



Solving water treatment challenges and collaborative approaches

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At the next cluster meeting on September 18, Dr. Andrew Rogerson dean of the school of Science and Math at California State University, Fresno will focus on the scale of the problems facing industry intent on designing an effective ballast water treatment system. The nature of organisms in the water will be reviewed as will the various treatment technologies being considered. The challenge is compounded by the lack of a clear treatment standard and by inconsistent treatment verification methods. Options will be highlighted by the presenter.

Dr. Rogerson, is a member of the Environmental Technology Verification Ballast Water Technical Panel. He has considerable experience in research with over 115 publications in refereed scientific journals and two million dollars in external funding. Dean Rogerson has broad national and international experience in the sciences gained from working in six universities including London, California, Toronto, South Dakota (School of Mines & Technology), Florida's Nova Southeastern, Marshall in West Virginia, and two internationally recognized governmental laboratories (Culture Collection of Algae and Protozoa, U.K. and Atlantic Research Laboratory, Canada). Throughout his twenty-eight year academic career, Dr. Rogerson has been involved in research and teaching within many biological disciplines including ecology, taxonomy, physiology, and cell and molecular biology. Most recently he has worked on the ecology of protists particularly naked amoebae, the biological verification

of emerging ballast water treatment systems, and fecal contamination of sand at recreational beaches.

Kathryn Studwell will be presenting the findings of an international dynamics study developed by the Scottish Economic Development. Kathryn Studwell, has over 25 years experience in designing and facilitating collaborative approaches to regional economic development and has extensive expertise in the formation of industry cluster organizations. Studwell has completed over twenty cluster studies for a broad range of industry groups including: food and agriculture; semiconductor; biotech; plastics; aerospace; optics; water flow technology; and software. To find out more about the study please see to page 4.

World Ag Expo abstracts due September 5

As in previous years, the Irrigation Association and the International Center for Water Technology are sponsoring the irrigation-related seminars at the World Ag Expo in Tulare, California, February 12, 2009.

All members of the Irrigation Association are encouraged to submit an abstract to present at the seminar. Presentations should be non-commercial, technical, irrigation-related presentations that will help attendees irrigate more effectively and efficiently. Abstracts are due September 5, 2008. Final presenters will be chosen through peer review and will be asked to make a 20-minute presentation followed by a five-minute question and answer period.

To submit an abstract, visit www.icwt.net. For more information email Laura Ramos at lramos@csufresno.edu or call ICWT at 559-278-2066.

CIMT Internship Program completes sixth year

The Careers in Manufacturing Technology (CIMT) internship program ended its sixth year this month with six interns successfully completing the program. During the course of the internship, the interns worked full-time in their field of study at a local manufacturing company. CIMT would like to thank the following companies for hosting interns this summer:

CalWest Rain hosted Fatima Prado (CAD)
Di-Pro hosted Cedric Jones (maintenance mechanic)
Floway Pumps hosted James Ferguson (welding)
Foster Farms hosted Alejandro Mata (CAD)
Fresno Valves & Castings hosted David Macido (welding)
LiDestri Foods hosted Joel Camacho and Evan Night (electronics)
Modern Custom Fabrications hosted Jeff Kramer (CAD)

Students were also required to participate in the CIMT Training Academy, which seeks to merge academics with practical work experience. The Training Academy consisted of five 4-hour seminars on industry-identified topics such as manufacturing flow processes and precision measurement, and were followed by company tours. Seminars were held at Fresno Valves & Castings, the Surface Water Treatment Plant in Fresno, CENCAL CNC, and Floway Pumps. A final

seminar was held at Pelco, during which students made presentations highlighting their experiences in the program. Training Academy courses were taught by David Tikkanen from Reedley College.

Thank you to all who participated in making this year's internship program a success!

To participate in the program next summer or for more information on the program please email Laura Ramos at lramos@csufresno.edu.



Pictured from left to right: Alejandro Mata, Fatima Prado, David Macido, James Ferguson, Jeff Kremer, Not pictured Cedric Jones.

Upcoming ICWT Export Development Program opportunities

Recruiting local companies to attend Enviro-Pro Mexico

There is space for four companies to travel with ICWT's Export Development Program to Mexico City in October to attend Enviro-Pro Mexico 2008. In an effort to ensure that businesses can capitalize on this opportunity, the Export Development Program pays for 50% of lodging, airfare, and exhibition expenses.

For the 16th consecutive year, Enviro-Pro is the only location in Mexico that displays a complete range of technologies to control and monitor all pollution emissions throughout the region. This annual conference brings together environmental and energy experts, businesses and organizations from throughout the world to analyze problems and present global solutions in a single forum.

As part of the Market Development Cooperator Program (MDCP), participants will have the opportunity to meet potential buyers, dealers and government officials. The Export Development Program also assists businesses with translating needs and setting up meetings with local distributors.

