

**2018 NCERA-101 Annual Meeting Agenda**  
**APRIL 15 TO 18, 2018**  
**at the**  
**Sheraton Raleigh Hotel**  
**421 S Salisbury St**  
**Raleigh, North Carolina**

**Sunday**

**15-Apr**

2:30-6:00 PM Open Registration (Esplanade)  
3:00-5:30 PM ASHS meeting in the afternoon (Capital Room)  
Poster & Exhibit Setup (Oak Ballroom)  
6:00-9:30 PM Opening Reception with hors d'oeuvres (Governors I &II)

**Monday**

**16-Apr**

7:30-8:30 AM Breakfast (Oak Ballroom)  
Registration (Esplanade)  
Exhibit & Poster Setup (Oak Ballroom)  
8:30-10:00 AM Meeting Welcome (Dr. John Dole, Associate Dean)  
Business Meeting/Station Reports (Oak Ballroom)  
10:00-10:30 AM Morning Break/Exhibits/Posters (Oak Ballroom & Esplanade)  
10:30-12:00 PM Station Reports (Oak Ballroom)  
12:00-1:00 PM Lunch (Geoff Bock- Plant Sciences Initiative) (Oak Ballroom)  
1:00-3:00 PM Station Reports/lightning talks (Oak Ballroom)  
3:00 - 3:30 PM Afternoon Break/Exhibits/Posters (Oak Ballroom & Esplanade)  
3:30-5:30 PM Station Reports (Oak Ballroom)  
6:30-9:30 PM Banquet – Celebrating the 50th Anniversary of the NCSU & Duke  
Phytotrons (Oak Ballroom)

**Tuesday**

**17-Apr**

7:30-8:30 AM Breakfast (Oak Ballroom & Esplanade)  
8:30-11:00 AM Station Reports (Oak Ballroom)  
11:00-11:30 AM Morning Break/Exhibits (Oak Ballroom & Esplanade)  
11:30-1:00 PM Station Reports (Oak Ballroom)  
1:30-2:30 PM Lunch at the J.C Raulston Arboretum  
3:00-5:00 PM Tour the NCSU Phytotron and the Horticultural Field Labs (HFL)  
5:30 PM Return to hotel  
6:30 -9:30 PM Night at the Museum (North Carolina Museum of Natural Sciences)

**Wednesday**

**18-Apr**

7:00 AM Bus departs from Sheraton  
7:15-8:30 AM Breakfast at the J.C Raulston Arboretum  
9:00AM-5:30 PM Duke Phytotron, Syngenta, Bayer Cropscience & Agbiome (Lunch will  
be at Syngenta)  
6:30 PM Organized Dinner at Trophy Tap + Table-pay your own way (We will  
take a head count on Monday during the meeting)

**NCERA-101 Business Meeting Agenda**  
**Raleigh, North Carolina**  
**April 16, 2018**

- Approval of Minutes from 2017 (Yorio)
- Announcements of Other Relevant Conferences
- Administrative Advisor's Report (Kanwar)
- NIFA Representative Report (TBD)
- Membership Report (Romer)
- Website Report (Saravitz)
- Travel Grant Update ([Frantz](#))
- Guidelines
  - ASABE Standards efforts (Lefsrud)
    - PAFS – 30 - X653 Recommended Practice for Heating, Ventilation and Air Conditioning (HVAC), and Lighting Systems Used for Indoor Plant Growth without sunlight
    - ES-311 - X644 Performance Criteria for Optical Radiation Devices and Systems Installed for Plant Growth and Development
    - ES-311 - X642 - *Recommended Methods of Measurements and Testing for LED Radiation Products for Plant Growth and Development.*
    - ES-311 - X640 - Definition of Metrics of Radiation for Plant Growth (Controlled Environment Horticulture) Applications
    - ES-311 - EP344.4 - Lighting Systems for Agricultural Facilities (Revising)
  - Controlled environment research data sharing guidelines (Kubota/Runkle)
  - Standardized labeling for LED lighting products (Jia)
- Instrument Package & Financial Report (Bugbee)
- Future Meetings:
  - 2019 Montreal – Mark Lefsrud
    - Tour policy for upcoming meeting
    - Travel support letter
  - 2020 Arizona – Murat Kacira
  - 2021 Michigan - Erik Runkle
  - 2022 and beyond –Iowa, West Virginia, ???
- Election of New Secretary
- New Business
  - Continuing Education Engineering Credits discussion (TBD)
  - Getting institutional approval for attending meeting and tours (Massa)
  - Possibility of setting up exec positions as 2 year obligation
  - Other New Business?

## Student Presentations

First name	Last name	Institution
Hans	Spalholz	NCSU
Andrew	Johnson	USC
Eshwar	Ravishankar	NCSU
Brandon	Huber	NCSU
Haijie	Dou	Texas A&M University
Paul	Kusuma	Utah State University
Meng	Qingwu	Michigan State University
Thomas	McKean	Ohio State
Mengzi	Zhang	Michigan State University
Joshua	Craver	Michigan State University
Dan	Gillespie	Ohio State
Kellie	Walters	Michigan State University
William	Wheeler	Utah State University
Charlie	Garcia	Michigan State University
Xiangnan	Xu	NCSU
Amirah	Burton	NCA&T
Erica	Hernandez	Cornell University

## NCERA Station Report Schedule

Mon

AM-1 10:45 - 12:00

Erik	Runkle	Michigan State University
Carole	Saravitz	N C State
Robert	Morrow	SNC/ORBITEC
Neil	Yorio	BIOS
Ed	Harwood	AeroFarms
Chieri	Kubota	University of Arizona
Murat	Kacira	University of Arizona
Cameron	Willingham	Vertical Harvest Hydroponics

Mon

PM-1 1:30 - 3:00

Gary	Stutte	SyNRGE, LLC
Gary	Gardner	University of Minnesota
Rachelle	Winningham	Phillips
Mark	Blonquist	Apogee
Melanie	Yelton	LumiGrow
Ray	Wheeler	NASA Kennedy Space Center
Neil	Mattson	Cornell University
John	Lea-Cox	University of Maryland
AJ	Both	Rutgers University

Tues

AM-1 9:00 - 10:00

Reg	Quiring	Conviron
Celina	Gomez	University of Florida
Cary	Mitchell	Purdue University
Daniel	Kiekhaefer	Percival Scientific
Zach	Yohannes	AXP Technology
Ricardo	Hernandez	NC State University

Tues

AM-2 10:30 - 11:30

Mark	Lefsfrud	McGill University
Mike	Dixon	University of Guelph
Bjorn	Karlsson	University of Wisconsin-Madison Biotron
David	Bubenheim	NASA Ames Research Center
Alexander	Litvin	Iowa State University
John	Lea-Cox	University of Maryland

Tues

PM-1 3:30 - 5:00

Bruce	Bugbee	Utah State
Murat	Kacira	The University of Arizona
Nicholas	Klase	Fluence
Mark	van Iersel	University of Georgia
Viktor	Tishchenko	Univ of Georgia
Lars	Aikala	Valoya
Meriam	Karlsson	University of Alaska
		Apache