Welcome to the 2016 ASABE Annual International Meeting (AIM) in Orlando, Florida!

Disney’s Coronado Springs Resort is an excellent venue for combining business and pleasure and I hope you are able to do some of both while you are here.

Also, I want to thank the Florida Section for serving as hosts for this year’s AIM. They had an active hand in planning sessions, tours and other meeting events all designed to make your AIM experience a memorable one.

I look forward to visiting with you and hope your time at the Orlando AIM is productive and enjoyable.
Mary Leigh Wolfe
ASABE President 2015-2016

REGISTRATION
Our registration desk is happy to answer any questions you may have during the meeting. The ASABE Registration desk is located at the central registration counter in the convention center area.

Registration hours:
- Saturday, July 16: 3:00PM-6:00PM
- Sunday, July 17: 7:00AM-6:00PM
- Monday, July 18: 6:00AM-6:00PM
- Tuesday, July 19: 6:00AM-6:00PM
- Wednesday, July 20: 6:00AM-4:00PM

Your full meeting registration includes Welcome Reception, Opening General Session, Technical Sessions, Coffee Breaks, ASABE Business Meeting, Awards Luncheon and any other published receptions or nonticketed activities.

ASABE GIVES BACK
Support Victims of the Pulse Shooting

The Orlando community experienced a horrendous act of violence on June 12, 2016, when a gunman attacked innocent individuals at Pulse Nightclub killing 49 people and injuring countless more.

In lieu of table decorations, the ASABE Annual International Meeting will make a donation to the National Center for Victims of Crime Compassion Fund to support the victims of the Pulse Shooting.

100% of the donations received through this fund will help support the immediate and long-term complex emotional and physical needs of these victims and their families who were forever changed on June 12th.

Additional donations to support the victims of violent crimes can be made at: www.nationalcompassionfund.org

LOCATION
Disney’s Coronado Springs Resort Convention Center
1000 West Buena Vista Drive
Lake Buena Vista, Florida 32830-8403
407-939-1000

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SPouse/Guest Lounge
Location: Monterey 1

HOURS:
Monday: 8:00AM-5:00PM
Tuesday: 8:00AM-5:00PM
Wednesday: 8:00AM-12:30PM

With the full meeting registration, a Spouse/Guest will receive a name badge and may enjoy the comfort and convenience of the Spouse/Guest Lounge as well as an included admittance to the Spouse/Guest Brunch at The Boathouse in the newly renovated Disney Springs and the Wednesday Awards Luncheon.

Kids Camp/Child Care Lounge
Location: Monterey 2

HOURS:
Monday: 7:00AM-5:00PM
Tuesday: 7:00AM-5:00PM
Wednesday: 7:00AM-12:00PM

The Young Professionals Community is sponsoring a childcare lounge in the Monterey 2 and Monterey 3 rooms. This will give parents, both members and/or their spouses, a central and convenient place to watch their children during each day’s events. A variety of crafts, toys, games and entertainment will be provided.

Rules/guidelines for the use of the room are published. This room is meant more for convenience than a professional service.

By using this service, parents cannot and will not hold the American Society of Agricultural and Biological Engineers, the Young Professional Community or the Coronado Springs Resort Convention Center liable for any personal injury, sickness, harm, loss of personal property or damage to personal property.

A completed liability release form is requested prior to use of the room, or when you register.

Nursing Room
Location: Monterey 3

A quiet and private space has been secured for nursing mothers. Comfortable seating and power will be supplied.

Exhibits
Location: Veracruz B

Please take time to visit our exhibitors located in the Exhibit Hall located in Veracruz B.

HOURS:
Sunday: 3:00PM-6:00PM
Monday: 7:00AM-6:00PM
Tuesday: 7:00AM-6:00PM
Wednesday: 7:00AM-4:00PM

Name Badges

Please wear your name badge at all times when you are attending functions within the conference hotel. This badge informs us that you are a registered conference attendee and it will allow you access into meetings, the exhibit hall and meal functions.

Electronic Devices

As a courtesy to your colleagues, please turn off or silence all electronic devices during sessions, workshops and plenary addresses.

Photographs/Video Taping

Photographs and video taping or recording of presentations without advance approval from ASABE or the presenters is strictly prohibited.

Cyber Cafe

Location: Veracruz B

A bank of computers is available in the Exhibit Hall for you to view your emails. Please limit your time on the computers to be courteous to others.

Visiting Orlando

Do not wear your name badge outside of the conference hotel. When possible, travel in groups when visiting the downtown area.

Disney provides a complimentary shuttle to Disney Springs as well as to Disney Theme Parks.

Parking at the Coronado Springs

Complimentary parking is available at the Coronado Springs Resort.
EVENT SUMMARY

The following is a listing of events by interest area. Descriptions and locations are later in the program.

STUDENTS/PREPROFESSIONALS
International Preprofessional Community (IPC) Mixer
Saturday, July 16 – 8:00PM-9:00PM
YPC Fun Run/Walk
Sunday, July 17 – 7:30AM-9:00AM
Fountain Wars Presentation Judging
Sunday, July 17 – 1:00PM-4:30PM
International Preprofessional Community (IPC)
Business Meeting - Professional Development Session
Sunday, July 17 – 1:00PM-2:00PM
AIM Meeting Orientation (for students / first timers)
Sunday, July 17 – 2:00PM-3:00PM
Undergraduate Poster Session
Sunday, July 17 – 3:00PM-4:30PM
Alpha Epsilon Annual Meeting
Sunday, July 17 – 4:00PM-5:00PM
Women in ASABE Speed Networking
Sunday, July 17 – 6:30PM-7:30PM
Foundation Portrait Studio
Monday, July 18 and Tuesday, July 19
Career Fair
Monday, July 18 – 9:30AM-12:00PM
ASABE Robotics Student Design Competition
Monday, July 18 – 10:00AM-12:30PM
Boyd-Scott Graduate Research Award
Monday, July 18 – 12:00PM-2:30PM
ASABE Robotics Student Design Competition: Round 1 and Round 2
Monday, July 18 – 1:00PM-5:00PM
Fountain Wars Competition - Build
Monday, July 18 – 1:00PM-5:00PM
Women in ASABE Social
Monday, July 18 – 4:30PM-5:30PM
Fountain Wars Competition
Monday, July 18 – 5:00PM-8:00PM
Graduate Student Social
Monday, July 18 – 8:00PM-10:00PM
Ethics Essay Competition
Tuesday, July 19 – 8:00AM-9:00AM
ASABE Robotics Student Design Competition: Round 3
Tuesday, July 19 – 8:00AM-12:00PM
K.K. Barnes Student Paper Competition
Tuesday, July 19 – 9:00AM-10:00AM
Gunlogson Environmental Design Competition
Tuesday, July 19 – 10:00AM-11:00AM
AGCO National Student Design Competition
Tuesday, July 19 – 11:00AM-12:00PM
1/4 Scale Tractor Student Design Competition
Tuesday, July 19 – 12:30PM-2:30PM
Meet and Greet with Chairs and (Senior) Faculty
Wednesday, July 20 – 7:00AM-8:00AM
AEM / ASABE Student Awards Breakfast
Wednesday, July 20 – 7:30AM-9:00AM
Ethics in Engineering – Video Competition
Wednesday, July 20 – 7:30AM-10:00AM
International Preprofessional Community (IPC)
Business Meeting – Part 2
Wednesday, July 20 – 10:00AM-11:00AM
Fundamentals of Engineering (FE) Information Session
Wednesday, July 20 – 11:00AM-12:00PM

GRADUATE STUDENT ACTIVITIES
YPC Pin Spin
Saturday, July 16 – 7:00PM-9:00PM
YPC Fun Run/Walk
Sunday, July 16- 7:30AM-9:00AM
Marketing Yourself in Academia
Sunday, July 17 – 12:00PM-2:00PM
Data Management
Sunday, July 17 – 12:00PM-2:00PM
AIM Meeting Orientation (for students / first timers)
Sunday, July 17 – 2:00PM-3:00PM
Alpha Epsilon Annual Meeting
Sunday, July 17 – 4:00PM-5:00PM
Women in ASABE Social
Monday, July 18 – 4:30PM-5:30PM
Guide to Professional Licensure
Monday, July 27 – 7:00AM-8:00AM
Career Fair
Monday, July 18 – 9:30AM-12:00PM
Order of the Engineer Induction Ceremony
Monday, July 18 – 4:00PM-5:00PM
Women in ASABE Social
Monday, July 18 – 4:30PM-5:30PM
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<thead>
<tr>
<th>Event</th>
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<tbody>
<tr>
<td>Graduate Student Social</td>
<td>Monday, July 18 – 8:00PM-10:00PM</td>
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<tr>
<td>Graduate Student Professional Development Roundtable</td>
<td>Tuesday, July 19 – 12:00PM-2:00PM</td>
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<td>Graduate School 101: A Panel Discussion for Undergraduates</td>
<td>Tuesday, July 19 – 2:00PM-4:00PM</td>
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<tr>
<td>Graduate Student Business Meeting</td>
<td>Tuesday, July 19 – 4:00PM-5:30PM</td>
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<tr>
<td>Meet and Greet Breakfast with Department Chairs and Senior Faculty</td>
<td>Wednesday, July 20 – 7:00AM-8:00AM</td>
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<tr>
<td>Ethics in Engineering – Video Competition</td>
<td>Wednesday, July 20 – 7:30AM-10:00AM</td>
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<tr>
<td>Fundamentals of Engineering (FE) Information Session</td>
<td>Wednesday, July 20 – 11:00AM-12:00PM</td>
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**INTERNATIONAL COMMUNITY**

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<th>Event</th>
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<tr>
<td>International Preprofessional Community (IPC) Mixer</td>
<td>Saturday, July 16 – 8:00PM-9:00PM</td>
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<tr>
<td>Women in ASABE Speed Networking</td>
<td>Sunday, July 17 – 6:30PM-7:30PM</td>
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<tr>
<td>Alumni Reception of College of Biosystems Engineering and Food Science, Zhejiang University</td>
<td>Sunday, July 17 – 6:30PM-10:00PM</td>
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<tr>
<td>Guide to Professional Licensure</td>
<td>Monday, July 18 – 7:00AM-8:00AM</td>
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<tr>
<td>Association of Agricultural Food and Biological Engineers of Indian Origin (AABFEIO) Meeting</td>
<td>Monday, July 18 – 5:30PM-9:30PM</td>
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**INTERNATIONAL BREAKFAST**

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<tr>
<th>Event</th>
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<tr>
<td>AOCABFE &amp; NERCITA China Exchange Forum</td>
<td>Tuesday, July 19 – 2:30PM-5:00PM</td>
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<td>Association of Overseas Chinese Agricultural, Biological, and Food Engineers (AOCABFE) Annual Business Meeting and Award Banquet</td>
<td>Tuesday, July 19 – 5:15PM-10:00PM</td>
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<tr>
<td>Association of Korean Agricultural, Biological, and Food Engineers (AKABFE) Meeting</td>
<td>Tuesday, July 19 – 5:30PM-7:00PM</td>
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<tr>
<td>ASABE Foundation Networking Event – Fogo de Chao</td>
<td>Tuesday, July 28 – 6:00PM-10:00PM</td>
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**TECHNICAL AND CULTURAL TOURS**

