



# The Conference on Water Recycling and Treatment

**January 28 and 29, 2010**  
**Center for Applied Horticultural Research**  
**3742 Blue Bird Canyon Road**  
**Vista, CA**

Water quality and treatment options for greenhouses and nurseries, with an emphasis on solutions for disease, algae, salt and other nutritional problems.

Regional and national university and industry experts will help you decide on the best water treatment technologies for your location in terms of both technical (efficacy, safety, target levels) and financial (installation and operation costs) aspects.

Target audience: Greenhouse and nursery growers. Registration is \$250 per person before January 14. After that date, late registration is \$295 per person. Register early as space is limited. Registration fees provide all conference activities including Thursday conferences, Friday tours, continental breakfasts and lunches on both days, and a dinner on Thursday evening. Also provided are the publications "Water Treatment for Pathogens and Algae" edited by Paul Fisher and "Greenhouse and Nursery Management Practices to Protect Water Quality" edited by Julie Newman.

CEUs requested: CA DPR, CCA, CCN Pro, Central Coast and Los Angeles Water Boards Ag Waiver

## Thanks to our co-sponsors:



**January 28, 2010 (Thursday)**

- 7:00AM – 7:50AM** Registration, Coffee and Continental Breakfast (outdoors in Nursery)  
**7:50AM – 8:00AM** Welcome and Introductions (outdoors in Nursery)  
 Loren Oki, University of California, Davis and UCCE; Paul Fisher, University of Florida  
**8:00AM – 9:45AM** **Concurrent Sessions I & II** (greenhouse or conference room)

**Session (I) Conference Room**

- 8:00AM - 8:40AM** Biology and Ecology of the Plant Pathogens in Water Systems  
 Deborah Mathews (Univ of California)  
**8:40AM – 9:20AM** Management Practices to Improve the Quality of Surface Runoff  
 Darren Haver (Univ of California)  
**9:20AM – 9:45AM** The Benefits of Slow Sand Filtration  
 Loren Oki (Univ of California)

**Session (II) Greenhouse**

- 8:00AM -8:25AM** Overview of Technologies Available for Water Use on Ornamental Production Facilities. Paul Fisher (Univ of Florida)  
**8:25AM--9:45AM** Technology Presentations by Water Treatment Companies

- 9:45AM -10:15AM** Break in greenhouse  
**10:15AM to Noon** **Concurrent Sessions I & II** (Participants in Groups I and II switch locations and topics)  
**Noon-12:45PM** Lunch in greenhouse  
**1:00PM-5:00PM** **Sessions on water monitoring, actual nursery systems, and individual technologies**

<b>Session A</b>	<b>Session B</b>	<b>Session C</b>	<b>Session D</b>
1PM Group 1	1PM Group 2	1PM Group 3	1PM Group 4
2PM Group 2	2PM Group 3	2PM Group 4	2PM Group 1
3PM Group 3	3PM Group 4	3PM Group 1	3PM Group 2
4PM Group 4	4PM Group 1	4PM Group 2	4PM Group 3

**Session A – Water testing equipment and demonstration**

Paul Fisher, Dustin Meador (Univ of Florida), Valerie Mellano (UCCE San Diego)  
 Location – Altman Plants Loading Dock  
 Bring Your Own Water Samples to Test in this Session

**Session B – Water retention, capture, and treatment**

Tom Costamagna and Loren Oki (UC)  
 Location – Altman Plants Holding Pond

**Session C – Water quality and treatment from a plant nutrition viewpoint**

Bill Argo (Blackmore Co.)  
 Location – Altman Plants Conference Room.

**Session D – Tour of Rote Greenhouses**

Location – Rote Greenhouses on Tamara Lane

## **TENTATIVE TOUR SCHEDULE**

### **January 29, 2010 (Friday)**

**Irrigation water capture is required on all production facilities in California. What to do with that captured water is the challenge facing most ornamental producers, especially since water is in such short supply. The growers we will visit have retrofitted their properties to capture the irrigation water, filter, treat, and reuse the water.**

