Monday, February 8

7:00AM  Registration  
LOCATION: Medallion C/D

8:00AM-10:30AM  CONTINUING EDUCATION PROFESSIONAL DEVELOPMENT SESSIONS

8:00AM  CPD #1 – PC Based Data Acquisition  
Instructor: Michael Sama  
COST: $50.00  
LOCATION: Medallion A  
Participants will learn the basics of PC-based data acquisition for acquiring and recording mixed-signal data. Topics will include analog-to-digital and digital-to-analog conversion, digital inputs and outputs, counting and frequency inputs, data acquisition hardware, and programming using Visual Studio .NET. Hands on exercises will be interspersed between topics. Experience with basic circuit analysis and programming will be helpful, but is not required. Size is limited to 10 participants.

8:00AM  CPD #2 – Managing Your Data: Tools for Efficient Data Storage and Analysis  
Instructor: Luke Zwilling  
COST: $50.00  
LOCATION: Medallion B  
Introduce professionals to tools useful in increasing efficiency and managing daily data related activities. This course will assist in developing participants’ skills in applying better data presentation practices. Topics will include: efficient data storage, basic coding for data analysis, working with Geospatial data and other topics. The course will be hands-on, so please bring your laptop.

9:00AM-11:15AM  TOUR- Louisville Slugger Museum & Factory  
COST: Students- $11, Others- $13  
LOCATION: Meet at AETC registration  
The Louisville Slugger Museum & Factory is a fun, exciting and educational opportunity for attendees. See the world’s tallest bat and learn about the bat making process from forest to factory. Witness important scientific principles at work. Discover the world’s oldest baseball glove. Face down a 90mph fastball and much more. $11 for students and $13 for others.
11:00AM-12:00PM SUPPLIERS AND CONSULTANTS DISPLAY/ELECTRONIC POSTER CONTEST
LOCATION: Medallion C/D

12:00PM-1:30PM LUNCHEON w/ KEYNOTE ADDRESS
“A 20 Year View on the Industry”
John Phipps
LOCATION: Grand Ballroom- 10th Floor

1:30PM CONCURRENT TECHNICAL SESSIONS 1, 2
1:30PM-3:30PM TS#1 - Lightweight Casting Design
LOCATION: Medallion A
Moderator: Andy Theisen
As agricultural vehicles have grown in overall size, concerns over the weight of these vehicles has also grown. With increasing legislative pressures to restrict transport weights and the continued need to reduce ground compaction in the field, weight reduction has become a key design feature. Cost concerns continue to make alternative materials prohibitive. This session will focus on material selection of ductile iron as way to reduce complexity and weight in your designs without component cost increases. The speakers will highlight the high strength to weight ratio of ductile iron and how post processing can enhance the material properties to further improve strength, wear, and toughness while reducing the weight of the components.

1:30PM Introduction
1:35PM Ductile Iron Castings for Weight Reduction
John Lewensky, Business Development Manager, Farrar Corporation
1:55PM Enhancing Strength with Austempered Ductile Iron
TBA, Applied Process
2:15PM Laser Surface Enhancement for Ductile Iron
Andy Theisen, Kondex
2:35PM Casting Design Consideration and Tools
Vadim Pikovich, Magmasoft

1:30PM-3:30PM TS#2 - Ash Reduction in Biomass Feedstock for Biofuel
LOCATION: Medallion B
Moderator: Sam Tagore, BioEnergy Technology Office (BETO), US Dept of Energy
The high levels of ash in feedstock interfere with the effectiveness of converting biomass to biofuels. The source of ash can be from the dirt picked up during harvest in addition to the natural ash in the material. Field research shows that the total ash content of the collected biomass often surpasses the maximum allowable for biochemical or thermochemical conversions. Strategies are developed to reduce the levels of ash content in biomass during harvest. These strategies include increasing the height of the cut, working on firm and even ground, and devising sieving and shaving mechanism within the equipment. Remedial methods like water, acid, or alkali wash systems have also been practiced or suggested prior to introducing the biomass into chemical and physical conversions. This session reviews the latest development in technologies to reduce ash in biomass feedstock.