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<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>I-Drive 360</td>
<td>Sunday, July 17 – 12:00PM-3:00PM</td>
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<tr>
<td>Everglades Restoration Project</td>
<td>Monday, July 18 – 5:30AM-7:30PM</td>
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<tr>
<td>Lakeridge Winery Private Tour &amp; Wine Tasting</td>
<td>Monday, July 18 – 1:00PM-6:00PM</td>
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<tr>
<td>Behind the Seeds</td>
<td>Monday, July 18 – 3:30PM-5:30PM</td>
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<tr>
<td>Orlando Wetlands Park and Conserv II Field Tour</td>
<td>Tuesday, July 19 – 10:00AM-4:00PM</td>
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<tr>
<td>Orlando Outlets</td>
<td>Tuesday, July 19 – 11:00AM-3:00PM</td>
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<tr>
<td>Foundation Networking Event – Fogo de Chao</td>
<td>Tuesday, July 19 – 6:00PM-10:00PM</td>
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<tr>
<td>Behind the Seeds</td>
<td>Wednesday, July 20 – 3:30PM-5:30PM</td>
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Kennedy Space Center
Thursday, July 21 – 9:00AM-4:00PM
Biogas Recovery System Generating Electricity from Cow Manure
Thursday, July 21 – 8:00AM-6:00PM

CONTINUING EDUCATION/WORK-SHOPS
Hyperspectral Imaging and Data Analysis
Sunday, July 17 – 8:00AM-5:00PM
Designing Agricultural Applications for Hand Held Mobile Devices
Sunday, July 17 – 9:00AM-12:00PM
Training on ROS-Robot Operating System
Sunday, July 17 – 9:00AM-12:00PM
Academic Leadership - A Systems Approach
Sunday, July 17 – 9:00AM-12:00PM
Dielectric Sensing Applications in Food and Agriculture
Sunday, July 17 – 9:00AM-12:00PM
Online Teaching and Active Learning: Flipping the Classroom
Sunday, July 17 – 9:00AM-12:00PM
Data Management
Sunday, July 17 – 12:00PM-2:00PM
Marketing Yourself in Academia
Sunday, July 17 – 12:00PM-2:00PM

SOCIAL/HOSTED RECEPTIONS
International Preprofessional Community (IPC) Mixer
Saturday, July 16 – 8:00PM-9:00PM
ASABE Welcome Reception
Sunday, July 17 – 4:30PM-6:00PM
Alumni Reception of College of Biosystems Engineering and Food Science, Zhejiang University
Sunday, July 17 – 6:30PM-10:00PM
Women in ASABE Social
Monday, July 18 – 4:30PM-5:30PM
Fellows Induction Ceremony / Reception
Monday, July 18 – 6:00PM-8:00PM

ASABE Fellows Induction Ceremony & Reception
Monday, July 18
6:00PM
Coronado K/L
As head of the Department of Biological Systems Engineering at Virginia Tech, Wolfe is responsible for overseeing all administrative aspects (budget, personnel, and facilities) of the department and facilitating the success of individual departmental members as well as the department overall. As a faculty member, she is currently responsible for teaching one course each year and for conducting research in watershed science and engineering.

Specifically, her research and teaching of undergraduate and graduate courses has focused on hydrologic modeling, nonpoint-source (NPS) pollution control strategies, and decision support tools for watershed management. She has served as an advisor or an advisory committee member for 30 PhD students and 46 MS students.

Maynard Herron, P.E.
ASABE President-Elect
Engineering Manager
AGCO

In his professional role, Herron has served 12 years as engineering manager responsible for new product engineering for AGCO hay tools. In this role, he has overseen the development and launch of several forage and hay harvesting products. His current role is manager of product proving, AGCO Hesston division. He recently served as principal investigator for a biomass harvest and logistics demonstration grant from the U.S. Department of Energy (DE-EE0001035). Herron is individual or joint inventor on fourteen U.S. patents.

A member of ASABE for 37 years, Herron is currently a member of MS-23/7/2 (Forage and Biomass Engineering) and MS-23/5 (Tractor Implement Interface). His other Society activities include the AETC planning committee, the ASABE marketing task force, and an employer outreach task force to develop career promotion materials to improve employer comprehension of the agricultural and biological engineering degree and curriculum. This task force also developed a résumé writing guide to aid agricultural and biological engineers in emphasizing the diversity and strengths of the degree, including tips to enhance recognition by electronic résumé scanning programs.
SATURDAY, JULY 16

Event #1

**YPC Pin Spin**
Saturday, July 16 – 7:00PM-9:00PM

**Location:** Disney Springs – Meet at Disney shuttle stop at 6:00PM

What better way to kick off AIM than with the Young Professional Community’s Social? Come join us for camaraderie and to show off your bowling skills Saturday evening! Prizes awarded for winning bowler and team as well as most team spirit. The social begins at 7:00PM at Splitsville Lanes at Disney Springs or you can meet us at 6:00PM at the Disney shuttle stop at Coronado Springs.

**COST:** $50.00

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Event #2

**INTERNATIONAL PREPROFESSIONAL COMMUNITY (IPC) Mixer**
Saturday, July 16 – 8:00PM-9:00PM

**Location:** Fiesta 7/8

All pre-professionals are invited to attend our social. This is a good time to network with other attendees and to make further plans for dinner after the reception. Refreshments will be served. Registration is required but there is no charge for this event.

**COST:** Preregistration is required

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SUNDAY, JULY 17

Event #3

**YPC Fun Run/Walk**
Sunday, July 17 – 7:30AM-9:00AM

**Location:** Meet near the ASABE Registration Desk

The Young Professional Community is sponsoring its eleventh annual YPC Fun Run/Walk. Come join us for a 5k run or a 1 mile walk around the Lago Dorado! All proceeds will go towards supporting future YPC events focused on young member retention during the transition from student to professional. Please come out and show your support for the young members of ASABE while staying active.

**COST:** $20.00

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Event #4

**GALE HOLLOWAY MEMORIAL GOLF OUTING TO SUPPORT THE ASABE FOUNDATION**
Sunday, July 17 – 7:30AM-12:00PM

**Location:** Meet near ASABE registration

Join us for a game of golf with your friends at the Falcon’s Fire Golf Club in Kissimmee which is a short distance from our convention center. All proceeds benefit the ASABE Foundation.

**COST:** $110.00

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**ASABE FOUNDATION SILENT AUCTION**
Sunday, July 17 through Tuesday, July 19

**Location:** Veracruz B

The Silent Auction provides random meetings of wine and beer connoisseurs, old and new college alumni, art and craft lovers, model tractor collectors, travel packages, potatoes, nuts, and local packages. Many great conversations have taken place at the auction tables. Beginning at the Welcome Reception, bid on items or take advantage of the “buy-it-now” option. Get your ticket for Pick-a-Prize: one awarded each day and two on the final day.

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Event #5

**PROFESSIONAL ENGINEERING EXAM QUESTION WRITING SESSION**
Sunday, July 17 – 8:00AM-5:00PM

**Location:** Fiesta 7

Licensed Professional Engineers are welcome to participate in a day-long effort to write and evaluate agricultural and biological engineering Professional Examination test questions. This session is sponsored by the EOPD-414 committee. Persons attending must be licensed professional engineers and provide their PE number(s) to participate. Preregistration is required.

**COST:** Preregistration and PE license is required
**CPD #1**  
**HYPERSONSPECTRAL IMAGING AND DATA ANALYSIS**  
Sunday, July 17 – 8:00AM-5:00PM  
**Location:** Fiesta 9  
**Instructor(s):** Kurt Lawrence, Bosoon Park, Seung-Chul Yoon, USDA-ARS, Athens, GA  
**Sponsored by ITSC-348**  
**LEVEL OF DIFFICULTY:** Entry/Intermediate Level  
**TARGET AUDIENCE:** Engineers, scientists, and graduate students who are interested in hyperspectral imaging and data analysis for applied research. The course is designed for researchers from beginning to intermediate knowledge of hyperspectral data analysis.  
**LEARNING OBJECTIVES:** The course will be divided into three parts. The first part will cover a brief overview of hyperspectral and multispectral imaging including improved data capture, calibration, lighting, and visualization. The second part will cover intermediate topics of hyperspectral data exploration and multivariate image analysis. Emphasis will be placed on assessment of the hyperspectral data, exporting data to common chemometrics software for model development, model prediction, and validation with hyperspectral image data. Finally, the third part will explore a couple of case studies for real-world problem solving with hyperspectral imaging technology.  
**BENEFITS:** Many multispectral and most hyperspectral imaging systems are still sold “as is”. That is, the hardware of the system is usually assembled and packaged with only some form of data acquisition software and limited data analysis. This course is intended to introduce multi- and hyperspectral image analysis to the audience and help them understand the basics of quality data collection, exporting data to popular chemometric packages, and finally evaluation/validation of models back on the hyperspectral image.  
**COST:** $135.00

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**CPD #2**  
**DESIGNING AGRICULTURAL APPLICATIONS FOR HAND HELD MOBILE DEVICES**  
Sunday, July 17 – 9:00AM-12:00PM  
**Location:** Fiesta 1  
**Instructor:** Joseph Dvorak  
**Sponsored by ITSC-254**  
**LEVEL OF DIFFICULTY:** Entry Level  
**TARGET AUDIENCE:** Engineers and researchers interested in starting to develop App for handheld mobile devices.  
**LEARNING OBJECTIVES:** (a) Understand the basic App development process (b) Become familiar with the tools required for App development (c) Develop a single app.  
**COST:** $50.00

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**CPD #3**  
**TRAINING ON ROS-ROBOT OPERATING SYSTEM**  
Sunday, July 17 – 9:00AM-12:00PM  
**Location:** Fiesta 2  
**Instructor:** Stephene Nuske, The Robotics Institute, Carnegie Mellon University  
**Sponsored by ITSC-318, MS-48**  
**LEVEL OF DIFFICULTY:** Entry Level  
**TARGET AUDIENCE:** Professors, Graduate Students, Undergraduate Students, Researchers and Engineers Working in Agricultural Automation, Robotics and Mechanization Areas. ROS (Robot Operating System) has rapidly become a default for robotics engineers and scientists in the past decade, this course will introduce ROS and help guide people with its use for agricultural engineering applications. For a wide variety of reasons ROS is a great choice as a tool for collecting data, processing data, interfacing with actuators, through to communicating with other machines/robots. Even with a basic understanding of the ROS framework gives a user a wide variety of useful capabilities. More advanced understanding gives the ability to custom tailor ROS into your work to leverage all that ROS has to offer.  
**COST:** $100.00

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**CPD #4**  
**ACADEMIC LEADERSHIP – A SYSTEMS APPROACH**  
Sunday, July 17 – 9:00AM-12:00PM  
**Location:** Fiesta 3  
**Instructor(s):** KC Ting, Ajit Srivastava, Richard Straub, Lalit Verma, Steven Taylor  
**Sponsored by EOPD**  
This workshop will address typical academic environments in the United States, necessary elements for leadership development, generally appreciated traits of a leader, exciting and effective leadership, solving complex problems using systems methodologies, and integrating systems methodologies and leadership. The format of this 3 hour workshop will include a 90 minute presentation, a 15 minute questions and answers, a 15 minute break, and a 60 minute panel discussion (20 minutes of remarks by panelists and 40 minutes of open discussion). The topics of panel discussion may include measurement of leadership success, leadership skill improvement, most pressing challenges and rewarding experiences as a leader, interpersonal skills, peer-coaching processes, work/life balance, and new demands on academic leaders, leadership succession plan, and other topics raised by the participants.  
**COST:** $50.00
CPD #5
**Dielectric Sensing Applications in Food and Agriculture**
Sunday, July 17 – 9:00AM-12:00PM
*Location: Fiesta 4*
Instructor(s): Samir Trabelsi, Micah Lewis
Sponsored by ITSC-348

**LEVEL OF DIFFICULTY:** Entry Level

**LEARNING OBJECTIVES:** The workshop will cover the basics of radio-frequency dielectric properties and measurement techniques and their applications in food and agriculture. The attendees will learn how to select the most suitable measurement technique for a given application and how to identify correlations between measured dielectric properties and target physical properties. Examples of nondestructive sensing of bulk density and moisture content in grain, seed, and nuts from measurements of their dielectric properties at microwave frequencies will be given in static and dynamic situations. Also, use of microwave sensing technology for real-time monitoring of a given process will be presented for in-wagon or in-trailer peanut drying.