- 7:00AM – 8:00AM** Welcome: Registration, Coffee, Continental Breakfast  
Meet at Altman Plants
- 8:00AM - 8:10AM** Boarding Bus - Travel Time (30 min)
- 8:40AM - 10:00AM** Tour of Olive Hill Greenhouses  
Olive Hill Greenhouses has been in business since 1973 and has evolved into one of the largest interior plant producers in Southern California, producing a wide variety of foliage plants. With two production facilities totaling 760,000 square feet, the modern greenhouses feature galvanized steel exterior walls, inside insulation, and computer control of misting, propagation, environment, and shade curtains. Some of the water captured at the facility is reused and sterilized via a chlorine generator, and Bromeliads and orchids are grown using reverse osmosis for increased water quality.
- 10:00AM - 10:10AM** Boarding Bus - Travel Time (10 min)
- 10:20AM - 12:00PM** Tour of Premier Color Nursery  
Premier Color Nursery has been providing Southern California retail nurseries, hotels, theme parks, landscape firms, & country clubs with gourmet grown bedding plants since 1991. Premier Color utilizes state of the art runoff recapture and filtration systems.
- 12:00PM - 12:10PM** Boarding Bus - Travel Time (20 min)
- 12:30PM - 1:15PM** Lunch at Pardee Tree Nursery
- 1:15PM - 2:30PM** Tour of Pardee Tree Nursery  
Supplying the landscape industry for more than 25 years, operating on more than 300 acres in the majestic San Luis Rey River Valley, Pardees is one of the largest wholesale tree nurseries in San Diego County, serving the western U.S. and Canada. All irrigation runoff at Pardees is channeled through vegetative filters on its way to a retention pond. Sediment buildup from the runoff and all organic plant material including wooden boxes are reused in potting mixes.
- 2:30PM - 2:40PM** Boarding Bus - Travel Time (30 min)
- 3:10PM – 4:40PM** Tour of Rote Greenhouses (Twin Oaks)  
Michael Rote began a part time business in his backyard in 1976 and went to full time production in 1983. He grew to four locations on a total of 14 total acres that includes 355,000 ft<sup>2</sup> in buildings and 13,000 ft<sup>2</sup> in shadehouses. Rote Greenhouses recaptures nearly all used water, and he was one of the first on the block to try the Pure-O-Tech water purification system, which includes UV and ozone sterilization.
- 4:40PM - 4:50PM** Boarding Bus - Travel Time (30 min) back to Altman Plants  
End of Tour

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January 28 and 29, 2010, Vista CA

### REGISTRATION FORM

Register online at <http://groups.ucanr.org/UCNFA>

Contact Name \_\_\_\_\_

Organization or business \_\_\_\_\_

Street address \_\_\_\_\_

City, state, zip \_\_\_\_\_

Office phone \_\_\_\_\_ Cell phone \_\_\_\_\_ Fax \_\_\_\_\_

Email \_\_\_\_\_

Registration fee per person \$250 (before January 14, 2010) or \$295 (after January 14, 2010)

Thursday night dinner only (guest or spouse): \$30

Name and email of all participants from your company:

Name	Email address (optional)	Registration cost
TOTAL REGISTRATION COST:		

Pay with a check made out to UC Regents and send payment to UCNFA C/O Linda Dodge, Dept. of Plant Sciences Mailstop 6, University of California, One Shields Ave., Davis CA 95616

### Lodging: Special conference room rates available at these local hotels:

Hampton Inn San Marcos

123 E. Carmel Street

San Marcos, California

760-736-9249

Group Name: Water Alliance Conference

Group Code: WAC

Event web page:

<http://hamptoninn.hilton.com/en/hp/groups/personalized/SANSMHX-WAC-20100124/index.jhtml>

Hilton Garden Inn

6450 Carlsbad Blvd

Carlsbad, CA 92011

760-476-0800

Group Name: Water Alliance Conference

<http://www.hiltoncarlsbad.com/>

### Mailing List

I would like to receive email updates and a quarterly newsletter from the Water Education Alliance for Horticulture (We do not sell or share our subscription list with other companies or individuals.)

I would like to receive information on new water treatment products and services from our industry sponsors

### Please check the box that best describes you.

Grower

Allied supplier

Extension/university

Government

### Which topics most interest you? Check all that apply.

Capturing/recycling water

Alternative water sources (such as reclaimed water)

Water treatment for salt or alkalinity levels

Water treatment for pathogens and algae

Funding sources for water conservation

Best management practices

Continuing Education Units (CEUs)

**Do you have a specific water quality, irrigation or treatment question? If so, let us know:**

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