilly Inn in Fresno.

2. Fundraising and PAC activities will be the responsibility of the industry. The PAC's goal is to support ICWT's mission.

3. The industry will continue to support ICWT in its programs and activities so that it will attain the ICWT goal of being "The world's leader in water technology and applied fluid sciences."

2004 CIMT Summer Internship Program

The Careers in Manufacturing Technology (CIMT) Internship Program is gearing up for its second annual internship program. The program officially starts June 1, 2004. Approximately 20 placements are expected this year, almost doubling last year's participation.

A well-qualified group of 35 students from the Applied Technology programs of Fresno City College and Reedley College applied to obtain a summer internship with our water industry manufacturing companies. The program is structured so that students can work full time (40 hours a week) in their field of study during the summer months and have the support of both faculty and host company mentors. Host companies will compensate interns at the rate of \$8.50 per hour, and they will also receive course credit toward their studies by completing the Training Academy.

The Training Academy is a mandatory component of the internship. The

companies will be surveyed to determine what topics should be covered in Training Academy sessions. Faculty from community colleges will facilitate the classes, and industry leaders will participate as guest speakers.

To learn more about the internship program or any other work-experience program offered by CIMT, please contact Fresno State's Office of Community and Economic Development at 294-6023.

Career Expo Hosted by Careers in Manufacturing Technology Program (CIMT) Is a Big Success

On March 18, 2004, close to 175 community college students, manufacturing supervisors, and employers/exhibitors came together to participate in a day-long career expo hosted by the CIMT program at the Airport Piccadilly Inn. The day included workshops for students and supervisors, and networking opportunities before and during lunch for students, supervisors, and industry representatives.



Student Workshop

Human Resource professionals provided advice to college students. Boosting student confidence when seeking job opportunities simply means providing them with tools they

need to be well prepared applicants. To help students prepare to enter the workforce, two specific workshops were offered at the Career Expo: "Resume Writing" and "How to be Successful on the Job." Both workshops were facilitated by human resource professionals from local manufacturing companies and the Human Resource Association of Central California.

Approximately 90 students from the applied technology programs at Fresno City College and Reedley College attended the workshops. During the workshops the students

were given materials to take back with them for future reference.

Supervisor Training Workshop

Supervisors learned how to "Handle Emotions under Pressure," "Give Recognition," and the importance of "Teamwork." Forty-one supervisors from both manufacturing and water industry companies attended the full-day training workshop. The Fresno City College Training Institute and California Manufacturing Technology Consultants facilitated the workshops.

Industry/Exhibitors

Students were given the opportunity to talk to human resource managers

and other industry representatives about part-time and summer internship opportunities. Exhibitors from the water and manufacturing clusters, stayed to network with the students over lunch, and Jane Yow, owner of Performance Link, was the luncheon motivational speaker. Yow talked about the "Generations at Work," and identified six generations and the key characteristics of each.

The Career Expo was sponsored by the James Irvine Foundation and the Fresno County Workforce Investment Board.

ICWT MEMBER'S - INDUSTRY NEWS

Wastewater Solutions Wins Award

International Irrigation Show 2003 'Best New Product' for the Golf Industry

San Diego, November 19, 2003: An independent panel of twelve industry executives awarded Wastewater Solutions, Inc., the 2003 Winner in the Exhibitor Best New Product Contest hosted by the The Irrigation Association at their annual show and conference held this year at the San Diego Convention Center.

Wastewater Solutions' patent-pending Aqua-Ject® injection system won the award for its unique implementation and capability to neutralize the high sodium and bicarbonate levels typically found in recycled water—directly at the treatment plant. By treating at the source, the Aqua-Ject® system improves the water chemistry for *all* downstream users with a single installation. Unlike acid or liquid calcium, solution grade gypsum is non-hazardous, creates no discoloration or odor, and requires no special handling or permits.

Injecting all-natural gypsum is a very effective method of overcoming the negative impact effluent water can impose, and is perfectly safe for use in metal, cement or plastic irrigation water delivery systems. Besides improving the water chemistry, gypsum can also notably improve soil penetration and adds critical calcium in a form that is immediately available for uptake by plant roots. The equipment is a state-of-the-art bulk gypsum injection system that is fully automated and requires no manual loading or operation. It is virtually maintenance-free, operates via remote control, and will automatically adjust the amount of calcium injected, even with changing water flow rates and/or changing effluent chemistry.

Wastewater Solutions also provides the equipment as part of a Service Contract, so there is no need for the municipality to purchase any equipment. The Aqua-Ject® is compact and may be implemented at either new or existing wastewater treatment facilities. Wastewater Solutions, Inc.

For Details, Contact:
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INDUSTRY INFORMATION

Would you like to publicize your company's latest accomplishments? Please forward industry news to Kathe McCall at kathem@csufresno.edu or fax it to (559) 278-8461.



CALIFT PROJECT EXPANDS TO ICWT EXPORT PROGRAM

After 3 years of successful support for the Water Cluster members the California Irrigation and Flow Technology (CALIFT) Export program was completed at the end of March. The focus of the program was to assist Water Cluster members to expand their exports to the Central and South American countries of Mexico, Chile, Brazil, and Argentina.

The ICWT's Economic Development Division will continue and expand the activity in the future. The CALIFT program and the www.calift.org website will be changed to www.icwt.net/export. The expanded export program will continue to assist members in their South American export efforts as well as explore opportunities in other countries. The program is currently exploring a "China Water Technology Trade Mission" for the fall, as well as working with the US Department of Commerce on other export opportunities.

INTERNATIONAL WATER CONFERENCE

Plans are underway for our first international water technology conference. We're estimating the date will be somewhere between 18 to 24 months from now.

Please contact The International Center for Water Technology (ICWT) at (559) 278-2066 if you have suggestions regarding the following elements of the conference:

- * Topics you would like to see addressed at the conference
- * Key international dates that should be avoided for our conference
- * Water technology specialists that should be invited to present
- * Industry leaders who should be specifically invited

We'll continue to keep you updated as our plans become more solidified.

Check out our newly remodeled website



www.waterflowtech.com

WATER CLUSTER MEETING

June 17, 2004
9 – 11 A.M.

Piccadilly Inn - Airport
5115 McKinley
Fresno, CA 93727

Please RSVP to kathem@csufresno.edu
or (559)278-8460

Join the "ICWT" and make things flow!

FROM THE NORTH

- Take HWY 99 SOUTH TO 180 EAST exit towards KINGS CANYON
- Take CA 168 EAST exit towards CLOVIS/HUNTINGTON LAKE
- Take the MCKINLEY AVE. exit
- Turn LEFT on E. MCKINLEY AVENUE
- GO APPROX. 1.5 MILES—AIRPORT PICCADILLY INN WILL BE ON THE LEFT

FROM THE SOUTH

- Take HWY 99 NORTH TO CLOVIS AVE. exit towards CLOVIS
- Continue on CLOVIS AVENUE APPROX. 8.5 MILES
- Turn LEFT on E. MCKINLEY AVE.—GO APPROX. 1 MILE—AIRPORT PICCADILLY INN WILL BE ON THE RIGHT.

Funded by Fresno County Workforce Investment Board