**BENEFITS:** The attendees will acquire a better understanding of the interaction between electromagnetic waves and water-containing materials and will gain expertise in measurement of the dielectric properties of food and agricultural products over a broad radio-frequency range. Also, the attendees will be familiarized with the automation of measurements and the integration of several sensors to monitor simultaneously a number of variables. The knowledge gained will be critical in the experimental design of microwave heating and sensing applications.

**COST:** $75.00

CPD #8
**Online Teaching and Active Learning: Flipping the Classroom**
Sunday, July 17 – 9:00PM-12:00PM
*Location: Coronado B*
Instructor(s): Prof. Patrizia Busato, Prof. Remigio Berruto, Prof. Fedro Zazueta
Sponsored by Education Community

**LEVEL OF DIFFICULTY:** Entry Level

**TARGET AUDIENCE:** Individuals with teaching and extension education responsibilities including, faculty, lecturers and teaching assistants interested in acquiring knowledge and skills on active learning and flipped classroom instruction.

**LEARNING OBJECTIVES:** Describe flipped classroom principles and pedagogy; Identify required resources for successful delivery of a course in a flipped classroom format; Develop foundational skills to develop online and face-to-face materials for flipped classroom delivery.

**BENEFITS:** Implementing active learning pedagogies in engineering education has been shown to improve learning outcomes and higher levels of student satisfaction.

**COST:** $80.00

CPD #6
**Data Management**
Sunday, July 17 – 12:00PM-2:00PM
*Location: Fiesta 1*
Sponsored by YPC

This two hour course will introduce professionals to tools useful to increasing efficiency and managing daily activities. This course will assist in developing participants’ skills in applying better data presentation practices to their audiences.

**COST:** $30.00

CPD #7
**Marketing Yourself in Academia**
Sunday, July 17 – 12:00PM-2:00PM
*Location: Fiesta 2*
Instructor: Gloria Teague
Sponsored by YPC

This two-hour course will be a panel discussion to guide recent graduates and newcomers to academia. The focus will be on how to build relationships, partnerships, and develop key skills to be successful as an academic.

**COST:** $20.00

Tour #1
**I-Drive 360**
Sunday, July 17 – 12:00PM-3:30PM
*Location: Meet 15 minutes prior to scheduled departure at LaMesa Patio*

Visit Orlando’s newest addition, a complex in the heart of International Drive that is home to the 400-foot-tall The Orlando Eye. Fashioned after the London Eye, this iconic observation wheel provides amazing views of Central Florida. Before the 20-minute ride, you will see a 4-D film about Florida. The complex also features many attractions, restaurants, clubs and shops. Visit the World-famous celebrity wax attraction Madame Tussauds, or Sea Life Orlando – an aquarium where you will encounter sharks face-to-face via a 360-degree underwater tunnel. In addition, there are many shops and restaurants for you to explore, grab a bite to eat, or enjoy a refreshing beverage.

**COST:** $25.00 includes transfers and guide; entrance fees are additional and can be purchased on site.
INTERNATIONAL PREPROFESSIONAL COMMUNITY (IPC) BUSINESS MEETING – PART 1
Sunday, July 17 – 1:00PM-2:00PM
Location: Fiesta 6
The current IPC officers will focus on networking with other students and reviewing which session preprofessional attendees should attend to make the most of the conference. Attendance at this meeting is highly encouraged for all students and especially those in undergraduate competitions and those looking to run for an IPC office. Come represent your school and preprofessional chapter!

FOUNTAIN WARS PRESENTATION JUDGING
Sunday, July 17 – 1:00PM-4:30PM
Location: Fiesta 4
Are you interested in the preparation and creative behind the scenes efforts of the different Fountain Wars teams? Come listen to the oral presentation phase of the competition and get a heads up on what is going to be displayed at the building-testing phase that takes place on Monday.

COMMITTEE CHAIR/SESSION ORGANIZER/MODERATOR ORIENTATION
Sunday, July 17 – 2:00PM-4:00PM
Location: Fiesta 8
Basic instructions on how to use forums and other key notes for committee chairs. The process for the technical programming - from the submitting of sessions, organizing the sessions thru the actual process of moderating the session - will be reviewed. A time of questions and answers will be available.

AIM MEETING ORIENTATION (FOR STUDENTS/FIRST TIMERS)
Sunday, July 17 – 2:00PM-3:00PM
Location: Fiesta 6
Never been to an Annual International Meeting? Has it been a while since your last meeting? Are you looking to get more out of your meeting this year? If you answered yes to any of these, come to this YPC and IPC sponsored event! The AIM Meeting Orientation session will introduce what AIM is all about, AIM “etiquette”, new meeting opportunities and tips to make the most of your AIM experience.

UNDERGRADUATE POSTER SESSION
Sunday, July 17 – 3:00PM-4:30PM
Location: Veracruz C
This undergraduate poster competition encourages Preprofessional ASABE members to interact with industry, faculty, and fellow students by giving a technical poster presentation on an engineering project useful to agriculture and related areas. Feel free to come browse the posters, engage the students in dialogue about their experiences, or listen to their brief research poster summary. Winners of this competition will receive cash awards of $500, $300, and $200 for first, second, and third places, respectively.

ALPHA EPSILON ANNUAL MEETING
Sunday, July 17 – 4:00PM-5:00PM
Location: Fiesta 1
This is the annual meeting for the honor society recognizing outstanding Agricultural and Biological Engineering Students. Join us as we discuss the society’s latest activities and announce the recipients of this year’s chapter awards. Meeting attendees will be entered into a drawing for the door prizes.

ASABE WELCOME RECEPTION
Sunday, July 17 – 4:30PM-6:00PM
Location: Veracruz B/C
All meeting registrants are invited to attend our welcome reception. This is a good time to network with other attendees and to make further plans for dinner after the reception. A representative from Disney will have a representative available to assist you in making your dining reservations.

Event #6
WOMEN IN ASABE SPEED NETWORKING
Sunday, July 17 – 6:30PM-7:30PM
Location: Fiesta 6
Would you like to visit other women who participate in the annual meeting and perhaps share some of your same interests? This is the opportunity for you. You will be provided with suggested topics which will assist you in obtaining good information within a short period of time about other women attending this event. When the buzzer sounds you will move to another table to make another acquaintance. Preregistration is required but there is no registration fee to participate.

COST: Attendee – preregistration is required; Mentor - preregistration is required

Alumni Reception of College of Biosystems Engineering and Food Science, Zhejiang University
Sunday, July 17 – 6:30PM-10:00PM
Location: To be Announced
Alumni and visiting professors of College of Biosystems Engineering and Food Science, Zhejiang University are invited to enjoy a reception at a local restaurant and catch up with old friends. Please send email to shaojin_wang@wsu.edu by July 25th if you plan to attend.
ASABE Foundation

Silent Auction & Pick-a-Prize

Bidding closes Tuesday at 6pm. Items include farm equipment models, a Detroit long board, drill kit, unique works in wood, jewelry, logo items, wine, and more.

Disney $250 Gift Card
drawing Monday @ 5:55pm

Kids Fire Tablet
drawing Monday @ 5:55pm

MOD-t 3D Printer
drawing Tuesday @ 5:55pm

iPad Air 2
drawing Tuesday @ 5:55pm

Come visit us in the Foundation area of the Exhibit Hall! All proceeds support the KEYS Fund!

TICKETS SOLD during WELCOME RECEPTION & in EXHIBIT HALL until FINAL DRAWING

Portrait Studio

at the Career Fair
Monday, July 18th

Improve your personal brand with a portrait photo! No charge—donations accepted.

Foundation Dinner

Tuesday, July 19th

Fogo de Chao Brazilian Steakhouse

Ray Wheeler, who leads the Kennedy Space Center’s Advanced Life Support research efforts, will enlighten us with his dinner presentation on “Potatoes in Space.”

Come and enjoy what Fogo de Chao does best: towering skewers of meat carved tableside! Don’t miss “one small bite for man, one giant meal for mankind.”

Tickets available at the AIM registration desk.
2016 Fountain Wars Competition

Monday, July 18

Location: LaMesa Patio

1:00PM-5:00PM - Team Check-in, Build, Team Test / Adjustment

5:00PM-8:00PM - Competition

Come join in the fun and cheer your favorite team on to victory!!
**MONDAY, JULY 18**

**FOUNDATION PORTRAIT STUDIO**

Monday, July 18

**Location:** Veracruz B

Improve your personal brand with a portrait photo. Perfect for social media networking, employment opportunities, award announcements. Professional headshots offered in the Exhibit Hall.

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**GUIDE TO PROFESSIONAL LICENSURE**

Monday, July 18 – 7:00AM-8:00AM

**Location:** Coronado A

Come learn about the benefits of professional licensure and the ABCs of getting there. This session, jointly sponsored by the YPC and PEI, will provide an introduction to PE licensure and highlight professional and personal benefits of getting your PE. A panel of licensed engineers from both academia and industry will talk about their experience including why they decided to get licensed, what opportunities have come from it, and tips on how to prepare as well as answer any questions from the audience. All members, especially first time attendees, preprofessionals, and young professionals, are encouraged to attend. Refreshments will be provided.

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**ASABE GENERAL SESSION / RECOGNITIONS / KEYNOTE SPEAKER**

Monday, July 18 – 8:00AM-9:30AM

**Location:** Coronado H/J

ASABE President Mary Leigh Wolfe welcomes each of you to the 2016 ASABE Annual International Meeting. Our Keynote Speaker is Martin Richenhagen, President and Chief Executive Officer of AGCO Corporation.

Martin H. Richenhagen was selected by the Board of Directors in March 2004 as President and Chief Executive Officer of AGCO Corporation. He was appointed to Chairman of the Board on August 15, 2006, and continues to serve on the Executive Committee and the Succession Planning Committee.

Previously, Mr. Richenhagen was the Executive Vice President at Forbo International SA, a manufacturing firm, headquartered in Switzerland. He also served as Group President for CLAAS KgaA mbH, a global manufacturer of agricultural equipment, headquartered in Germany. Prior to 1995, Mr. Richenhagen was the Senior Executive Vice President of Field Operations for Schindler Holding GmbH in Germany.

Mr. Richenhagen is currently the Chairman of the German American Chambers of Commerce of the U.S. (GACCs), and he is a member of the U.S. Chamber of Commerce Board of Directors. He has served as Chairman of the Board of the Association of Equipment Manufacturers (AEM) and is a Life Honorary Director of AEM.

