LED Symposium

Developing LED Lighting Technologies and Practices for Sustainable Specialty-Crop Production

February 20th, 2015
The University of Arizona – CEAC, Tucson, AZ

PROGRAM (schedule subject to change)
Preregistration required

Thursday February 19th

3:00 pm-5:00 pm  CEAC Facilities Tour (optional)
5:30 pm-7:30 pm  Welcome reception

Friday February 20th

8:00 am-8:15 am  Welcome and Introduction – Cary Mitchell and Chieri Kubota
8:15 am-9:00 am  Keynote presentation - “Toward and optimal spectral quality for plant growth and development: Interactions among species and photon flux” Bruce Bugbee - Utah State University

Session 1: Plant responses under supplemental LED lighting in greenhouses

9:00 am-9:25 am  “Using LEDs to regulate flowering of photoperiodic crops” Erik Runkle - Michigan State University
9:25 am-9:50 am  “Can we increase the production efficiency of an indeterminate high-wire tomato crop with LED intracanopy supplemental lighting?” Celina Gómez and Cary Mitchell - Purdue University
9:50 am-10:15 am  “Greenhouse supplemental light quality for vegetable nurseries” Chieri Kubota and Ricardo Hernández – the University of Arizona
10:15 am-10:30 am  BREAK
10:30 am-10:45 am  “Exploring plant UV Interactions with greenhouse tomatoes: stress, flavor, and phytochemicals” Michael Dzakovich and Cary Mitchell - Purdue University
10:45 am-11:30 am  Discussion (all speakers)
11:30-12:30 pm  **LUNCH**

**Session 2: Plant responses under sole-source LED lighting**

12:30 pm-12:55 pm  “B:R PF ratios for the production of vegetable transplants”  
Ricardo Hernández - The University of Arizona

12:55 pm-1:20 pm  “Comparison of light qualities and daily light integrals for sole source lighting of bedding plant plugs and microgreens”  
Roberto Lopez and Joshua Craver - Purdue University

1:20 pm-1:35 pm  “Tomato transplant production under sole-source LEDs”  
Diana Vercillo – Grafted Growers

1:35 pm-1:50 pm  “Plant production under LEDs – an overview of worldwide applications”  
Ron DeKok – Philips Lighting

1:50 pm-2:35 pm  Discussion (all speakers)

2:35 pm-2:50 pm  **BREAK**

**Session 3: LED technology development, evaluation, and economics**

2:50 pm-3:15 pm  “LED economics, consumer issues and life impact assessment”  
John Burr - Purdue University

3:15 pm-3:40 pm  “Measuring LED lamps for horticulture”  
A.J. Both - Rutgers University

3:40 pm-3:55 pm  “LED technology development”  
Bob Morrow - ORBITECH

3:55 pm-4:10 pm  “Advanced LED technology and photobiology – much more than energy savings”  
Titta Kotilainen - Valoya

4:10 pm-4:50 pm  Discussion (all speakers)

4:50 pm-5:00 pm  Concluding remarks

5:30 pm-7:30 pm  **LED SCRI advisory meeting (invitation required)**