Financial assistance for your customers

ICWT's Export Development Program can also help your potential customers attend the following tradeshows on their inbound trade missions:

- ExpoMin 2008 – Sep 22-24, 2008, in Las Vegas, NV
- SmartWater Innovations – Oct 8-10, 2008, in Las Vegas, NV
- Irrigation Association Show – Nov 2-4, 2008, in Anaheim, CA
- World Ag Expo – February 10-12, 2009, in Tulare, CA

The program will pay 50% of tradeshow-related airfare and hotel costs for customers, agents or representatives from Mexico or Chile.

For more information or to sign up for these events, contact Dan Clawson at dclawson@csufresno.edu.

Electronic export information filing required after September 2008

Effective July 2, 2008 the Census Bureau began mandating filing of export information through the Automated Export System (AES) or AESDirect for all shipments requiring a Shipper's Export Declaration (SED). A paper SED cannot be provided to any carrier as all information must now be reported electronically.

Although the new regulations went into effect July 2, an additional 90 days is being given for implementation. This implementation extension ends September 30.

These new regulations carry tougher penalties affecting everyone in the export process. Penalties from \$1,100 to \$10,000 may be imposed per violation of the Foreign Trade Regulations (FTR) for delayed filing, failure to file, false filing and/or using the AES to further illegal activity.

For additional information, visit www.census.gov/foreign-trade/aes/index.html or call the Center for International Trade Development at 559-324-6401.

WET lab update

The lab in the Water and Energy Technology Incubator is now operational! ICWT performed its first test on a Mazzei Injector Corporation large volume waste treatment injector. Certified pump motors are currently on order; as soon as they have been received pump testing can begin.

Display cabinets have been completed that will house sprinkler collections belonging to CIT and the Irrigation Association. The next time you visit the WET lab, walk through the hall and check out these exciting pieces of irrigation history. Also visit the IA Irrigation Museum at www.irrigationmuseum.org.



WaterSmart Innovations Conference and Expo October 8-10



The EPA's WaterSense program is partnering with the Southern Nevada Water Authority for the WaterSmart Innovations Conference and Exposition to be held October 8-10 in Las Vegas,

Nevada. ICWT is a featured partner of this inaugural conference geared towards broadening the knowledge of innovations in water efficiency and water conservation.

Presenters from 24 states and five nations will shape the conference agenda aimed at bringing together a variety of organizations and businesses to share their success stories and exchange ideas. With more than 1,000 anticipated attendees from around the world, WaterSmart Innovations is expected to be the largest and most comprehensive conference of its kind.

His Royal Highness Prince Feisal Ibn Al-Hussein of Jordan, who as chairman of the kingdom's Royal Water Committee is active in water resource management and alternative resource development, will be the keynote opening session speaker on Wednesday, October 8.

Jonathan Overpeck, coordinating lead author for the United Nations Nobel Peace Prize-winning Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment, will be the keynote speaker at the WaterSmart Innovations luncheon on Thursday, October 9.

For more information about WaterSmart Innovations visit www.WaterSmartInnovations.com.

Water cluster included in international economic development study

Scottish Enterprise, Scotland's economic development agency, was one of the first organizations to adopt the cluster approach to economic development. They recently conducted a study on cluster dynamics in various geographies throughout the world and invited the water cluster to participate.

The objectives of the study were to:

- Test the cluster dynamics model in other countries

- Describe outcomes from each country's cluster study
- Learn from each country's experience using the model
- Develop recommendations for applying the model, including process improvements.

A detailed presentation of the study's findings will be made by Kathryn Studwell at the September 18 water cluster meeting.

International Water Technology Conference 2010

ICWT staff is currently planning the next International Water Technology Conference for spring 2010. Conference date and location will be finalized soon. The format will be similar to

the highly successful inaugural event held in 2007. Additional information will be posted at www.icwt.net soon.

June meeting wrap up

New "On Demand" electrolytic hydrogen and oxygen gas generation systems: Tom O'Brien of Green Energy International discussed a new oxygen/hydrogen (patent-pending) separation process for engine input. The mixture, upon ignition burns quicker and more completely delivering greater fuel efficiency and longer engine life.

The Power of Real-Time Intelligence: Matt Angell VP of Grower Market Development for PureSense presented new irrigation intelligence for higher yields at lower costs including patented information system that delivers a complete, real-time picture of your growing conditions.

Both presentations can be found on www.icwt.net

WATER CLUSTER MEETING

**Central Valley Business Incubator
1630 E. Shaw, Suite 163
Fresno, CA 93704
September 18, 2008
9 A.M. – 11 A.M.**

**Please RSVP to iramos@csufresno.edu
or (559)278-2066**

From The North

- Take Hwy 99 South
- Take SHAW AVE. exit - Exit 140
- Take RIGHT onto W. SHAW AVE
- Left onto N. 9TH ST.
- Turn RIGHT onto E. SHAW AVE. (frontage road)
- End at 1630 E. SHAW AVE.

From The South

- Take Hwy 99 North
- Merge onto CA-41 N toward Yosemite/Airport
- Take SHAW AVE. exit towards CLOVIS
- Turn RIGHT onto E. Shaw AVE. (frontage road)
- End at 1630 E. SHAW AVE.