In the course of two decades, his manufacturing career has covered a wide array of executive positions and managing directorships with responsibility for sales, marketing, human resources management, acquisitions, joint ventures, logistics, materials purchase, inventory management and competitor intelligence.

An international business executive, Mr. Richenhagen is fluent in several languages and has lived overseas for many years. He graduated from the University of Bonn. In December 2008, Mr. Richenhagen was appointed Honorary Professor to the faculty of agricultural machinery at the TU Dresden, Dresden University of Technology (Germany).

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**FOUNTAIN WARS COMPETITION**

**LaMesa Patio**

**5:00PM-8:00PM**

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**Event #7**

**SPOUSE/GUEST BRUNCH**

Monday, July 18 – 9:00AM-11:30AM

**Location:** Meet at the LaMesa Patio 15 minutes prior to scheduled departure

Experience a nostalgic nautical visit to The Boathouse in the newly renovated Disney Springs. We will take the short drive to this magical complex of shops, restaurants and entertainment venues and enjoy brunch at this restaurant that features floating artwork – 19 rare dream boats from the 30’s, 40’s and 50’s that float along the dock outside the Boathouse. The boats are a collection from museums, private collectors and boat shows from around the world. Talk with knowledgeable captains who are available to answer questions about these classic boats. The views from the restaurant are matched by a delectable brunch dining experience.

**COST:** Included in cost of Spouse Registration; Guest Fee: $75.00 – includes transportation and brunch
CAREER FAIR  
Monday, July 18 – 9:30AM-12:00PM  
Location: Veracruz B

The Career Fair is just one of the many highlights of the ASABE Annual International Meeting. It is an outstanding networking opportunity that allows interested individuals to connect with the Fortune 500 companies, agricultural and bio-based businesses, bio-research companies and major land grant universities looking for qualified candidates. The ASABE Career Fair provides an opportunity for employees and potential employees to come together informally and share information. Academia will also be represented with opportunities at the masters and doctoral level. Employers register their job positions at the registration desk and receive an interview table number. These openings are posted with the table number located near the ASABE registration desk for review. Prospective employees are invited to seek out employers of interest and exchange information.

TS #116  
PLANT, ANIMAL AND FACILITY SYSTEMS DISTINGUISHED LECTURE SERIES – INVITED SPEAKERS  
Monday, July 18 – 9:30AM-12:00PM  
Location: Coronado S  
Sponsored by: PAFS-01  
Moderator: Jeremiah Davis

This series highlights the contributions of individuals whose work has advanced the structures and environment field. Keynote speakers are the 2015 recipients of the Henry Giese Structures & Environment Award and G.B. Gunlogson Countryside Engineering Award, followed with presentations by the 2015 PAFS superior paper recipients.

9:30AM  Introduction – Jeremiah Davis, Moderator
9:35AM  Challenges and Emerging Needs for the Next Generation of Animal Production Facilities  
Jay D. Harmon, Iowa State University, Ames, IA

10:20AM  TBA  
Gregory D. Williams, Facility Engineering Services, Springdale AR

11:05AM  Break
11:15AM  Effect of Measurement Density on Characterizing Air Velocity Distribution in Commercial Broiler  
Brian D Luck, University of Wisconsin-Madison, Madison, WI

11:35AM  Heat and Moisture Production Rates of a Modern U.S. Swine Breeding, Gestation, and Farrowing Facility  
John Stinn, Iowa Select Farms, State Center, Iowa

TS #114  
NATURAL RESOURCES & ENVIRONMENTAL SYSTEMS DISTINGUISHED LECTURE SERIES – INVITED SPEAKERS  
Monday, July 18 – 9:30AM-12:00PM  
Location: Fiesta 5  
Sponsored by: NRES  
Moderator: Sherry Hunt

Invited awardees will be making presentations.

9:30AM  Introduction – Sherry Hunt, Moderator
9:35AM  Agricultural Impacts on Water Resources: Recommendations for Leading Applied Research  
Daren Harmel, USDA ARS

9:55AM  A Look at Irrigation Technology Advancements through the Rear View Mirror, the Kansas Experience  
Danny H. Rogers, Kansas State Univ, Manhattan, KS

10:15AM  BREAK
10:25AM  Reflections – Better Irrigation by Using What We Already Know  
Robert von Bernuth, Waynesboro, VA

10:45AM  From an Undergraduate Agricultural Engineer to Head of an ABE Department: Some Things I’ve Learned Along the Way  
Bernard Engel, Purdue, Univ, West Lafayette, IN

FOUNDATION PORTRAIT STUDIO  
Monday, July 18– 9:30AM-12:00PM  
Location: Exhibit Hall -Veracruz B

Improve your personal brand with a professional headshot photo. The ASABE Foundation is offering professional quality headshots on Monday in the Foundation area of the Exhibit Hall. A high quality headshot is perfect for social media networking, web directories, and awards or research publications.
The 2016 Billion-Ton report (BT16) is third in a series of reports evaluating potential US biomass supply. Building on previous analyses, the BT16 (1) updates the farmgate/roadside analysis using latest-available data and specified enhancements, (2) adds additional feedstocks, including algae and specified biomass crops, and (3) expands the analysis to include scenario analysis of transportation costs to biorefineries under specified logistical assumptions. The 2016 Billion-Ton Report is scheduled to be released in July 2016. This session will be one of the first public presentations of the BT16 assumptions, methods, and results. The Regional Feedstock Partnership synthesis report, to be released in conjunction with the BT16, will also be presented in this session.
Tour #9
Lakeridge Winery Private Tour & Wine Tasting
Monday, July 18 – 1:00PM-6:00PM
**Location:** Tours depart from LaMesa Patio
Sponsored by YPC

Lakeridge Winery & Vineyards opened its doors in February 1989 in Clermont, Florida and sits on a 127-acre estate in gently rolling countryside some 25 miles west of downtown Orlando. This area was once the center of the State’s grape industry. After years of phenomenal growth, Lakeridge ranks as Florida’s largest premium winery, and remains a pioneer in the development of table and sparkling wines from muscadine and hybrid grapes, surviving in Florida because of their disease resistance and adaptability to the warm, humid climate. Currently at Lakeridge, there are about 80 acres of vineyards planted. Breeding programs over the past 50 years by plant geneticists and food scientists have brought about dozens of new types of Muscadine grapes and bunch grapes, some of which are excellently suited to winemaking. Begin your tour with a short video showing the growing of Florida grapes, to the wine making process and finishing, to the bottling and labeling. You will then see the vineyards and production area. Finish with a wine tasting to include Cabernet Sauvignon, Chardonnay, Chablis, Sunblush, Southern White, Southern Red, and Proprieter’s Reserve, served with gourmet cheese board pairings and crackers or French baguette. Please arrive 15 minutes before scheduled departure.

**COST:** $50.00 includes transportation, tour and tasting

TS #129
Freitag-Wismer Memorial Session on Traction and Mobility – Invited Speakers
Monday, July 18 – 2:30PM-5:00PM
**Location:** Coronado G
Sponsored by: MS-45
Moderator: Thomas R. Way

The Freitag-Wismer Memorial Session on Traction and Mobility is a session in honor of Dean Freitag and Bob Wismer. In this introductory presentation, Dr. Carol Plouffe will summarize the career of Bob Wismer and will present highlights of Wismer’s contributions in the areas of off-road traction and mobility, and related topics. Professor R. Lal Kushawaha will be making a presentation on Dr. Freitag’s lifelong contribution to this field.

2:30PM  Introduction – Thomas R. Way, Moderator
2:35PM  Dr. Freitag’s Contributions on Traction and Mobility  
Lal Kushawaha, University of Saskatchewan, Saskatoon, SK Canada
3:05PM  Contributions of Bob Wismer in the Advances of Traction and Mobility  
Carol Plouffe, Deere & Co., Moline, IL
3:35PM  Evaluation of Low Inflation Tire Technologies on Soil Compact  
Mehari Tekeste, Iowa State University, Ames, IA
3:55PM  Break
4:05PM  Why Tractive Footprint Length Matters  
Thomas R. Way, USDA ARS Auburn, AL
4:25PM  Modeling Soil-Cone Penetrometer Interaction Using Continuum and Discontinuum Approach  
Mehari Tekeste, Iowa State University, Ames, IA

TS #121
Curriculum Integration: The Capstone Course – Panel Discussion
Monday, July 18 – 2:30PM-5:00PM
**Location:** Cancun
Sponsored by EOPD
Moderator: Russell McGee

This session will facilitate the exchange of ideas and innovative methods that have been successful in the development of the senior Capstone Course at various universities. It is targeted toward the Ag-Mech/Ag-Systems course of study, but applicable to engineering senior design courses as well. Attendees will hear brief presentations on four different programs then participate in a discussion and interaction time.

Panelists:
Leon Schumacher, University of Missouri
Deepak R. Keshwani, University of Nebraska-Lincoln
Bob Stwalley, Purdue University
Russell McGee, Texas A&M University

**ASABE Robotics Student Design Competition:**

Location: Veracruz B

**Round 1 and Round 2**
Monday, July 18 – 1:00PM-5:00PM

**Round 3**
Tuesday, July 19 – 8:00AM-12:00PM
Learning Objectives: 1) what are different ecosystem services and how to enhance them using payment for ecosystem services (PES) programs; 2) how to develop, verify, value, and implement an ecosystem services program; 3) development of decision tools for evaluating and implementing ecosystem services; and 4) lessons learned from implementing the PES programs through collaboration between physical, biological, and social scientists and engineers. The invited session will achieve the learning objectives through a variety of presentations from accomplished scientists.

2:30PM Introduction
2:35PM Ecosystem Services: What Engineers Should Learn from Ecologist and Ecologists from Engineers
William Mitsch, Florida Gulf Coast University, Fort Myers, FL
3:00PM (EPES) 1: Everglades Payment for Environmental Services (EPES) – Water, Biodiversity, People
Hillary Swain, Archbold Expedition, Lake Placid, FL
3:15PM EPES2 – Quantification and Tradeoffs for Water Storage and Treatment Services
Sanjay Shukla, University of Florida, Immokalee, FL
3:30PM EPES3 – Quantification and Tradeoffs for Biological Diversity Services
Patrick Bohlen, University of Central Florida, Orlando, FL
3:45PM Implementing a Payment for Water Storage and Treatment Services Program
Benita Whalen, South Florida Water Management District, West Palm Beach, FL
4:00PM Break
4:10PM Application of The Nature Conservancy’s Resource Investment Optimization System (RIOS) to Evaluate Watershed Management Investments
Stephen Suau, Progressive Water Resources, Sarasota, FL
Len Shabman, Resources for Future, Washington, DC
4:45PM Designing Payments to Landowners Who Provide Wetland Ecosystem Services
Len Shabman, Resources for Future, Washington, DC
5:00PM Discussion and Concluding Remarks
Hilary Swain, Archbold Biological Station, Venus, FL
The 2016 Robotics Competition Challenge

Cash prizes for top three finishers - 1st $1,250; 2nd: $1,000; 3rd $750

This year’s objective will require the construction of a fully automated robotic system designed to simulate the transfer of citrus fruits from the harvester to the processing plant. Two mobile robots will be required for this competition where one will haul the fruits and transfer the fruits to the other robot, which will then move the fruits to its final destination (processing plant). The main emphasis on this year’s competition is on a cooperative, harvesting robot.

