



<http://ucanr.org/sites/UCNFA/>

**ABCs of Fertilizer and Irrigation Management in English**  
**Center for Applied Horticultural Research**  
**2280 Tamara Lane, San Marcos CA 92084**  
**November 3, 2010                      7:30 am – 2:30 pm**

This program will provide an in-depth training on all essential plant nutrients and their use in fertilizers. In addition, instruction and hands-on demonstrations of fertilizer injectors will be provided. By the end of the program, participants will be able to incorporate Best Management Practices (BMPs) to mitigate fertilizer runoff. The program will be broken down into six areas:

- |  |                                 |
|--|---------------------------------|
| General overview of BMPs                                 | BMPs for Liquid Fertilizers     |
| Overview of nitrogen cycling in watersheds and nurseries | BMPs for Irrigation             |
| BMPs for Granular Fertilizers                            | BMPs for Nursery Infrastructure |

Moderator: Jim Bethke, Farm Advisor, UC Cooperative Extension San Diego County

Presenter: Dr. Don Merhaut, UC Cooperative Extension Specialist for Nursery and Floriculture Crops, UC Riverside

**Continuing Education Units applied for: CCA and Los Angeles Regional Water Quality Control Board Ag Waiver Program.**

Agenda:

7:30 am – 8:00 am	Registration and Refreshments
8:00 am – 9:30 am Welcome and Part 1	A review of key plant physiological concepts will be taught, so that applied concepts of plant nutrition and fertility management, which will be taught during the later half of the course, are clearly understood.
9:30 am – 9:45 am	BREAK
9:45 am – 12 noon Part 2	Each of the essential plant nutrients will be discussed in detail, emphasizing: Cycling of the nutrient in the environment (soil, air, water, and plants) EPA guidelines and state and regional regulations pertaining to that element, if any. Fertilizer formulations containing the element. Participants will be taught how to calculate nutrient content from fertilizers commonly used in the industry. Nutrient disorders of each element will be discussed, emphasizing plant symptoms of deficiencies. Environmental and cultural practices will be discussed that may cause nutrient disorders or reduce the efficiency of nutrient uptake into plants.
12 noon – 12:30 pm	LUNCH sponsored by <a href="#">Grangetto's Farm and Garden Supply</a>
12:30 pm – 2:30 pm Part 3	Fertilizer Management (Best Management Practices). The appropriate use of specific fertilizer formulations will be discussed, with a focus on minimizing fertilizer costs through optimization of nutrient uptake into the plants with minimal nutrient leaching. The use of fertilizer injectors will be demonstrated. Coated Controlled Release Fertilizers Liquid Fertilizers Granular Fertilizers

**Thanks to our sponsors:**





<http://ucanr.org/sites/UCNFA/>

**ABCs of Fertilizer and Irrigation Management in English**  
**Center for Applied Horticultural Research**  
**2280 Tamara Lane, San Marcos CA 92084**  
**November 3, 2010      7:30 am – 2:30 pm**

Please register me for the following educational program:

ABCs of Fertilizer and Irrigation Management in English.....\$65.00 X \_\_\_\_ (number of people) = \$ \_\_\_\_\_

Name		Company	
Daytime Phone	Fax	Address	
Email address		City State Zip	

**Payment by Check:** Mail this form and your registration fees, made payable to **UC Regents**, to UCNFA, C/O Linda Dodge

Plant Sciences Dept. Mailstop 6  
 University of California  
 One Shields Ave.  
 Davis CA 95616

**Additional Sponsors:**



**Credit card payment:** Register online at <http://ucanr.org/sites/UCNFA/>

**Credit card payment:** Mail this completed form to the UCNFA address above or fax in your registration to 530-752-8419

**Payment by Credit Card:**     VISA                     Master Card                     Am Ex                     Discover

Card # \_\_\_\_\_ Verification # \_\_\_\_\_ Exp. date \_\_\_\_\_

Cardholder Name \_\_\_\_\_ Signature \_\_\_\_\_

**Registration Fees:** Prices listed are per person. A confirmation will be emailed or faxed to registrants whose registration is received up to 5 days prior to the seminar. **Late Registration:** Late and at-door registration will be accepted only if space is available and meals cannot be guaranteed.

**Refund Policy:** Refund requests must be received in writing (fax & email is acceptable).

**For more information please contact the UCNFA office at 530-752-8419 (phone/fax) (email: [lldodge@ucdavis.edu](mailto:lldodge@ucdavis.edu))**

UCNFA events are ADA compliant