1:30PM Introduction
1:35PM On-the-go Measuring Ash and Other Chemicals during Harvest
Bill Smith, Idaho National Laboratory
1:55PM
Conventional and Single Pass Stover Harvest in Relation to Ash Reduction
Matt Darr, Iowa State University
2:15PM
The Role of Fuel Ash in Energy Conversion and Handling of Spent Ash as Fertilizer
Danny Gray, Charah, Inc.
2:35PM
Cost Benefit Analysis of Ash Reduction Using Dry and Wet Techniques
Shahab Sokhansanj, Oak Ridge National Laboratory

3:30PM
CONCURRENT TECHNICAL SESSIONS 3, 4
3:30PM-5:30PM
TS#3 - Advancements in Forage & Biomass Technologies
LOCATION: Medallion A
Moderator: Kent Thoreson
3:30PM
Introduction
3:35PM
Precision Agriculture in Forage Harvesters
Doug Otto, CNH Industrial
3:55PM
Tracking & Tracing Forage Product
Chris Horton, Manager of Product Planning, Digi-Star
4:15PM
iBand-it iPad app
Lacy Brown, GFC
4:35PM
Measuring and tracking feed quality (RFV or TDN) on a large square baler as it produces alfalfa
Jeff Roberts, HarvestTec

3:30PM-5:30PM
TS#4 - Supplier Technology
LOCATION: Medallion B
Moderator: Scott Frost

5:30PM-6:30PM
PANEL DISCUSSION
The Industry Panel – A 20 Year Look
LOCATION: Medallion A
Moderator: Chad Yagow
In order to mark the 20th Anniversary of the Agricultural Equipment Technology Conference, a panel of leaders from ASABE and the agricultural industry will share their views on agriculture, spanning the past and coming 20 years. Panel participants bring experience from government, industry, OEM manufacturing, component manufacturing, row crop agriculture, animal agriculture and many other areas. This session will be an interactive opportunity for the audience to pose questions to the panel and to generate thought provoking discussion on where we’ve been and where we might be going. Please join us for this engaging and celebratory session.
Speakers:
• Maury Salz, Claas America
• Brad Rein, USDA National Institute of Food and Agriculture
• Neal Stoffel, Kondex Corporation
• Charlie O’Brien, AEM
• John Phipps, Farm Journal Media (ret.)
• Larry Hoover, CNH Industrial

7:00PM-9:00PM  STUDENT/INDUSTRY MIXER
Dinner and Bowling Social
LOCATION: Sport and Social Club, Fourth Street Live

Tuesday, February 9
7:00AM  Registration
LOCATION: Medallion C/D

7:30AM  CONCURRENT TECHNICAL SESSIONS 5, 6
7:30AM-10:00AM  TS#5 - Standards Session
LOCATION: Medallion A
Moderator: Scott Cedarquist

7:30AM  Introduction
7:35AM  US Regulatory Issues Associated with Agricultural Equipment
Nick Tindall, Association of Equipment Manufacturers (AEM)

7:55AM  Canadian Agricultural Equipment Standardization
Priya Malik, Canadian Standards Association (CSA)

8:15AM  Canadian Standards Development, a Grower’s Perspective
Dan Mazier, Keystone Agricultural Producers of Manitoba

8:35AM  Ties between the Agricultural Electronics Foundation and ISO Standards Development
Jaap van Bergeijk, AGCO

8:55AM  Future Improvements to ASAE S365.9, Braking System Test Procedures and Braking Performance for Agricultural Field Equipment
Ron Stoltenberg, AGCO & Chair, Agricultural Equipment Braking

9:15AM  The Ever Expanding Portfolio of ISO 4254 Safety Standards
Chris Schneider, John Deere

9:35AM  An Update on Sustainability Standards
Scott Cedarquist

8:00AM-10:00AM  TS#6 – Electrification: The New Frontier in Agriculture Machinery
LOCATION: Medallion B
Moderator: Joe Dvorak

8:00AM  Introduction
8:05AM  The Benefits of Electrification: Application on a Gyrorake
Nicholas Gauer, Kuhn

8:25AM  Electric Machines for Off-Road Mobile Equipment
Jim Shoemaker, John Deere

8:45AM  Examining Practical Ways to Maximize Power Density in Electric Machines for Traction and Power Generation in Hybrid Electric Vehicles
Jay W Schultz, Steve Huard, Parker Hannifin
9:05AM The History of Electrification in Other Industries and the Implications for Agricultural Machinery
Mark Woods, Zapi, Inc.