Location: Veracruz C

Monday, July 18 – 10:00AM-12:30PM; 1:00PM-5:00PM; Tuesday, July 19 – 8:00AM-12:00PM

ASABE ROBOTICS 2016
REGISTERED PARTICIPANTS
As of June 24, 2016

McGill University (1 Team)
Texas A&M (1 Team)
UC Davis (1 Team)
University of Nebraska – Lincoln (1 Team)
University of Florida (1 Team)
Kansas State University (1 Team)
Iowa State University (2 Teams)
Clemson University (2 Teams)
Zhejiang University (3 Teams)
University of San Carlos (1 Team)
California Polytechnic University (1 Team)

History of ASABE Robotics Competition

The ASABE Robotics Competition is a student design event that was conceived in 2006. The aim of the competition is to encourage undergraduate as well as graduate students to develop innovative robotic solutions to real life problems in the agricultural arena.

The competition travels with the Annual International Meeting, and hence, the solutions must allow transportation via airplane. The challenge will be communicated through the website and digital flyers describing the rules, requirements, limitations, deadlines and demonstration procedures.

The competition is open to students in one or more departments from a single University. There is no maximum number of team members per team, so multiple teams from a single University are allowed. Every team should have a faculty advisor who is also the contact person with ASABE. There are no classes or leagues, every team will work on the same Challenge. There are no limits to the budget. Teams are encouraged to obtain funding for their solutions and participation through on-campus resources such as departmental sources and Engineering Councils, as well as from companies. All participating students must be ASABE student members.

The solutions must be developed at the departments, and demonstrated at the ASABE Annual International Meeting. The requirements are that the teams demonstrate their solutions, give a presentation, and write a report. The teams’ performances will be judged by three judges from Industry as well as Academia.
TS #146
CATASTROPHIC DISEASE OUTBREAKS: ENGINEERING RESPONSES FOR LIVESTOCK PRODUCTION – INVITED SPEAKERS
Monday, July 18 – 2:30PM-5:00PM
Location: Fiesta 3
Sponsored by: PAFS-40
Moderator: Timothy Shepherd

Invited Speakers and Highlighted Research will provide insight and discussion surrounding the engineering challenges and needs of past and future catastrophic disease outbreaks in livestock production. Key topics will include: 2015 HPAI Outbreak, Strategic Mortality Management Planning, Whole-House Vaccination Methods for Poultry Facilities, Modeling of Airborne Transmission, and Biosecurity Assessment of transportation vehicles.

2:30PM Introduction
2:35PM Engineering Challenges and Responses to the Highly Pathogenic Avian Influenza Outbreak in Minnesota in 2015
Kevin A. Janni, University of Minnesota, St. Paul MN
3:05PM Whole House Poultry Vaccination System: Development and Field Implementation
Joseph L. Purswell, USDA ARS, Mississippi State, MS
3:35PM Positive Pressure Ventilation and Filtration of Swine Facilities-Application and Performance
John P. Stinn, Iowa Select Farms, State Center, IA
3:50PM Nutrient Management Considerations for Mass Depopulation Events
Kris Kohl, Iowa State University, Ames, IA
4:05PM Modeling Airborne Transmission of Avian Influenza Using Hybrid Single Particle Lagrangian Integrated Trajectory (HYSPLIT) Model
Yang Zhao, Iowa State University, Ames, IA
4:20PM Rapid Assessment of Cleanliness of Commercial Hog Transport Trailers Using ATP Bioluminescence Method
Alvin Alvarado, Prairie Swine Centre Inc., Saskatoon, SK, Canada

TS #142
GUIDELINES FOR HYDROLOGIC AND WATER QUALITY MODELING CALIBRATION AND VALIDATION PROJECT – RAP SESSION
Monday, July 18 – 5:15PM-7:00PM
Location: Fiesta 9
Leader(s) Bruce Wilson, University of Minnesota
Daniel Moriasi, USDA ARS
Daren Harmel, USDA ARS

Purpose: To 1) enable leaders of the proposed topic-specific engineering practices to present results to all members of the 201 hydrology group and 2) discuss the drafted topic-specific model calibration and validation engineering practices to reach consensus prior to submitting to ASABE Standards Committee for the formal approval process.

ORDER OF THE ENGINEER INDUCTION CEREMONY
Monday, July 18 – 4:00PM-5:00PM
Location: Durango 1/2

Engineering graduates and registered engineers are invited to accept the Obligation of the Engineer and a stainless steel ring which is worn on the little finger of the engineer’s working hand. All graduates of ABET accredited engineering programs; seniors in ABET accredited programs within two academic years of graduation; licensed PEs; and members of the Canadian Calling by reciprocity are invited to join the Order. All inductees must be present to accept their certificate and ring at the induction ceremony. The cost of entering the Order is $10.00 and inductees may register with Tina Schultz at schultz@asabe.org before the meeting or in person at the membership booth at the meeting. Learn more about the Order here - http://www.order-of-the-engineer.org/.

Tour #3
BEHIND THE SEEDS
Monday, July 18 – 3:30PM-5:30PM
Location: Tours depart from LaMesa Patio

Explore the future of agriculture and get up-close and personal with what happens behind the scenes in this tour at The Land Pavilion. This one-hour walking tour of the fish farm and 4 greenhouses that make up the Land Pavilion at Epcot is perfect for anyone interested in natural sciences and innovations in the science of farming. You will behold gigantic fruits and vegetables and unusual crops from around the world, and depending on timing, may taste some produce or release ladybugs into the greenhouse to help protect the plants. Discover the latest plant-growing techniques, including hydroponics, and take home a handout with some great ideas. Wear comfortable shoes for walking. Plan to arrive 15 minutes before scheduled to departure.

COST: $35.00 Includes roundtrip transportation to Epcot and guided back-of-house tour
Event #8

**WOMEN IN ASABE SOCIAL**
Monday, July 18 – 4:30PM-5:30PM

**Location:** Acapulco

The Women in ASABE Social is an informal mixer for all female ASABE members. Hosted by President Mary Leigh Wolfe and Past President Sonia Maassel Jacobsen, this event will provide a unique opportunity to meet, socialize and network with other women from across ASABE. Refreshments will be served. Registration is required but there is no charge for this event.

**COST:** Preregistration is required

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**Fountain Wars Competition**
Monday, July 18 – 5:00PM-8:00PM

**Location:** Competition will be held in the LaMesa Patio.

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Event #9

**ASSOCIATION OF AGRICULTURAL FOOD AND BIOLOGICAL ENGINEERS OF INDIAN ORIGIN (AABFEIO) BUSINESS MEETING AND DINNER**
Monday, July 18 – 5:30PM-9:30PM

**Location:** Fiesta 5

The 2016 Annual Business Meeting of AABFEIO will be held from 5:30PM to 6:30PM on Monday, July 18 at the ASABE conference venue. Following the meeting, the association will have its annual dinner from 7:00PM to 9:30PM. Dinner location will be announced. Tickets for students are discounted.

**COST:**
- $15.00 Students
- $25.00 AABFEIO ASABE member and family members
- $35.00 Non-AABFEIO ASABE member

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**Fellows Induction Ceremony / Reception**
Monday, July 18 – 6:00PM-8:00PM

**Location:** Coronado K/L

All registrants are invited to this special recognition ceremony and reception honoring the 2016 ASABE Fellows. ASABE defines a Fellow as a member of unusual professional distinction, with outstanding and extraordinary qualifications and experience in, or related to, the field of agricultural, food, or biological systems engineering.

Those inductees are:

- David D. Bosch
- Robert T. Burns
- Gary A. Clark
- Darrin J. Drollinger
- Joseph P. Harner
- Maynard M. Herron
- Kevin M. Keener
- Sue E. Nokes
- Randy L. Raper
- Michael D. Smolen
- Xiuzhi Susan Sun
- Thomas R. Way
- Ruihong Zhangr

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**Texas A&M Biological and Agricultural Engineering Reception**
Monday, July 18 – 8:00PM-10:00PM

**Location:** Baja

The Texas A&M University Biological and Agricultural Engineering Department invites you to join us in a reception for all Aggies and their supporters. We will meet at 7:00PM for complimentary appetizers and a cash bar. Gather with us to enjoy an update on the department!

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**Iowa State University ABE Reception**
Monday, July 18 – 8:00PM-9:30PM

**Location:** Cancun

Meet your old friends and make new ones and find out what is happening in the Department of Agricultural & Biosystems Engineering at Iowa State University.

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Event #10

**Graduate Student Social**
Monday, July 18 – 8:00PM-10:00PM

**Location:** Acapulco

This event will provide an informal setting for Graduate Students to socialize and make connections with their peers from other institutions around the world. It’s a great chance to get to know the people you’ll be seeing in the hallways all week!

**COST:** Preregistration is required

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**Virginia Tech Alumni & Friends Social**
Monday, July 18 – 8:00PM-10:00PM

**Location:** Durango 2

The Biological Systems Engineering Department at Virginia Tech cordially invites alumni and friends to this gathering on Monday evening. Come enjoy some refreshments and catch up on the happenings in the department and at Virginia Tech!

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Event #11

**University of Illinois Alumni & Friends Reception**
Monday, July 18 – 8:00PM-10:30PM

**Location:** Durango 1

Alumni & friends of the University of Illinois are invited to stop by to hear what is new with the Orange & Blue!

**COST:** Preregistration is required
TUESDAY, JULY 19
Purdue Alumni & Friends- Complimentary Breakfast
Tuesday, July 19 – 7:00AM-8:00AM
Location: Baja
Purdue University’s Dean of Agriculture, the Agricultural & Biological Engineering Department, and the Engineering Alumni Association invite all alumni and friends to their complimentary breakfast. Reservations are required!!

Event #12
Penn State Alumni and Friends Breakfast
Tuesday, July 19 – 7:00AM-8:30AM
Location: Acapulco
This event is open to all alumni, student, current employees, and friends of The Pennsylvania State University, sponsored by the Penn State Department of Agricultural and Biological Engineering. Come join us for the opportunity to meet old friends, faculty, students, and to get updated on the current happenings in the ABE Department. All guests are eligible to win door prizes.
COST: $12.00

Event #13
International Breakfast
Tuesday, July 19 – 7:00AM-8:30AM
Location: Cancun
The International Breakfast is a great opportunity to interact with peers from many different countries. If you are coming from abroad or have an interest in international issues this is the place to meet new people and begin long and fruitful working relationships. The speaker for this International Breakfast will be the 2016 recipient of ASABE’s prestigious Kishida Award.
COST: $15.00

Florida Agricultural Systems 101
Tuesday, July 19 – 7:00AM-9:00AM
Location: Coronado A
This YPC sponsored session is designed to highlight agricultural systems in the sunshine state, ranging from livestock operations to orchard farms. Attendees will get a comprehensive understanding of Florida’s unique production systems and innovative farming techniques from both a farmer’s and an engineer’s perspective.

Stop by to visit OUR BOOTH!
- FASABE Silent Auction - raising funds for scholarships, Student Support & Science Fair Awards – ends Tuesday, July 19th at Noon.
- University of Florida ABE and Florida Agricultural & Mechanical University BASE Student Displays
ETHICS ESSAY COMPETITION
Tuesday, July 19 – 8:00AM-9:00AM
Location: Yucatan 3
Speak Up! ASABE encourages you to consider issues important to the integrity of the profession. Choose a topic, research the facts, develop a position, and craft your arguments. Your original essay of up to 1500 words could earn you recognition and a cash award. The winning entry may be published in ASABE’s Resource magazine.

