

2nd Ag Innovations Conference: Microbial Control

Sunday 13 August, 2017 at The Great Hall, University of California San Diego, La Jolla, CA

This one-day conference is organized in conjunction with the 50th Annual Meetings of the Society for Invertebrate Pathology (SIP) at UC San Diego, La Jolla. The objective of the **2nd Ag Innovations Conference: Microbial Control** is to bring applied microbial control research concepts from around the world to growers, PCAs, and agriculture and ornamental industry partners in Southern California. This extension-focused event will also allow growers to learn more about the potential of microbial control and new products or techniques that can help address local issues. This event will also give researchers an opportunity to understand growers' needs and develop their future projects based on these needs.

Since seating is limited at this venue, early registration is highly encouraged. Please register at <http://ucanr.edu/AIC2017>. Registration fee: \$25.00. Lunch and refreshments will be provided.

A mini agricultural exposition will also be organized at this event where different industry partners will showcase their biopesticides products and microbial control technologies. Contact Surendra Dara at skdara@ucanr.edu or 805-720-1700 for additional information.

7:30 AM *Sign-in*

8:00 AM *Welcome remarks* **Surendra K. Dara**



California Department of Pesticide Regulations: Its mission and challenges with an emphasis on microbial control

CDPR mission and challenges in maintaining environmental safety and agricultural sustainability.

Brian Leahy

Director, California Department of Pesticide Regulations, Sacramento, CA



Pam Marrone

CEO/Founder, Marrone Bio Innovations, Inc., Davis, CA

Leap™: A new dual-action biorational pesticide for plant disease management and insect control

With *Btk* and methyl salicylate active ingredients *Leap™* has dual mode of action against pests and diseases and serves as an important tool in IPM programs.

Russ Eldridge et al.

Product Development Manager, Valent BioSciences, Libertyville, IL

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9:10 AM



Advantages and disadvantages of microbial control of pests in ornamental plant production

Ornamental plants are high valued specialty crops that can afford little pest damage to remain marketable. Current use of microbial control options and their merits and demerits.

James Bethke

CE Advisor and County Director, UC Cooperative Extension, San Diego, CA

9:30 AM



Microbial control of endemic and invasive pest management

Entomopathogens as potential control options for managing endemic and invasive pests on multiple crops in California.

Surendra K. Dara

Strawberry and Vegetable Crops Advisor, UC Cooperative Extension, San Luis Obispo, CA

9:50 AM



Entomopathogenic fungi as plant growth promoters and disease antagonizers

Entomopathogenic fungi play a bigger role than the pathogens of arthropod pests. They improve water absorption and plant growth, and antagonize plant pathogens.

Sumanth S. R. Dara and Suchitra S. Dara

Bakersfield, CA

Coffee Break-Expo Visit 10:15 AM

11:00 AM



Microbial control of weevil pests in turfgrass

Strategies for controlling weevils and billbugs with entomopathogenic fungi, nematodes, and bacteria-based products.

Albrecht Koppenhöfer

Professor/Extension Specialist, Rutgers University, New Brunswick, NJ

11:20AM



Microbial control approaches for pests of fruit and nut trees

Case studies and approaches in managing aphids, borers, and weevils using entomopathogenic bacteria, fungi, and nematodes.

David Shapiro-Ilan

Research Entomologist, USDA-ARS, Byron, GA

11:40AM



The feasibility and benefits of mixed microbial pesticides

Combined applications of *Bacillus thuringiensis* and *Beauveria bassiana* for managing cabbage looper. Strategies for managing similar pests will also be discussed.

Robert Behle

Research Entomologist, USDA-ARS, Peoria, IL

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Lunch Break-Expo Visit

12:00 PM



Update on new and improved microbials and other biopesticides from Certis USA

Several new active ingredients and improved formulations introduced in 2016 and 2017 for conventional and organic crop protection programs in multiple crops in California.

Michael B. Dimock

Vice President, Field Development and Technical Services, Certis USA, Maryland, MD



NPVs for lepidopteran control in vegetable production

Opportunities and challenges of including baculoviruses in insect control strategies. USA and worldwide experiences.

