



# 2015 AERGC/NCERA-101 JAM Agenda

## Wednesday, July 08, 2015

|                   |                                                                                                                    |                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4:00 pm – 7:00pm  | Registration, Blackwell Lobby                                                                                      |                                                                                                                                                                                                                                                                          |
| 4:00 pm – 6:00pm  | <b>AERGC Executive Meeting</b><br>Knowlton Hall Lobby<br><b>NCERA 2016 Meeting Planning</b><br>Knowlton Hall Lobby | <b>Informal Tours Ag Campus Greenhouses</b><br>Take CLS to Ag Campus stop or walk to Howlett Hall<br>Tours start every half hour<br>(Howlett GH (Horticulture and Crop Science), Howlett Green Roof,<br>Ornamental Plant Germplasm Center, Kottman GH (Plant Pathology)) |
| 6:15 pm – 9:00 pm | <b>Welcome Reception, Sponsor Meet &amp; Greet</b><br>Blackwell Patio                                              |                                                                                                                                                                                                                                                                          |
|                   |                                                                                                                    |                                                                                                                                                                                                                                                                          |

## Thursday, July 09, 2015

|                   |                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:30 am – 9:00 am | Registration, Blackwell Lobby                                                                                                                        |
| 7:15 am – 8:15 am | Breakfast, Blackwell Ballroom                                                                                                                        |
| 7:45 am – 8:00 am | <b>Sponsor Roll Call, Blackwell Ballroom</b>                                                                                                         |
| 8:00am – 9:00 am  | <b>Sponsor Roundtable, Blackwell Ballroom</b>                                                                                                        |
| 9:00 am - 9:30 am | Travel to Center for Applied Plant Sciences (CAPS)<br>Take CLS & Shuttles to Bevis Hall<br>Poster Session open in 100 BioTech Support Facility (BSF) |

|                     |                                |                             |                             |                             |                              |                             |                              |                              |
|---------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
| 9:30 am – 3:00 pm   | Demonstrations and Tours, CAPS |                             |                             |                             |                              |                             |                              |                              |
| 9:30 am – 11:30 am  | <b>Group A</b>                 | <b>Group B</b>              | <b>Group C</b>              | <b>Group D</b>              | <b>Group E</b>               | <b>Group F</b>              | <b>Group G</b>               | <b>Group H</b>               |
| 9:30 - 9:55 am      | ABRC                           | TML<br>RH 205               | Trellis Demo<br>RH 102      | Demo 1<br>BSF<br>Chamber #6 | Demo 2<br>BSF 114            | Demo 3<br>BSF 122           | Demo 4<br>BSF 124            | Poster<br>Session<br>BSF 100 |
| 10:00 – 10:25 am    | TML<br>RH 205                  | Trellis Demo<br>RH 102      | Demo 1<br>BSF Chamber<br>#6 | Demo 2<br>BSF 114           | Demo 3<br>BSF 122            | Demo 4<br>BSF 124           | Poster<br>Session<br>BSF 100 | ABRC                         |
| 10:30 - 10:55 am    | Trellis Demo<br>RH 102         | Demo 1<br>BSF<br>Chamber #6 | Demo 2<br>BSF 114           | Demo 3<br>BSF 122           | Demo 4<br>BSF 124            | Poster Session<br>BSF 100   | ABRC                         | TML<br>RH 205                |
| 11:00 – 11:25 am    | Demo 1<br>BSF<br>Chamber #6    | Demo 2<br>BSF 114           | Demo 3<br>BSF 122           | Demo 4<br>BSF 124           | Poster<br>Session<br>BSF 100 | ABRC                        | TML<br>RH 205                | Trellis Demo<br>RH 102       |
| 11:30 am – 12:45 pm | Lunch, Beekman Park            |                             |                             |                             |                              |                             |                              |                              |
| 1:00 pm – 3:00 pm   | <b>Group A</b>                 | <b>Group B</b>              | <b>Group C</b>              | <b>Group D</b>              | <b>Group E</b>               | <b>Group F</b>              | <b>Group G</b>               | <b>Group H</b>               |
| 1:00 – 1:25 pm      | Demo 2<br>BSF 114              | Demo 3<br>BSF 122           | Demo 4<br>BSF 124           | Poster Session<br>BSF 100   | ABRC                         | TML<br>RH 205               | Trellis Demo<br>RH 102       | Demo 1<br>BSF<br>Chamber #6  |
| 1:30 – 1:55 pm      | Demo 3<br>BSF 122              | Demo 4<br>BSF 124           | Poster Session<br>BSF 100   | ABRC                        | TML<br>RH 205                | Trellis Demo<br>RH 102      | Demo 1<br>BSF<br>Chamber #6  | Demo 2<br>BSF 114            |
| 2:00 – 2:25 pm      | Demo 4<br>BSF 124              | Poster Session<br>BSF 100   | ABRC                        | TML<br>RH 205               | Trellis Demo<br>RH 102       | Demo 1<br>BSF<br>Chamber #6 | Demo 2<br>BSF 114            | Demo 3<br>BSF 122            |
| 2:30 – 3:00 pm      | Poster session<br>BSF 100      | ABRC                        | TML<br>RH 205               | Trellis Demo<br>RH 102      | Demo 1<br>BSF<br>Chamber #6  | Demo 2<br>BSF 114           | Demo 3<br>BSF 122            | Demo 4<br>BSF 124            |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <b>Demo 1: Spectroradiometer:</b> Jimmy & Rebecca Gustafsson, Heliospectra, Rachelle Wunningham, Phillips<br><b>Demo 2: Air Movement:</b> Sylvia Courney, CGS, James Kleinke, Shaefer Fans<br><b>Demo 3: Measurement of surface reflectance for diagnosing plant health:</b> Mark Blomquist, Apogee<br><b>Demo 4: Soil/ Root Zone Measurements:</b> Corey Spence, Argus<br><b>Poster session</b> (break snacks): NCERA-101 grad students<br><b>Trellis Demo- Greenhouse Management Software:</b> Joan Leonard, OSU<br><b>ABRC (Arabidopsis Biological Resource Center) Tour:</b> Chris Calhoun and Diana Shin, ABRC<br><b>TML (Targeted Metabolomics Lab) Tour:</b> Christophe Cocouron and Donnalyn Roxey, CAPS |
| 3:00pm - 3:30 pm   | <b>Travel to Main Campus</b><br>CLN and CLS buses to St. John Arena, walk to Stadium Rotunda                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3:45 pm – 4:45 pm  | <b>Zero Waste Tour of Ohio Stadium</b><br>Tony Guillund, Energy Services and Sustainability, The Ohio State University                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6:00 pm – 7:00 pm  | <b>Ohio Wine &amp; Beer Tasting</b> , Blackwell Ballroom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 7:00 pm – 8:00 pm  | <b>Dinner</b> , Blackwell Ballroom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 8:00 pm – 9:00 pm  | <b>Anniversary Presentations</b> , Blackwell Ballroom<br>Ted Tibbitts & Mark Romer, NCERA-101 40 <sup>th</sup> Anniversary<br>Jennifer Simek, AERGC 30 <sup>th</sup> Anniversary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9:00 pm – 11:00 pm | <b>Mix &amp; Mingle</b> , Blackwell Ballroom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Friday, July 10, 2015

