AETC 2019 Meeting Agenda

Sunday, February 10
2:00PM-6:00PM  
Registration Opens  
Location: Olmsted 4

Monday, February 11
7:00AM-5:00PM  
Registration Opens  
Location: Olmsted 4

7:00AM-8:30PM  
COMMITTEE MEETINGS  
Location: Olmsted 5&6, 7

8:00AM-11:00AM  
CONTINUING PROFESSIONAL DEVELOPMENT 1 & 2

CPD#1 –  An Introduction to ISOBUS for Engineers  
Location: Olmsted 1&2  
Instructor: Benjamin Jefferson, DISTek Integration, Inc.

ISOBUS is the standard for communication between agricultural equipment devices from different manufacturers. ISOBUS enables features like a common graphical user interface (GUI), data logging, and precision ag features such as section-control and variable-rate application. This session introduces the entire ISOBUS ecosystem at a high-level. Topics covered will include the ISO 11783 standard, the activities (both present and future) of the Agricultural Industry Electronics Foundation (AEF), and the state of commercial tools available for use in developing ISOBUS applications.

COST: $50.00

CPD#2 – TBD  
Location: Olmsted 3  
Instructor:  
More info to come.  
COST: $50.00

8:45AM-11:30AM  
TOUR  
Louisville Slugger Museum & Factory  
Ticket price for the tour includes a 13-minute film in the theater, all museum exhibit areas, a 30-minute guided tour through the factory, and a 16-inch souvenir bat at the end of the tour. If you are interested in purchasing a
custom made bat, order forms will be available. Bat production for this takes about 30 minutes. We'll walk over together from the Omni, about a 15 minute walk. A gathering location will be announced.

COST: $14 Adults; $13 Seniors

11:00AM-12:00PM Welcome Ceremony and Student Poster Presentations
Location: Olmsted 4
Please join us in the registration area for the official kick-off and welcome to the 2019 Agricultural Equipment Technology Conference. Refreshments will be served and we will have a brief welcome speech and introductions from our conference chair, Rusty Unterzuber.

12:00PM-1:30PM Luncheon with Keynote Speaker: “Drivers of the Global Food and Agricultural Value Chain” - Dr. Michael Gunderson, Professor and Director, Purdue University Center for Food and Agricultural Business
Location: Commonwealth Ballroom
Growing populations, wealthier and more urban populations, increased biofuel use, and the global flow of food will have substantial impact on the price we pay for food. These demand drivers also have the potential to put pressure on the supply side of food and increase the requirement of inputs. This increased input use could pressure some global ecosystems if productivity is increased. Come to this session to learn why Malthus was wrong, how we have delivered on Feed and Fuel, and what the future of the food and agricultural value chain must address to be sustainable in the future.

1:30PM-3:00PM TECHNICAL SESSIONS 1 & 2

TS#1 Supplier Showcase
Location: Olmsted 1&2
Moderator:

TS#2 Professional Development
Location: Olmsted 3
Moderator:

3:00PM-3:30PM Tech Networking/Break
Location: Olmsted 4

3:30PM-5:30PM TECHNICAL SESSIONS 3 & 4

TS#3 – Right to Repair
Location: Olmsted 1&2
Moderator:

TS#4 – Precision Ag/Telematics/Big Data
Location: Olmsted 3
Moderator:

5:30PM-7:00PM Distinguished Lecture
“Autonomous Technologies in Agriculture: A Review of the State of the Art” –
Tremendous interest, signified by large investments in the sector, has arisen in automation and robotics for agricultural production. Large areas of recent advance fit into four groups. (1) Sensors and control systems for optimizing machine operations and farm inputs. Developments in this area include optical and vision-based guidance, machine automation and process monitoring, and precision input application. (2) On-farm communications and connectivity. Developments in this area include machine-to-machine communications, telematics and in-field communications, and data infrastructure for sophisticated autonomy and decision support. (3) Agricultural machinery navigation systems. Developments in this area include tractor and harvester guidance, steering control, path planning, and automated machine operations. (4) Sensor-based nitrogen-management technologies. Developments in this area include sophisticated sensors and automated platforms, and analytical techniques for deriving actionable information from big data. All four groups are discussed in terms of commercially available technologies, public intellectual property, and the research literature.

**Tuesday, February 12**

**7:00AM-5:00PM**
Registration Opens  
Location: Olmsted 4

**7:00AM-6:00PM**
COMMITTEE MEETINGS  
Location: Olmsted 5&6, 7

**8:00AM-10:00AM**
TECHNICAL SESSION 5  
TS#5 – The Evolving World of Standards and Regulations  
Location: Olmsted 1&2  
Moderator: Scott Cedarquist, ASABE

This session will overview key standards development activities and regulations pertaining to agricultural equipment. A selection of timely topics will be included which cover priority North American and international activities.

**10:00AM-10:30AM**
Tech Networking/Break  
Location: Olmsted 4

**10:30AM-12:30PM**
TECHNICAL SESSIONS 6, 7  
TS#6 – Autonomy vs Automation  
Location: Olmsted 1&2  
Moderator:

TS#7 – Commercial Scale Bio-Fuel  
Location: Olmsted 3  
Moderator:

**12:30PM-2:00PM**
LUNCHEON – AE50 Recognition  
Location: Commonwealth Ballroom
AE50 Showcase I
Location: Olmsted 1&2
Moderator:
Each year the AE50 recognition awards honor companies offering the best engineered products for agricultural, food, biological and related systems. These companies continue to push the envelope of new equipment design through innovation. The AE50 products featured in this session were new to the marketplace in 2018, and all have the potential for a broad impact in their area of industry. This is an excellent opportunity to learn of new features incorporated into these products and share a portion of their journey to the marketplace. The session is open to all and will feature presentations on a sampling of those products receiving 2019 AE50 awards.

Tech Networking/Break
Location: Olmsted 4

AE50 Showcase II
Location: Olmsted 1&2
Moderator:

AETC Planning Committee
Location:
2019 AETC Planning Committee
Rusty Unterzuber, Chair
Scott Frost, Vice Chair
Andy Theisen, Past Chair
  Ganesh Bora
  Scott Cedarquist
  Mark Dilts
  Mahmood Ebadian
  Scott Frost
  Roger Hoy
  Brian Huenink
  Karl Klotzbach
  Cody Kneifl
  Andy Lenkaitis
  Brian Luck
  Justin Noland
  Douglas Otto
  Austin Roepke
  Michael Sama
  Amelie Sirois-Leclerc
  Kent Thoreson
  Shane Williams
  Jessica Bell

THANK YOU!