



THE UNIVERSITY OF ARIZONA
BIOSYSTEMS ENGINEERING

Controlled Environment
Agriculture Center

21st Annual

Greenhouse Crop Production and Engineering Design Short Course

MARCH 7

8:15 – 8:30 am

Welcome and Introductions by Dr. Murat Kacira

FUNDAMENTALS OF HYDROPONICS & CONTROLLED ENVIRONMENT AGRICULTURE (CEA):

8:30 – 9:15 am

Topic TBD

Dr. Merle Jensen- Professor Emeritus, School of Plant Sciences, The University of Arizona

9:15 – 10:00 am

Hydroponics, Medium Composition & Delivery Systems

Dr. Triston Hooks- Professor, Biosystems Engineering, The University of Arizona

10:00 – 10:20 am

Discussion of Previous Lectures, Q&A

10:20 – 10:50 pm

Break/ Exhibitor Networking

10:50 – 11:05 pm

3. 5 minute presentations from Sponsors/Exhibitors

11:05 – 11:50 am

Managing Plant Nutrition for Crop Production Optimization

Dr. Stacy Tollefson- Director of Cultivation, Aeriz

11:50- 12:00 pm

Discussion of Previous Lecture, Q&A

12:00- 1:00pm

Lunch Provided

1:00pm- 1:15pm

3, 5 minute presentations from Sponsors/Exhibitors

1:15pm- 2:00 pm

Greenhouse Design- Structures, Glazing, & Cooling

Dr. Gene Giacomelli- Professor, Biosystems Engineering, The University of Arizona

2:00pm- 2:10pm

Discussion of Previous Lecture, Q&A

2:10pm- 3:30pm

CEAC Tour (2 stations)/ Exhibitor Networking



MARCH 8

Title TBD:

8:30 – 9:15 am	Monitoring Your Greenhouse Environment: Simple Tools to Technology Trends Dr. Murat Kacira- Professor, Biosystems Engineering, The University of Arizona
9:15 – 10:00 am	Integrated Pest Management Dr. Kai-Shu Ling- Research Plant Pathologist, USDA- Agricultural Research Service
10:00 – 10:20 am	Discussion of Previous Lectures, Q&A
10:20 – 10:50 pm	Break/ Exhibitor Networking
10:50 – 11:05 pm	3. 5 minuite presentations from Sponsors/Exhibitorts
11:05 – 11:50 am	Automation in CEA Eric Highfield- Founder, High Yield Horticulture
11:50- 12:00 pm	Discussion of Previous Lecture, Q&A
12:00- 1:00pm	Lunch Provided
1:00pm- 1:15pm	3, 5 minute presentations from Sponsors/Exhibitors
1:15pm- 2:00 pm	Fundamentals of Supplemental and Sole Course Lighting for CEA Dr. Roberto Lopez- Professor, Michigan State University
2:00pm- 2:10pm	Discussion of Previous Lecture, Q&A
2:10pm- 3:30pm	CEAC Tour (2 stations)/ Exhibitor Networking





MARCH 9

Title TBD:

8:30 – 9:15 am	Hemp in CEA Dr. Hope Jones- Founder & CEO, Emergent Cannabis Sciences
9:15 – 10:00 am	Strawberries Production and Technologies Dr. Cheri Kubota- Professor of Horticulture and Crop Science, Ohio State University
10:00 – 10:20 am	Discussion of Previous Lectures, Q&A
10:20 – 10:50 pm	Break/ Exhibitor Networking
10:50 – 11:05 pm	3. 5 minuite presentations from Sponsors/Exhibitorts
11:05 – 11:50 am	Mushrooms in CEA Dr. Barry Pryor-Professor, School of Plant Sciences, University of Arizona
11:50- 12:00 pm	Discussion of Previous Lecture, Q&A
12:00- 1:00pm	Lunch Provided
1:00pm- 1:15pm	3, 5 minute presentations from Sponsors/Exhibitors
1:15pm- 2:00 pm	Aquaponics in CEA Dr. Matthew Recsetar- Adjunct Lecturer, Biosystems Engineering, University of Arizona
2:00pm- 2:10pm	Discussion of Previous Lecture, Q&A
2:10pm- 3:30pm	CEAC Tour (2 stations)/ Exhibitor Networking