ASABE ROBOTICS STUDENT DESIGN COMPETITION – ROUND 3
Tuesday, July 19 – 8:00AM-12:00PM
Location: Veracruz B
The ASABE Robotics Competition continues with Round 3 of the competition.

K.K. BARNES STUDENT PAPER COMPETITION
Tuesday, July 19 – 9:00AM-10:00AM
Location: Yucatan 3
Invitations will be extended to the top three entries in the student paper competition. You can hear the authors of outstanding papers make their presentations. Come support the students from your school who may be participating. Winners will be recognized at the AEM/ASABE Student Awards Breakfast on Wednesday.

ASABE CAREER FAIR
Monday, July 18
9:30AM-12:00PM
Veracruz B

TS #213
MARVIN STONE MEMORIAL SESSION ON AGRICULTURAL ELECTRONICS – INVITED SPEAKERS
Tuesday, July 19 – 9:30AM-12:00PM
Location: Fiesta 6
Sponsored by: ITSC, MS
Moderator: Randy Taylor, Moderator
This session will honor the memory of Dr. Marvin Stone, an ASABE Fellow and former Board member with a long and distinguished career in the field of agricultural electronics. Internationally recognized, Dr. Stone was the recipient of the ASABE McCormick-Case Gold Medal, the Farrall Young Educator Award, and the Rosentreter Standards Award. After a brief recap of Dr. Stone’s contributions in research, teaching, and service, the session will include timely information on (a) communication networks on agricultural and off-road equipment; (b) real-time sensors in crop production; and (c) visions of future advances in sensors and controls in agriculture.

9:30AM Introduction
9:35AM Marvin Stone: A Career of Accomplishment and Service
Ronald Elliott, Oklahoma State University, Stillwater, OK
9:55PM Marvin Stone: Colleague and Mentor (A panel)
John Solie, retired, Oklahoma State University
Carol Jones, Oklahoma State University
Joe Dvorak, University of Kentucky
10:15AM Status and Future of Communications Networking on Agricultural Machinery
Peter van der Vlugt, Kverneland Group Nieuw Vennep BV, Nieuw-Vennep, Netherlands
10:45AM Break
10:55AM Status and Future of Real-Time Sensing in Crop Production
Joshua McGrath, University of Kentucky
11:25AM Visions of Future Advances in Sensors and Controls in Agriculture (A panel)
Terry Howell, Jr., McKee Foods and ASABE Past President (Panel Moderator)
John Reid, John Deere
Jeyam Subbiah, University of Nebraska-Lincoln
Steven Thomson, USDA National Institute of Food and Agriculture
**TS #225**

**DISTINGUISHED ADVANCES IN PROCESSING SYSTEMS – INVITED SPEAKERS**

**Tuesday, July 19 – 9:30AM-12:00PM**

**Location:** Yucatan 2

Sponsored by: PRS Revitalization Task Force, PRS-06, Machinery Systems,

Moderator: Christopher Butts, USDA ARS

This session is sponsored by the Executive/Steering Committee of the Processing Systems technical community. Presenters for this invited session will be recent recipients of ASABE Awards and Honors whose primary technical interest and expertise is in the Processing Systems Technical Community. Award winners presenting include the recipients of the International Food Engineering Award, the Kishida International Award, the Sukup Global Food Security Award and the PEI Professional Engineer of the Year Award. Come join us as we learn of the work of these esteemed members of the Processing Systems Technical Community.

**Tour #5**

**ORLANDO WETLANDS PARK AND CONSERV II FIELD TOUR**

**Tuesday, July 19 – 10:00AM-4:00PM**

**Location:** Tour departs from LaMesa Patio. Please be present 15 minutes prior to departure

The tour will encompass two large scale water reclamation systems. The largest water reuse project of its kind in the world, Water Conserv II reclaims over 70 million gallons daily by combining agricultural and recreational spaces irrigation with rapid infiltration basins to recharge Florida’s Aquifer.

The City of Orlando also has the Orlando Wetlands Park, one of the largest treatment wetlands providing a final polish to effluent from Orlando’s Iron Bridge Facility, and is capable of handling up to 35 million gallons daily.

Both facilities are quite large and will require a considerable amount of walking in the Florida sun.

Participants are encouraged to bring sun screen. Closed toed shoes and long pants are required.

**COST:** $100.00 includes transportation, tour guide, lunch

**AGCO NATIONAL STUDENT DESIGN COMPETITION**

**Tuesday, July 19 – 11:00AM-12:00PM**

**Location:** Yucatan 3

The top three entries for the Student Design Competition have been invited to this oral competition. Listen to these outstanding engineering design project presentations. Winners will be recognized at the AEM/ASABE Student Awards Breakfast on Wednesday.

**Tour #4**

**ORLANDO OUTLETS**

**Tuesday, July 19 – 11:00AM-3:00PM**

**Location:** Tour departs from LaMesa Patio – Please be present 15 minutes prior to departure

The Orlando Outlets are a shopper’s dream! This is a true shopping destination where you can find impressive savings of 25% to 65% off retail prices at over 150 designer and name-brand outlet stores. Featured stores include Coach, Cole Haan, Burberry, Tory Burch, Polo Ralph Lauren, Lenox, Saks Fifth Avenue Off 5th, J Crew, Kate Spade, Tumi, and so many more!

**COST:** $20.00 Includes transportation to the outlets and return to the hotel

**ASABE BUSINESS MEETING**

**Tuesday, July 19 – 12:00PM-12:30PM**

**Location:** Fiesta 5

ASABE President Mary Leigh Wolfe will chair the business meeting, which includes reports from the Treasurer, Foundation President and her year in review.

**Event #14**

**GRADUATE STUDENT PROFESSIONAL DEVELOPMENT ROUNDTABLE**

**Tuesday, July 19 – 12:00PM-2:00PM**

**Location:** Durango 1

A panel of renowned scientists will share their academic and professional experiences with current graduate students. This will not be a technical session, rather the panelists will provide tips and answer questions about starting and maintaining a desired career trajectory. Lunch will be served.

**COST:** $5.00

**GUNLOGSON ENVIRONMENTAL DESIGN COMPETITION**

**Tuesday, July 19 – 10:00AM-11:00AM**

**Location:** Yucatan 3

The top three entries for the Environmental Design Competition have been invited to this oral competition. Winners will be recognized at the AEM/ASABE Student Awards Breakfast on Wednesday.
**Quarter Scale Tractor Student Design Competition**
Tuesday, July 19 – 12:30PM-2:30PM
*Location: Yucatan 3*

Top finishing teams in the Team Presentation category from this year’s competition will give their winning presentations during this session. This is an excellent opportunity for students to see what a top presentation looks like and use that knowledge to improve their own presentation in future years. There will be ample time for Q&A, so come ready to learn.

**Thirsty Land Video**
Tuesday, July 19 – 12:30PM-2:00PM
*Location: Fiesta 5*

Thirsty Land is a documentary film that tells the story about extreme drought, agriculture, & the water crisis in the western United States and how these challenges impact farmers, urban communities, and the environment. The depleted water resources in the American Southwest is one of the most urgent challenges of the 21st century facing agriculture and growing urban communities. The drought on this region has local, national, and global impacts not only for the present, but also for future generations.

**ASABE Foundation Board of Trustees**
Tuesday, July 19 – 2:00PM-5:00PM
*Location: Yucatan 2*

This is the annual business meeting for the ASABE Foundation.

**Graduate School 101: A Panel Discussion for Undergraduates – Roundtable**
Tuesday, July 19 – 2:00PM-4:00PM
*Location: Fiesta 10*

A graduate student panel will share their academic experiences with current undergraduates. Undergrads will be encouraged to ask questions about selecting and applying to grad schools, housing and stipend concerns, what day-to-day life is like, etc.

**TS #230**
**AOCABFE & NERCITA China Exchange Forum – Invited Speakers**
Tuesday, July 19 – 2:30PM-5:00PM
*Location: Fiesta 6*
Sponsored by E-2050, AOCABFE
Moderator: Zhiming Qi, McGill Univ

The 2016 AOCABFE & NERCITA China Exchange Forum theme this year is “Agricultural and Biological Engineering for Tomorrow.” Under this theme, we will be hosting seven invited speakers from China and the US to present their research and education programs, share their experiences in collaborations between China and the US, and envision the future of technology and international collaboration for a sustainable tomorrow through agricultural and biological engineering.

2:30PM  Introduction
2:35PM  TBA
Gary Clark, Kansas State University
2:50PM  Perspective on the Development of Agricultural Engineering in the 13th Five-year Plan of China
Ming Zhu, Chinese Academy of Agricultural Engineering
3:05PM  US-China Cooperation in Precision Agriculture
Ken Sudduth, USDA ARS
3:20PM  Break
3:30PM  Monitoring Crop Growth in the Context of Precision Farming Using New Near-Ground and UAV-Based Imaging Systems
Yan Zhu, Nanjing Agricultural University
3:45PM  UC Davis New Model for International Cooperation
Zhongli Pan, USDA ARS
4:00PM  IJABE: Past and Future
Yingkuan Wang, Chinese Academy of Agricultural Engineering

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**Florida Section ASABE**
**Welcomes you to Florida!**
*Stop by and visit our booth!*

**FASABE Silent Auction** - raising funds for scholarships, Student Support and Science Fair Awards – ends Tuesday, July 19th at Noon
AN UPDATE ON THE ENVIRONMENTAL CAB STANDARD, ASABE S-613
– INVITED SPEAKERS
Tuesday, July 19 – 2:30PM-5:00PM
Location: Fiesta 5
Sponsored by MS
Moderator: Richard Job

A summary of the efforts to develop the environmental cab standard and what the standard means and can do for operations in contaminated environment.

2:30PM Introduction
2:35PM A Summary of Environmental Cab Standard Development: A Verbal Account of Some of the Important Issues from ASABE Paper #2461359
Richard W. Job, Retired Consultant
2:55PM Testing Efforts to Verify the Cab Standard and Issues with Filter Development for This Market
Michael Schmitz, Chief Technology Officer, Clean Air Filter
3:15PM Research Efforts in Mining Applications and Verification of the Elements of This Standard
John Organiscak, Research Engineer, NIOSH
3:35PM Break
3:45PM How Does the Development of This Standard Impact Other Industries
Al Leupold, Director of Test and Development, Bergstrom, Inc.
4:05PM An Update on EN 15695 and Other Issues Related to Operator Environment in the EU
Keith J. Hawken, Technical and Standards Director, Agricultural Engineers Association

TECHNICAL TRENDS AND CAREER OPPORTUNITY IN THE U.S. AND KOREA
– INVITED SPEAKERS
Tuesday, July 19 – 2:30PM-5:00PM
Location:
Sponsored by: AKABFE, P-2050
Moderator: Seung-Chul Yoon

This session is intended to facilitate communication between Korean and U.S. professionals and students in the field of agricultural, biological and food engineering. Discussions will center on 'Technical Trends and Career Opportunities in the U.S. and Korea,' and the invited speakers will address a wide range of topics covering trends both past and present as well as directions the profession will likely take in the future. Speakers will also offer practical advice on pursuing professional careers.

