

## NCERA-101 Annual Meeting Agenda

Committee on Controlled Environment Technology and Use  
November 15-17, 2021



MICHIGAN STATE  
UNIVERSITY

[Register online](#) via Zoom, then join the meeting using the E-mail link sent

### Monday, November 15

(Note: All times Eastern)

1:00-2:50pm Business Meeting & Member Awards

2:50-3:00pm Break

3:00-4:30pm Business Meeting, continued

#### Business meeting agenda

- Introduction and Welcoming Remarks from meeting hosts (Erik Runkle & Roberto Lopez) and Doug Buhler (MSU Assistant Vice President of Research & Innovation)
- Introduction to the meeting agenda and virtual conference procedures (Erik Runkle)
- Introduction of the NCERA-101 Executive Officers (Neil Yorio)
- Approval of Minutes from 2019 (Murat Kacira)
- Announcements of Other Relevant Conferences (All)
- Administrative Advisor's Report (Ramesh Kanwar)
- USDA/NIFA Representative Report (Brad Reins)
- Membership Report (Mark Romer)
  - 20-year membership awards (Mark Romer)
- Website Report (Carole Saravitz)
- Guidelines
  - ASABE Standards efforts (Mark Lefsrud)
    - PAFS – 30 - X653 Recommended Practice for Heating, Ventilation and Air Conditioning (HVAC), and Lighting Systems Used for Indoor Plant Growth without sunlight. *Under final review and anticipated to be published January 2022.*
    - ES-311 - X644 Performance Criteria for Optical Radiation Devices and Systems Installed for Plant Growth and Development. *On hold and anticipated to be published in 2022 (TBD).*
    - ES-311 - S642 - *Recommended Methods of Measurements and Testing for LED Radiation Products for Plant Growth and Development. Published.*
    - ES-311 - S640 - Definition of Metrics of Radiation for Plant Growth (Controlled Environment Horticulture) Applications. *Up for renewal/modification potentially including the addition of ePAR.*
  - CEADS (Controlled Environment Agriculture Design Standards) - overall sustainability rating of facilities (Gary Stutte)
- Instrument Package & Financial Report (Bruce Bugbee)
- Graduate Student Update (Jonathan Frantz)
- Future Meetings:
  - 2022 - University of Arizona (International Meeting) – Murat Kacira's team hosting
  - 2023 – Need a host and venue

- 2024 - Iowa State University – Chris Currey’s team hosting
- 2025 and beyond – Nominations?
- Nomination & Election of New Secretary (Neil Yorio)
- NCERA-101 membership growth (Bruce Bugbee)
  - Industry member minimum sponsorship (registration)
  - Abstract submission/approval for presentations
- New Business (All)

## **Tuesday, November 16**

1:00-2:40pm Scientific/Academic Station Reports (10 min each). Moderated by Erik Runkle (Michigan State Univ.)

- Bruce Bugbee, Utah State Univ.
- Cary Mitchell, Purdue Univ.
- Qingwu Meng, Univ. of Delaware
- Genhua Niu, Texas A&M Univ.
- Joshua Craver, Colorado State Univ.
- Dave Fleisher, USDA-ARS
- Neil Mattson, Cornell Univ.
- Celina Gomez, Univ. of Florida

2:40-2:50pm Break

2:50-3:30pm Industry Reports (5 min each). Moderated by Patrick Friesen (BioChambers)

- Percival Scientific
- Corteva
- Li-Cor
- JR Peters
- Apogee Instruments
- SyNRGE
- Karma Verde Fresh

3:30-4:30pm Student Lightning Talks

## **Wednesday, November 17**

1:00-2:40pm Scientific/Academic Station Reports (10 min each). Moderated by Mark Lefsrud (McGill Univ.)

- Roberto Lopez, Michigan State Univ.
- A.J. Both, Rutgers Univ.
- Yujin Park, Arizona State Univ.
- Ricardo Hernandez, North Carolina State Univ.
- Peter Ling and Chieri Kubota, Ohio State Univ.
- Carole Saravitz, North Carolina State Univ.
- Marc van Iersel, Univ. of Georgia
- Shamin Ahamed, Univ. of California – Davis

2:40-2:50pm Break

2:50-3:10pm Industry Reports (5 min each). Moderated by Roberto Lopez (Michigan State Univ.)

- Sierra Space

- Candidus
- Plenty

3:10-4:00pm Scientific/Academic Station Reports (10 min each). Moderated by Roberto Lopez (Michigan State Univ.)

- John Lea-Cox, Univ. of Maryland
- Kellie Walters, Univ. of Tennessee
- Murat Kacira and Gene Giacomelli, Univ. of Arizona
- Mark Lefsrud, McGill Univ.