

The Ohio Controlled Environment Agriculture Center (OHCEAC) Presents:

**Advancement of Sustainable Controlled Environment
Crop Production Sciences and Technologies**

Tentative Conference Schedule – Subject to Change

TUESDAY, JULY 18TH

5:00-7:00 PM OHCEAC Welcome Reception at Hofbräuhaus Columbus
Sponsored by CropKing, Hort Americas, Innovative Growers Equipment –
Hydrofarm Commercial Division, Matrix Sciences, Sollum Technologies, TotalGrow
Lights & Valoya Inc.

WEDNESDAY, JULY 19TH – All times are in Eastern Time (ET)

8:15-8:30 AM Welcome and Introductions
Chieri Kubota, PhD – OHCEAC Director, Ohio State University

Keynote Presentations Session 1 | Moderator: Uttara Samarakoon – Ohio State University

8:30-9:10 AM New Concepts for Managing Soilless Substrates for Sustainability & Crop Growth
James Altland, PhD – USDA-ARS

9:10-9:15 AM Q&A Session

9:15-9:55 AM Turning Photons into Food
Bruce Bugbee, PhD – Utah State University

9:55-10:00 AM Q&A Session

10:00-10:15 AM Break

Keynote Presentations Session 2 | Moderator: Chieri Kubota – Ohio State University

10:15-10:55 AM Advancement of Plant Sensing Technology for Sustainable Crop Production
Under Controlled Environment
Murat Kacira, PhD – University of Arizona

10:55-11:00 AM Q&A Session

11:00-11:40 AM Indoor Precision Propagation of Horticultural and Industrial Crops
Ricardo Hernández, PhD – NC State University

11:40-12:10 PM Discussion Session

12:10-12:45 PM Lunch (Provided for In-Person Attendees)

12:45-1:20 PM 5 Minute Sponsor Presentations



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Research Presentation Session | Moderator: Darren Drewry – Ohio State University

- 1:20-1:40 PM Precision Spray Improves CEA Sustainability
Peter Ling, PhD – Ohio State University
- 1:40-2:00 PM Managing Nighttime Greenhouse Light Emissions
Fadi Al-Daoud, PhD – OMAFRA
- 2:00-2:20 PM Using Beneficial Microbes to Reduce Fertilizer Inputs During Greenhouse Production
Michelle Jones, PhD – Ohio State University
- 2:20-2:40 PM Leveraging Environmental Controls to Improve Crop Quality
Kellie Walters, PhD – University of Tennessee
- 2:40-3:00 PM Break
- 3:00-3:20 PM Development of Sensing Technologies for Detection of Pest and Diseases
Luis Cañas, PhD – Ohio State University
- 3:20-3:40 PM Reimagining Controlled Environment in a Low-Carbon World
Brendan Higgins, PhD – Auburn University
- 3:40-4:00 PM Nutrient Optimization for Kale and Collard in Hydroponics
Uttara Samarakoon, PhD – Ohio State University
- 4:00-4:20 PM Sole-Source Lighting for Indoor Strawberry Production
Yujin Park, PhD – Arizona State University
- 4:20-5:00 PM Discussion Session
- 5:00-6:05 PM CEARC Tours (In-Person Activity)