2:30PM Introduction – Seung-Chul Yoon, Moderator
2:35PM Past, Present and Future of AKABFE
Christopher Choi, University of Wisconsin-Madison, Madison, WI
2:50PM International Research Collaboration between Korea and US – Detection of Apple Marssonina Blotch Disease
Won Suk (Daniel) Lee, University of Florida, Gainesville, FL
3:05PM Recent Progress of Agricultural Machinery in Korea
Chang Hyun Choi, Sung Kyun Kwan University, Suwon Gyeonggi-Do, Korea
3:20PM Future Directions of the AKABFE Symposium
Bosoon Park, USDA ARS, Athens, GA
3:35PM Panel Discussion
4:05PM AKABFE Annual Report and Discussion

GRADUATE STUDENT INVOLVEMENT BUSINESS MEETING
Tuesday, July 19 – 4:00PM-5:00PM
Location: Fiesta 10

This meeting will be held to discuss and review this year’s Graduate Student Involvement activities, plan future progress, and form a planning committee to move forward with ideas for 2017.
AFRICAN NETWORK GROUP ANNUAL BUSINESS MEETING  
Tuesday, July 19 – 4:00PM-6:00PM  
Location: Yucatan 3  
Annual business meeting to receive and evaluate feedback on past year’s milestones and set new goals in alignment with the Society’s objectives. Old and new members as well as interested parties are cordially welcome to contribute and network.

YPC BUSINESS MEETING  
Tuesday, July 19 – 5:15PM-6:30PM  
Location: Yucatan 2  
The Young Professional Community annual business meeting is open to all YPC members. If you have a bachelor’s degree and are under the age of 35, you’re a member! Please come to discuss YPC activities, strategic goals, and meet your fellow YPC’ers.

Event #15  
ASSOCIATION OF OVERSEAS CHINESE AGRICULTURAL, BIOLOGICAL, AND FOOD ENGINEERS (AOCABFE) ANNUAL BUSINESS MEETING AND AWARD BANQUET  
Tuesday, July 19 – 5:15PM-10:00PM  
Location: Fiesta 6  
The AOCABFE annual meeting provides a platform for promoting and facilitating research and educational exchanges among researchers with Chinese origin or associations in the areas of agricultural, biological and food engineering. The ASABE meeting attendees with international collaboration interests are invited to attend the meeting as well. The AOCABFE activities in 2015-2016 will be reviewed and plans of action for 2016-2017 will be discussed. Following the business meeting the members of AOCABFE will be gathering at an off-site location for the awards dinner and an opportunity for socializing and networking. Recognition and awards will be presented at the banquet.  
COST: $65.00 member; $20.00 student

Event #16  
ASSOCIATION OF KOREAN AGRICULTURAL, BIOLOGICAL, AND FOOD ENGINEERS (AKABFE) MEETING  
Tuesday, July 19 – 5:30PM-7:00PM  
Location: Yucatan 1  
Association of Korean Agricultural, Biological, and Food Engineers (AKABFE) will have an annual meeting. A business meeting will take place and the Association dinner will follow at a nearby restaurant.  
COST: $30.00 member; $15.00 Student

Event #17  
FOUNDATION NETWORKING EVENT - FOGO DE CHAO  
Tuesday, July 19 – 6:00PM-10:00PM  
Location: Tour departs LaMesa Patio  
This year, the ASABE Foundation has planned a very special dinner fundraiser! Did you happen to read the book or see the movie “The Martian”? Growing potatoes on Mars? Dr. Ray Wheeler from NASA will join us and tell us that potatoes in space was part of his postdoctoral work at the University of Wisconsin in the 1980’s. Dr. Wheeler currently leads the Kennedy Space Center’s Advanced Life Support research efforts. Just this summer, astronaut Scott Kelly harvested and enjoyed “rocket” lettuce grown on the International Space Station as part of the “Veggie by NASA” program. Most importantly, some clues about possible impacts of this research on future agriculture will sure to be intriguing to both ASABE members and our guests.  
Join us and enjoy a massive salad bar and practically unlimited choice of protein at the Fogo de Chao Brazilian Steakhouse! Don’t miss “one small bite for man, one giant meal for mankind” and the exciting presentation by Dr. Wheeler. Network with your fellow ASABEer’s and many of our next generation!! (Students: sign up early and be sponsored again this year by CNH Industrial!!) Remember the good work of the Foundation and support its efforts advancing ASABE.  
COST: $100 per person

WEDNESDAY, JULY 20

Event #18  
PRAYER BREAKFAST  
Wednesday, July 20 – 6:30AM-8:00AM  
Location: Cancun  
The Fellowship of Christian Agricultural Engineers invites all meeting registrants, spouses and guests to the interdenominational prayer breakfast. The continental breakfast will begin promptly at 6:30AM and end at 8:00AM. Pre-registration is required.  
COST: $15.00

Event #19  
MEET AND GREET BREAKFAST WITH DEPARTMENT CHAIRS AND SENIOR FACULTY  
Wednesday, July 20 – 7:00AM-8:00AM  
Location: Baja  
This networking event is meant to connect late-career graduate students with department chairs and senior faculty members to discuss opportunities for further research and/or faculty position openings.  
COST: $5.00
Event #20
AEM/ASABE STUDENT AWARDS BREAKFAST
Wednesday, July 20 – 7:30AM-9:00AM
Location: Durango 1/2

The Association of Equipment Manufacturers (AEM) and the American Society of Agricultural and Biological Engineers (ASABE) invites all of the ASABE student members to attend the AEM/ASABE Student Awards Breakfast. This event is a wonderful time to learn more about the professional side of the world as you dine. Reservations must be made by on or before Tuesday, July 19. Breakfast reservations will be confirmed in your ASABE registration packet. All annual meeting attendees are encouraged to attend.

COST: $7.00

Event #23
GRAB AND GO BREAKFAST
Sponsored by Kansas State University
Wednesday, July 20 – 7:30AM-9:00AM
Location: LaMesa Patio

Start the day by making even more connections! Stop by between the hours of 7:30AM and 9:00AM on Wednesday, July 20 to grab a bite to eat, and stay as long as you like while joining with other Kansas State University students and alumni attending the AIM.

COST: $15.00

TS #319
SUSTAINABLE INTENSIFICATION
Wednesday, July 20 – 7:30AM-10:15AM
Location: Fiesta 8
Sponsored by NRES-01, NRES-26, ASE-16
Moderator: Alan C. Hansen, Manny Reyes

Sustainable Intensification (SI) is a topic receiving global attention, especially by agricultural and biological engineers. The purpose of SI is to increase agricultural productivity and quality, improve human nutrition and provide economic and social benefits, while simultaneously decreasing environmental impacts, labor and human drudgery, and water and energy needs. Such a strategy is of particular importance for developing countries challenged with the need for increased food production subject to limited resources. SI has been applied to a variety of value chains and agricultural production activities. The purpose of this invited session is to highlight the need for SI as well as detailing current and future efforts to address its practical implementation through appropriate strategies in a global context. Speakers with expertise and experience in SI will be invited to participate.

7:30AM Introduction
7:35AM Evergreen Agriculture a Sustainably Intensified System
   Dennis Garrity, World Agroforestry Centre, Nairobi, Kenya
7:50AM Conservation Agriculture with Trees a Sustainably Intensified System for Sloping Terrain
   Manuel Reyes, North Carolina A&T State University, Greensboro, NC
8:10AM Sustainably Intensified Vegetable Production System
   Don Immanuel Edralin, North Carolina A&T State University, Greensboro, NC
8:25AM Panel Discussion
ASABE 2016 Annual International Meeting

8:45AM  The United States Agency for International Development Global Research in Sustainable Intensification
Vara Prasad, Kansas State Univ, Manhattan, KS

9:00AM  Appropriate Scale Mechanization Innovation for Sustainable Intensification
Alan Hansen, University of Illinois, Urbana, IL

9:15AM  Panel Discussion

TS #342
ETHICS IN ENGINEERING – VIDEO COMPETITION
Wednesday, July 20 – 7:30AM-10:00AM
Location: Yucatan 2
Sponsored by EOPD-412
Moderator: Scott Mueller
The ASABE EOPD-412 committee invites ASABE preprofessionals and young professionals to participate in the 2016 Professional Engineering Ethics Video Challenge.
In a video of five minutes or less, describe an ethical issue(s) faced by agricultural and biological engineers in practice or research. Winners will receive a travel grant to the 2016 ASABE Annual International Meeting (AIM), where winning videos will be presented at the 2016 Ethics session sponsored by EOPD-412, as case studies for discussion of ethical scenarios.

INTERNATIONAL PREPROFESSIONAL COMMUNITY (IPC) BUSINESS MEETING - PART 2
Wednesday, July 20 – 10:00AM-11:00AM
Location: Coronado A
This is the main event of the International Preprofessional Community at AIM 2016. The current IPC officers will focus on electing new IPC officers. This is also the meeting where the longest mile award will be counted. Come cast your vote and show your support!

TS #325
PROGRAMS OF EXCELLENCE IN AGRICULTURAL SAFETY AND HEALTH – INVITED SPEAKERS
Wednesday, July 20 – 10:30AM-12:15PM
Location: Coronado D
Sponsored by: ESH
Moderator: Dee Jepsen
Previous winners of ASABE Blue Ribbon Awards, Superior Papers, and Standards Developer Awards with Ergonomics, Safety & Health topics will highlight their work with conference participants.

TS #336
EVERGLADES RESTORATION – INVITED SPEAKERS
Wednesday, July 20 – 10:15AM-12:30PM
Location: Coronado R
Sponsored by: Florida Section, NRES-26, NRES-21, NRES-28
Moderator: Richard Scholtz, Univ of Florida

10:15AM  Introduction
10:20AM  Florida Agricultural Water Supply and Conservation – Past, Present and Future
Camilo Gaitan, P.E., Florida Dept of Agriculture and Consumer Services, Tallahassee, FL

10:35AM  Engineering the Restoration of America’s Everglades
Tom VanLent, Everglades Foundation, Palmento, FL

10:50AM  Payment for Water Storage and Treatment Services in the Northern Everglades
Sanjay Shukla, University of Florida, Immokalee, FL

11:05AM  SFWMD L-8 Flow Equalization Project: Capturing Stormwater Runoff for the Restoration of the Florida Everglades – Part 2
David Scott, Jacobs Engineering Group, Palm Beach Gardens, FL

11:20AM  SFWMD L-8 Flow Equalization Project: Capturing Stormwater Runoff for the Restoration of the Florida Everglades – Part 1
David Scott, Jacobs Engineering Group, Palm Beach Gardens, FL

11:35AM  Using Quantitative and Qualitative Metrics to Compartmentalize the A.R.M. Loxahatchee National Wildlife Refuge Based on Habitat Suitability
Ian Hahus, University of Florida, Gainesville, FL

11:50PM  Phosphorus Treatment from Detection Areas in the Everglades through a Payment for Environmental Services Program
Asmita Shukla, Southwest Florida Water Management District, Brooksville, FL

12:05PM  Saving the Everglades: The World’s Largest Restoration Program
Joffre Castro, National Park Service, Ochopee, FL
Fundamentals of Engineering (FE) Information Session
Wednesday, July 20 – 11:00AM-12:00PM
Location: Fiesta 8
Are you graduating in the next 12 months? Do you feel unprepared to take the FE? If you answered yes to these questions, come to the FE information and review session to learn what is on the exam and how to master it from people who mastered it themselves.