Silvana Niedermann

Area and Product Manager, Andermatt Biocontrol AG, Grossdietwill, Switzerland



Expanding horizons for the versatile Beauveria bassiana strain GHA

Increased potential of BotaniGard and Mycotrol through the development of new formulations and the identification of new targets, sites, and uses.

Daniel Peck

Product Development Manager, BioWorks, Inc., Victor, NY



New microbial pesticides for managing insect pests and plant pathogens

New products based on an entomopathogenic nematode and a biofungicide, their efficacy, and application strategies

Katherine Walker

Technical Service Representative, BASF



Purpureocillium lilacinum – an important fungal biocontrol for integrated control of plant parasitic nematodes

Management of root knot and other plant parasitic nematodes in vegetable crops with a beneficial fungus

Kris Rasmussen

Research Scientist, Bayer Biologics, West Sacramento, CA

Coffee Break-Expo Visit

03:10 PM



Multifaceted approaches to incorporating Entomopathogenic fungi in IPM

Impact of soil application of Entomopathogenic fungi and other materials on pests and diseases in strawberry and microbial control of broad mite in blackberry.

Jimmy Klick

Research Scientist, Driscoll's, Oxnard, CA

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4:20 PM



Microbial control of arthropod pests and disease: perspective of independent private research

Evaluation of microbial control tools for managing major pests and diseases in multiple crops.

Frank Sances

National Director of Research, Pacific Ag Research, Salinas, CA

4:40 PM



BioCeres WP for organic insect control in multiple crops

New formulation based on *Beauveria bassiana* and its target organisms, compatibility with chemical pesticides, application strategies, and intended cropping systems.

Manuel Campos

Technical Agronomist, BioSafe Systems, College Station, TX

5:00-5:30 PM Q&A and General Discussion

[Ag Innovations Conference](#) will be held at The Great Hall located at the International House (at the intersection of International Ln and Thurgood Marshall Ln close to Pangea Parking Structure).

6.0 DPR and CCA Continuing Education Units have been requested



Thanks to the following meeting sponsors for their generous support:

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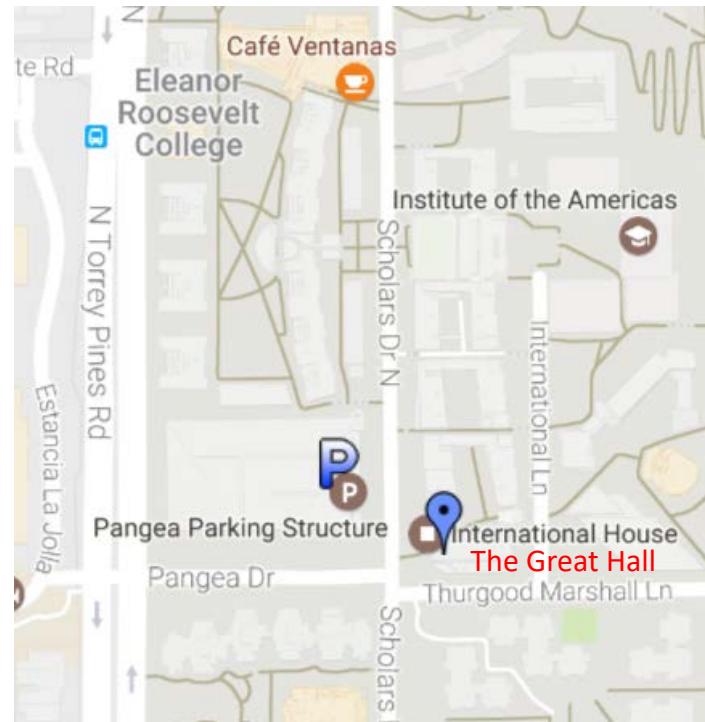
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Parking recommended at Pangea. You can purchase a day permit online for \$8 or pay \$2/hour at the Kiosk.