

**A JOINT EVENT!**

20th Annual Fertilizer Research and Education Program Conference &  
Western Plant Health Association Central Valley Regional Nutrient Seminar



**2012 FREP/WPHA CONFERENCE**

## **Managing Agricultural Nutrients**

Applying 20 Years of Research for the Future

**October 30-31, 2012**

DoubleTree Hotel  
Modesto, California

The California Department of Food and Agriculture's (CDFA) Fertilizer Research and Education Program (FREP) and the Western Plant Health Association (WPHA) are teaming up again this year to present a one and a half-day conference on managing agricultural nutrients. The broad agenda is geared toward a wide range of agriculturalists, including agricultural supply and service consultants, growers, university extension specialists, crop advisers, and local, state and national governmental agency personnel. Presenters from academia, industry and agricultural consulting will provide general and technical information, current research data, and practical applications addressing statewide and regional nutrient management issues.

### **ABOUT THE SPONSORS**

The CDFA Fertilizer Research and Education Program coordinates and funds research and projects that advance the environmentally safe and agronomically sound use and handling of fertilizer materials. FREP serves growers, agricultural supply and service consultants, university extension personnel, and local, state and national governmental agencies and organizations. [www.cdfa.ca.gov/is/ffldrs/frep.html](http://www.cdfa.ca.gov/is/ffldrs/frep.html)



The Western Plant Health Association is a not-for-profit trade association that represents fertilizer and crop protection manufacturers, agricultural biotechnology providers, and agricultural retailers in California, Arizona and Hawaii. WPHA's mission is to promote the environmentally safe and agronomically sound use and handling of plant health products and services for the production of safe, high quality food, fiber and horticultural products. [www.healthyplants.org](http://www.healthyplants.org)



**Early registration deadline:  
October 1, 2012**

CCA/PCA credits offered. Special registration for students available.



# Conference Program

## Tuesday, October 30, 2012

Facilitator: Keith Backman, Dellavalle Laboratory, Inc.

- 9:00-9:10 **Welcome**  
*Renee Pinel, Executive Director, WPHA*
- 9:10-9:30 *Karen Ross, Secretary, CDFA*
- 9:30-9:50 **Accessing FREP Crop Nutrient Information**  
*Dr. Daniel Geisseler, UC Davis Land, Air and Water Resources*
- 9:50-10:20 **4 R's of Plant Nutrient Management**  
*Dr. Robert Mikkelsen, International Plant Nutrition Institute*
- 10:20-10:50 **Plant Tissue Sampling through Different Growth Stages**  
*Mike Buttress, A & L Western Agricultural Laboratories*
- 10:50-11:00 **Break**
- 11:00-11:30 **Optimizing Fertilizer Practices to Manage Nitrogen**  
*Dr. Kitren Glozer, UC Davis Plant Sciences Department*
- 11:30-12:00 **Standards for Foliar Fertilizer Effectiveness**  
*Dr. Carol Lovatt, UC Riverside Botany and Plant Sciences*
- 12:00-1:00 **Lunch (provided)**
- 1:00-1:30 **Fertigation and Nitrogen Use Efficiency with Drip Irrigation**  
*Dr. Claude Phene, SDI, Inc.*
- 1:30-2:20 **Panel Discussion: Managing Agricultural Nitrogen in the Central Valley**  
*Facilitator: Dr. Doug Parker, UC Davis, ANR*  
*Dr. Michael Johnson, East San Joaquin Water Quality Coalition*  
*Dr. Patrick Brown, UC Davis Department of Plant Sciences*  
*Joe Karkoski, Regional Water Board*  
*Gene Miyao, UCCE, Yolo County*
- 2:20-2:50 **Review the Uses of Controlled Release Fertilizers, and Anticipated Benefits**  
*Dr. Eric Ellison, Agrium Inc.*
- 2:50-3:00 **Break**
- 3:00-3:30 **Zinc Foliar Uptake Efficiency**  
*Dr. R. Scott Johnson, UC Kearney Agricultural Center*
- 3:30-4:00 **Orchard & Nutrient Irrigation Complications**  
*Keith Backman, Dellavalle Laboratory, Inc.*
- 4:00-4:30 **How Do We Move Forward?**  
*Dr. Amrith Gunasekara, CDFA*
- 4:30-4:40 **Concluding Remarks**

## Wednesday, October 31, 2012

Facilitator: Keith Backman, Dellavalle Laboratory, Inc.

- 8:00-8:15 **Welcome and Recap**  
*Keith Backman, Dellavalle Laboratory, Inc.*
- 8:15-8:45 **Ensuring Authenticity of Fertilizers for Organic Agriculture**  
*Dr. Will Horwath, UC Davis Land, Air and Water Resources*
- 8:45-9:15 **Irrigation and Nitrogen Management Web-Based Software**  
*Dr. Michael Cahn, University Cooperative Extension, Farm Advisor, Monterey County*
- 9:15-9:45 **Site Specific Management to Improve Fertilizer Use Efficiency**  
*Dr. Michael Delwiche, UC Davis Biological and Ag Engineering*
- 9:45-10:00 **Break**
- 10:00-10:30 **Control Release Fertilizer and Nitrification Inhibitors**  
*Richard Smith, UCCE Monterey County*
- 10:30-11:20 **Panel Discussion: Managing Agricultural Nitrogen on the Central Coast**  
*Facilitator: Dr. Amrith Gunasekara, CDFA*  
*Dr. Marc Los Huertos, CSU Monterey Bay*  
*Lisa McCann, Regional Water Board*  
*Kay Mercer, KMI, Inc.*
- 11:20-11:35 **Concluding Remarks**

### CCA and PCA Credits

Certified Crop Adviser and Pest Control Adviser continuing education units have been requested.  
Details will be posted at [www.cdfa.ca.gov/is/ffldrs/frep.html](http://www.cdfa.ca.gov/is/ffldrs/frep.html)



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Address

Postage

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Sacramento, CA 95814-5607