|                    |                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------|
| 7:00am – 7:45 am   | <b>Breakfast 2 Go</b> , Blackwell Lobby<br>Board buses at 7:30 AM -Departure at 7:45 AM             |
| 7:45am – 9:30 am   | <b>Travel to Wooster</b>                                                                            |
| 9:40 am – 10:00 am | <b>OARDC Welcome Remarks</b><br>Dr. Steven Slack, OARDC Director<br><b>OARDC Tours Introduction</b> |
| 9:30 – 12:00 pm    | <b>Tours</b>                                                                                        |

|                      | Group A/B                                                                                                                                | Group C/D                                          |                  | Group E/F                                          | Group G/H                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------|----------------------------------------------------|------------------------------------------------|
| 10:00 am – 10:30 am  | Gourley GH Tour                                                                                                                          | Gourley GH Tour                                    | 10:00 – 10:20 am | PAAR, Ag Eng Tour                                  | Ag Eng, PAAR Tour                              |
| 10:30am – 11:10 am   | Williams GH Tour stop 1<br>Williams GH Tour stop 2                                                                                       | Williams GH Tour stop 1<br>Williams GH Tour stop 2 | 10:20 – 10:40 am | Gourley GH Tour                                    | Gourley GH Tour                                |
| 11:10 am – 11:50 am  | PAAR, Ag Eng Tour                                                                                                                        | Ag Eng/PAAR Tour                                   | 10:45 – 11:50 am | Williams GH Tour stop 1<br>Williams GH Tour stop 2 | Williams GH Tour stop<br>Williams GH Tour stop |
| 11:50 am - -12:00 pm | Bus to Secrest Arboretum                                                                                                                 |                                                    |                  | Bus to Secrest Arboretum                           |                                                |
| 12:00 pm – 12:30 pm  | Lunch                                                                                                                                    |                                                    |                  | Secrest Tour 1                                     | Secrest Tour 2                                 |
| 12:40pm – 1:20pm     | Secrest Tour 1                                                                                                                           | Secrest Tour 2                                     |                  | Lunch                                              |                                                |
| 1:20pm – 1:30 pm     | Return to Shisler Center                                                                                                                 |                                                    |                  |                                                    |                                                |
| 1:30 pm – 2:00 pm    | OARDC: From Tornado to Tomorrow<br>Michelle Jones and Brian Hanna, The Ohio State University                                             |                                                    |                  |                                                    |                                                |
| 2:00 pm – 2:30 pm    | Plant and Animal Agrosecurity Research Facility<br>Juliette Hanson, The Ohio State University                                            |                                                    |                  |                                                    |                                                |
| 2:30 pm – 3:00 pm    | Horticultural Lighting Standards<br>Erik Runkle, Michigan State University                                                               |                                                    |                  |                                                    |                                                |
| 3:00 pm – 3:15 pm    | AERGC Travel Grant Presentation: Atop a Residence Hall: A Tale of Two Years Operational<br>Thomas Bryan, University of Wisconsin-Madison |                                                    |                  |                                                    |                                                |
| 3:15 pm – 3:30 pm    | AERGC Travel Grant Presentation: Institute of Agriculture at University of Tennessee<br>Lori Osburn, University of Tennessee             |                                                    |                  |                                                    |                                                |
| 3:30 pm – 3:45 pm    | Afternoon Break                                                                                                                          |                                                    |                  |                                                    |                                                |
| 3;45pm – 4:15 pm     | Moisture Sensing & Irrigation Controls<br>Mark van Iersel, University of Georgia                                                         |                                                    |                  |                                                    |                                                |
| 4:15 pm – 4:45 pm    | LED Lighting Research<br>Cary Mitchell/SRCILED, Purdue University                                                                        |                                                    |                  |                                                    |                                                |
| 4:45pm – 5:15 pm     | Sustainable Approaches to Greenhouse Heating<br>Jim Kramer, Delta T Solutions                                                            |                                                    |                  |                                                    |                                                |
| 5:15 pm - 6:15 pm    | Happy Hour                                                                                                                               |                                                    |                  |                                                    |                                                |

