

UA-CEAC's 2021 Online Greenhouse Crop Production & Engineering Design Short Course



20TH ANNUAL CEAC GREENHOUSE CROP PRODUCTION & ENGINEERING DESIGN SHORT COURSE

Wednesday- March 3rd, 2021

| 10:00am-10:10am- | Welcome and Introductions |
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| 10:10am-10:50am- | Controlled Environment Greenhouse and Hydroponics- Limitless Opportunity Dr. Merle Jensen, Professor Emeritus, School of Plant Sciences, The University of Arizona, Founder of the UA-CEAC in 2000 |
| 10:50am-11:00am- | Questions |
| 11:00am-11:40pm- | Hydroponics, Medium Composition & Delivery Systems Myles Lewis, MS, Owner, Arizona Vegetable Company & Instructor, CEAC Leafy Greens Intensive Workshop |
| 11:40pm-11:50pm- | Questions |
| 11:50pm-12:00pm- | 10min Break |
| 12:00pm-12:40pm- | Managing Plant Nutrition for Quality Crop Production Dr. Stacy Tollefson – Professor of Practice, Biosystems Engineering, The University of Arizona Instructor, CEAC Tomato Intensive Workshop |
| 12:40pm-12:50pm- | Questions |
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| 12:50pm-1:30pm- | Greenhouse Structures- Glazing and Environmental Control Dr. Gene Giacomelli – Professor, Biosystems Engineering, The University of Arizona |
| 12:50pm-1:30pm- 1:30pm-1:40pm- | \overline{z} |
| | Dr. Gene Giacomelli – Professor, Biosystems Engineering, The University of Arizona |
| 1:30pm-1:40pm- | Dr. Gene Giacomelli – Professor, Biosystems Engineering, The University of Arizona Questions |
| 1:30pm-1:40pm- 1:40pm- 1:50pm- | Dr. Gene Giacomelli – Professor, Biosystems Engineering, The University of Arizona Questions 10 min Break Monitoring Your Greenhouse Environment: Simple Tools to Technology Trends Dr. Murat Kacira – Professor, Biosystems Engineering, The University of Arizona |
| 1:30pm-1:40pm- 1:40pm- 1:50pm- 1:50pm- 2:30pm- | Dr. Gene Giacomelli – Professor, Biosystems Engineering, The University of Arizona Questions 10 min Break Monitoring Your Greenhouse Environment: Simple Tools to Technology Trends Dr. Murat Kacira – Professor, Biosystems Engineering, The University of Arizona Director, University of Arizona's Controlled Environment Agriculture Center |

Wednesday- March 10th, 2021:

| 10:00am-10:40am- | Pest Identification and Control Strategies Dr. Stacy Tollefson – Professor of Practice, Biosystems Engineering, The University of Arizona Instructor, CEAC Tomato Intensive Workshop |
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| 10:40am-10:50am- | Questions |
| 10:50am-11:30am- | Fundamentals on Supplemental and Sole Source Lighting for CEA Dr. Erik Runkle, Professor, Department of Horticulture, Michigan State University |
| 11:30am-11:40am- | Questions |
| 11:40am-11:50am- | 10 min Break |
| 11:50pm-12:10pm- | CEAC Mission Award Sponsor/ Exhibitor Presentations |
| 12:10pm-12:50pm- | Fertigation Systems in CEA Dr. Neil Mattson, Professor, School of Integrative Plant Science Horticulture Section, Cornell University |
| 12:50pm-1:00pm- | Questions |
| 1:00pm- 1:30pm- | Panel 1 |
| 1:30pm-1:40pm- | 10 min Break |
| 1:40pm-2:10pm- | Breakout Rooms/ Networking |
| 2:10pm-2:50pm- | Elements for a Successful Urban Ag Start-Up Jenn Frymark, Chief Greenhouse Officer, Gotham Greens |
| 2:50pm-3:00pm- | Questions |

Wednesday- March 17th, 2021:

| 10:00am-10:40am- | Fundamentals of Hemp- Opportunities and Challenges in the Industry Dr. Hope Jones, Founder & CEO, Emergent Cannabis Sciences |
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| 10:40am-10:50am- | Questions |
| 10:50am-11:20am- | Panel 2 |
| 11:20am-11:35pm- | Sponsor/ Exhibitor Presentations |
| 11:45am-11:55am- | 10 min Break |
| 11:55pm-12:35pm- | Plant Based Environmental Control Dr. Leo Marcelis, Professor of Horticulture and Product Physiology, Wageningen University |
| 12:35pm- 12:45pm | Questions |
| 12:45pm-1:15pm- | Breakout Rooms/ Networking (30 min) |
| 1:15pm- 1:25pm | 10 min Break |
| 1:25pm-2:05pm | Organic Hydroponic Food Production Speaker TBD |
| 2:05pm- 2:15pm | Questions |
| 2:15pm- 2:55pm | Mushrooms in CEA Dr. Barry Pryor, Professor, School of Plant Sciences, The University of Arizona |
| 2:55pm- 3:05pm | Questions |