10:00AM CONCURRENT TECHNICAL SESSIONS 7, 8
10:00AM-12:00PM TS#7 - Cover Crops and Their Role in Nutrient Management
LOCATION: Medallion A
Moderator: Kent Thoreson
Introduction
Effect of winter cover cropping practices on nutrient cycling and maize yield
Jude Holscher, Agrible
Hagie Manufacturing Cover Crop Interseeder
Rachel Halbach & Newt Lingenfelter, Hagie Manufacturing
TBA
Kent Cavender-Bares, ROWBOT
Integrating Manure and Cover Crops with Low-Disturbance Tillage
Tim Harrigan, Michigan State University

10:00AM-12:00PM TS#8 - Supplier Showcase
LOCATION: Medallion B
Moderator: Neal Stoffel, Kondex
AETC 2016 will again feature some of the world's finest agricultural equipment component/systems manufacturers and distributors. These companies will be presenting the newest innovations and most up-to-date information on a variety of agricultural machinery systems of interest to attendees. The supplier companies presenting will also have tabletop displays of their products, literature, and contact information. Don't miss out on this opportunity to learn about the latest developments, from the world's best agriculture OEM suppliers.
Introduction
QuadraTouch Pro™ featuring SMART Loop™
Matt Koch, Sukup Manufacturing Co.
Poultry Lighting – Helping Them See the Light
Scott Holland and Jennifer Stout, I-Lighting LLC
Graham Pro Electric Planter Drive
Jerry Graham, Partner – Graham Equipment
PowerFold® Folding System for Front 3-Point Hitches
Mr. Hubert Defrancq, President – LAFORGE Systems, Inc.

12:00PM-1:30PM AE50 AWARDS LUNCHEON
LOCATION: Grand Ballroom – 10th Floor

1:30PM-3:30PM AE50 Showcase I
LOCATION: Medallion A/B
Moderator: Brian Huenink, John Deere
Introduction
Sunflower 9830 NT Series Single Disc Air Drill
Kevin Bien, AGCO Corporation
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:00PM</td>
<td>SF 6830 Rotary Finisher</td>
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<td>Kevin Bien, AGCO Corporation</td>
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<td>2:25PM</td>
<td>PremiumSort Cleaning System</td>
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<td>Mike Vande Voort, Oxo International Corp</td>
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<td>2:50PM</td>
<td>FC 3160 TLR Side-Pull Disc Mower Conditioner</td>
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<td>Christophe Jeanroy, Kuhn North America Inc.</td>
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<td>3:10PM</td>
<td>SW 4014 Square Bale Wrapper</td>
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<td>Christophe Jeanroy, Kuhn North America Inc.</td>
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<td>3:30PM</td>
<td>Break / YPC “ALL IN GOOD FUN” CONTEST</td>
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<td>4:00PM</td>
<td>AE50 Showcase II</td>
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<td>LOCATION: Medallion A/B</td>
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<td>Moderator: Brian Huenink, John Deere</td>
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<td>4:00PM</td>
<td>Introduction</td>
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<td>4:05PM</td>
<td>6R Series Tractor for 2016 (110-155hp)</td>
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<td>Justin Dahlager, John Deere</td>
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<td>4:30PM</td>
<td>Fendt 500 Vario Tractor</td>
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<td>Josh Keeney/Kevin Jones, AGCO Corporation</td>
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<td>4:55PM</td>
<td>T7.315 and T7.290 Heavy Duty Tractors</td>
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<td>TBA, New Holland</td>
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<td>Spreader-Sprayer</td>
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<td>5:45PM</td>
<td>Flexi-Coil® P Series Air Carts</td>
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