|                 |                                                           |
|-----------------|-----------------------------------------------------------|
| 6:15 pm -8:00pm | Dinner, Shisler Center<br>Entertainment, Ohio Light Opera |
| 8:00pm -9:30 pm | Travel to Columbus                                        |

## Saturday, July 11, 2015

|                      |                                                                                                                                                                                             |                                              |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 7:30 am – 4:00 pm    |                                                                                                                                                                                             |                                              |
| 7:15 am – 8:00 am    | Breakfast, Blackwell                                                                                                                                                                        |                                              |
| 8:00 am – 8:30 am    | <b>Reporting Guidelines for Greenhouse Experimentation</b><br>A.J. Both, Rutgers University                                                                                                 |                                              |
| 8:30 am – 9:00 am    | <b>Small-to-Large Scale Imaging Technologies for Your Growth Facility</b><br>Kevin Reilly, Donald Danforth Plant Science Center                                                             |                                              |
| 9:00 – 9:30 am       | <b>Energy Grant Opportunities</b><br>Dan Kuipers, BioTherm                                                                                                                                  |                                              |
| 9:30 am- 10:00 am    | Travel to Bio Sci Greenhouse                                                                                                                                                                |                                              |
| 10:00 am- - 11:30 am | <b>Tour Bio Sci Greenhouse, Insectary<br/>&amp; AERGC Plant Swap</b>                                                                                                                        | NCERA Business Meeting<br>0040 Jennings Hall |
| 11:30 am-12:30 pm    | Lunch, Jennings Courtyard                                                                                                                                                                   |                                              |
| 12:30 pm – 1:30 pm   | AERGC Business Meeting, 001 Jennings Hall                                                                                                                                                   | Lunch, Jennings Courtyard                    |
| 1:30 pm -1:40 pm     | <b>AERGC Travel Grant Presentation:</b><br><b>NAIT Boreal Research Institute and Plant and Seed Solutions to Reclamation Challenges</b><br>Jean-Marie Sboze, NAIT Boreal Research Institute |                                              |
| 1:45 pm – 2:00 pm    | <b>AERGC Travel Grant Presentations: TBA</b><br>Steven Meyer, Lincoln Park & Garfield Park Conservatories, Chicago                                                                          |                                              |
| 2:00 pm – 2:30 pm    | <b>NASA Veggie Habitat</b><br>Gioia Massa, Kennedy Space Center                                                                                                                             |                                              |

|                   |                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2:30 pm – 2:45 pm | <b>AERGC Travel Grant Presentation: Managing the Mundane</b><br>Clinton Morse, University of Connecticut                                                                                                               |
| 2:45 pm – 3:00 pm | <b>AERGC Travel Grant Presentation:</b><br><b>The Indoor Feedstocks Plant Growth System at the Joint BioEnergy Institute (JBEI)</b><br>Mi Yeon Lee, JBEI                                                               |
| 3:00 pm – 3:30 pm | <b>Greenhouse Energy Audits:</b><br><b>Evaluating Sustainability Practices and Measures for Research and Education Greenhouse Facilities</b><br>Bruno Faucher, Envirosult and Alex Turkewitsch, Greenhouse Engineering |
| 3:30 pm – 3:45 pm | Final Comments/Adjourn, 001 Jennings Hall                                                                                                                                                                              |
| 3:45 pm – 4:00 pm | Plant Swap pick up, Bio Sci Greenhouse                                                                                                                                                                                 |