Event #21
ASABE Awards Luncheon
Wednesday, July 20 – 12:30PM-2:30PM
Location: Coronado H/J
COST: Included with Registration
Additional tickets $40.00 per person
Pharos of Alexandria Global Learning (grad student -2016) Kathryn Douglass
Yoerger Preprofessional Engineer of the Year Cassidy Laird
Robert E. Stewart Engineering-Humanities Paul A. Lengemann
Gale A. Holloway Professional Development Alicia Modenbach
New Holland Young Researcher Changing “Charlie” Li
A.W. Farrall Young Educator Lisa R. Wilken
Sunkist Young Designer Santosh K. Pitla
John Deere Gold Medal Michael Dukes
Rain Bird Engineering Concept of the Year - Wenqiao Yuan, Duo Wang, Donghai Wang, Ajay Kumar “Char Supported Catalysts for Syngas Cleanup and Conditioning”
James R. and Karen A. Gilley Academic Leadership Bernard Engel
Evelyn E. Rosentreter Standards Richard W. Job
PEI Professional Engineer of the Year Dana Porter
Kishida International John Lumes
Sukup Global Security Food Award Carl Bern
McCormick Case Gold Medal Charles Sukup
Netafim Microirrigation Howard A. Wuertz
International Food Engineering Gustavo V. Barbosa-Canovas
Henry Giese Structures & Environment Hongwei Xin
ADS/Hancor Soil and Water Engineering Daren Harmel
G.B. Gunlogson Countryside Engineering Danny H. Rogers
Mayfield Cotton Engineering Michael D. Buser
SMV Technologies Ergonomics, Safety and Health H. Mark Hanna
Advancement of Surface Irrigation Earl Vories
Heermann Sprinkler Irrigation Robert von Bernuth
Massey-Ferguson Educational Gold Medal Raj Raman

Tour #6
Behind the Seeds
Wednesday, July 20 – 3:30PM-5:30PM
Location: Tour departs from LaMesa Patio
Explore the future of agriculture and get up-close and personal with what happens behind the scenes in this tour at The Land Pavilion. This one-hour walking tour of the fish farm and 4 greenhouses that make up the Land Pavilion at Epcot is perfect for anyone interested in natural sciences and innovations in the science of farming. You will behold gigantic fruits and vegetables and unusual crops from around the world, and depending on timing, may taste some produce or release ladybugs into the greenhouse to help protect the plants. Discover the latest plant-growing techniques, including hydroponics, and take home a handout with some great ideas. Wear comfortable shoes for walking.
COST: $35.00 Includes roundtrip transportation to Epcot and guided back-of-house tour

Event #22
Florida Section of ASABE 2016 Awards and Recognition Reception
Wednesday, July 20 – 6:30PM-8:30PM
Location: Yucatan
Recognition of ASABE Membership Pin Recipients, Florida Section ASABE Awards and FASABE Officers. Cash bar opens at 6:00PM
Sponsored by Tru-Flo Pumps Corporation
Florida Section ASABE Awards:
Outstanding Professional Engineer
Distinguished Achievement
Teacher of the Year
Outstanding Service
Outstanding Young Researcher
Outstanding Student
THURSDAY, JULY 21

Tour #7
KENNEDY SPACE CENTER
Thursday, July 21 – 9:00AM-4:00PM
Location: Tour departs from LaMesa Patio

Worlds apart from Orlando’s theme parks, but just a short drive away, Kennedy Space Center is NASA’s launch headquarters. Be among the millions of visitors each year who make the trek to this hub of technology and discovery where many of mankind’s greatest accomplishments take place. Tour NASA’s launch and landing facilities, experience live shows and jaw-dropping encounters with massive rockets, as well as have the opportunity to meet a member of the NASA Astronaut Corps. At the Visitor Complex, there is much to see and do, from live action theatrical shows to an educational Astronaut Encounter briefing. There are rockets from all eras of space exploration in the Rocket Garden, and you can walk through a full-size Space Shuttle mock-up. See space films on the 5-story IMAX Theater screens, and see an actual Gemini program capsule on display. There is also an opportunity for shopping and getting lunch at the food concessions.

COST: $130.00 Includes transportation and admission to the Kennedy Space Center, all films at the IMAX Theater and Visitor Complex, exhibits and shows, guide, and return transportation to the hotel.

Tour #8
BIOGAS RECOVERY SYSTEM GENERATING ELECTRICITY FROM COW MANURE
Thursday, July 21 – 8:00AM-6:00PM
Location: Tour departs from LaMesa Patio

This tour will be traveling to the Alliance Grazing Group, Trenton, Florida to view this recovery system.

COST: $125.00
COMMITTEES TO CONVENE

Updated: June 30, 2016
These committees are scheduled to meet in conjunction with the 2016 ASABE Annual International Meeting. An (asterisk (*)) by a specific committee indicates that the committee is meeting in closed session. Interested persons are welcome to all other committee meetings. Meetings will be held at the Coronado Springs Resort Convention Center in Orlando, Florida. Committees are listed by day, time and then room.

EXECUTIVE
ASABE Board of Trustees
Sunday, 10:30AM-1:30PM – Coronado F/G
Thursday, 10:30AM-3:00PM – Yucatan 1/2

ASABE Foundation Board of Trustees
Tuesday, 2:00PM-5:00PM – Fiesta 5

ASABE Foundation Orientation
Monday, 11:30AM-1:00PM – Fiesta 4

E-02 Constitution and Bylaws
NOT MEETING

E-05 Marketing and External Communications
Wednesday, 2:30PM-5:00PM – Fiesta 3

E-05/1 E-Week Coordinating Committee
Tuesday, 12:15PM-2:15PM – Coronado A

E-05/2 FFA Coordinating Committee
Tuesday, 12:15PM-2:15PM – Coronado A

E-05/3 Giving Back Fund
NOT MEETING

E-07 Issues Management & Social Action
Monday, July 18 – 6:30AM-8:00AM – Coronado B

E-08 Fellows
Monday, July 18 – 12:15PM-2:15PM – Coronado N

E-20 Finance
Sunday, 9:00AM-10:00AM – Coronado C

Nominating Committee
Monday, 12:15PM-2:15PM – Coronado R
Wednesday, 9:00AM-12:00PM – Baja

MEETINGS COUNCIL
Sunday, 1:30PM-3:30PM – Coronado D
Thursday, July 21 – 7:00AM-9:00AM – Fiesta 7

MEMBERSHIP DEVELOPMENT COUNCIL
Sunday, 1:30PM-3:30PM – Coronado A
Thursday, 8:00AM-10:00AM – Fiesta 10

M-102 Awards Coordinating
Tuesday, 8:00AM-9:15AM – Coronado E

M-111 John Deere/McCormick-Case Gold Medal
TBA

M-112 Massey-Ferguson Gold Medal
TBA

M-113 Engineering Concept of the Year
TBA

M-114 Young Researcher (New Holland)
TBA

M-115 Young Educator (A.W. Farrall)
NOT MEETING

M-116 Young Designer (Sunkist)
NOT MEETING

M-117 Larry W. Turner Young Extension Professional
TBA

M-122 Stewart Engineering Humanities
TBA

M-130 Sukup Global Food Security Award
NOT MEETING

M-131 Fellows Screening
TBA

M-151 Henry Giese ASABE Structures & Environment
TBA

M-152 ADS/Hancor Soil & Water Engineering
TBA

M-154 International Food Engineering Award
NOT MEETING

M-155 Gunlogson Countryside Engineering
NOT MEETING

M-156 Kishida International
Monday, 5:15PM-7:00PM – Coronado E

M-157 SMV Technologies Ergonomics, Safety and Health
TBA

M-158 Mayfield Cotton Engineering
TBA

M-159 Award for the Advancement of Surface Irrigation
TBA

M-160 Evelyn E. Rosentreter Standards Award
TBA

M-162 Heermann Sprinkler Irrigation Award
TBA

M-163 Gale A. Holloway Professional Development Award
NOT MEETING

M-164 Yoerger Preprofessional Engineer of the Year Award
TBA

M-165 Pharos of Alexandria Global Learning Award
TBA

M-166 James R. and Karen A. Gilley Academic Leadership Award
TBA

M-167 Netafim Award for the Advancements in Microirrigation
TBA

M-170 Historic Commemoration
Monday, 12:15PM-2:15PM – Fiesta 9

INTERNATIONAL
E-2050 /INTL-601,602,603,604 International Commission
Monday, 12:15PM-2:15PM – Coronado G

SECTION STEERING COMMITTEE
MDC-S02 Section Steering
Monday, 12:15PM-2:15PM – Fiesta 10
STUDENT ORGANIZATIONS AND AWARDS
P-120 Student Organizations
Tuesday, 8:00AM-9:15AM – Coronado C

P-121 G.B. Gunlogson Student Environmental Design Competition
Monday, 7:00pm-9:00pm – Coronado A

P-122 Boyd-Scott Graduate Research Award
TBA

P-123 Student Paper Competition (K.K. Barnes)
Tuesday, 7:30AM-8:00AM – Coronado D

P-124 AGCO National Student Design Competition
Tuesday, 7:00AM-8:00AM – Coronado C

P-125 AEM Student Trophies Competition
TBA

P-126 1/4 Scale Tractor Design Competition
TBA

P-127 Robotics Student Design Competition
Tuesday, 5:15PM-7:00PM – Coronado G

APPLIED SCIENCE & ENGINEERING
ASE-01 Executive / ASE-08
Tuesday, 5:15PM-7:00PM – Fiesta 7

ASE-05 Biological Engineering Transcations
NOT MEETING

ASE-09 Environmental Quality Coordinating
TBA

ASE-12 Forest Engineering
Tuesday, 5:15PM-7:00PM – Fiesta 8

ASE-16 Engineering for Sustainability
Tuesday, 4:30PM-6:30PM – Fiesta 2

EDUCATION, OUTREACH & PROFESSIONAL DEVELOPMENT
EOPD-01 Executive/Steering
Tuesday, July 19 – 12:15PM-2:15PM – Coronado D

EOPD-04 Referred Publications Review and Paper Awards
TBA

EOPD-203 Undergraduate & Graduate Instruction
Tuesday, 5:15PM-7:00PM – Coronado E

EOPD-204 Engineering & Technology Accreditation
Tuesday, July 19 – 8:00AM-9:15AM – Coronado P

EOPD-205 Engineering Technology & Management Education
Monday, July 18 – 12:15PM-2:15PM – Coronado M

EOPD-206 Agr Tech & Mgmt Curriculum Review & Program Recognizing
Monday, July 18 – 12:15PM-2:15PM – Coronado M

EOPD-208 Extension
Tuesday, July 19 – 8:00AM-9:15AM – Coronado Q

EOPD-210 Department Heads
Tuesday, 5:15PM-7:00PM – Coronado A

EOPD-210/1 Steering
NOT MEETING

EOPD-211 Undergraduate Engineering Prgm & Instructional Chairs
TBA

EOPD-412 Professional Ethics
Wednesday, July 20 – 10:30AM-12:00PM-Fiesta 7

EOPD-414 Engineering Licensure
Monday, 12:15PM-2:15PM – Coronado D

EOPD-416 Continuing Professional Development
TBA

ENERGY SYSTEMS
ES-02 Steering
NOT MEETING

ES-03 Energy Systems Standards Oversight
Monday, July 18 – 5:15PM-7:00PM – Coronado G

ES-04 Publications Review
TBA

ES-100 Energy Systems General Body
Monday, 6:15PM-7:30PM – Coronado C

ES-210 Renewable Power Generation
Tuesday, 5:15PM-7:00PM – Coronado C

ES-220 Biomass Energy & Industrial Byproducts
Tuesday, 7:00AM-8:00AM – Fiesta 3

ES-238 Solid Biofuels and US TAG for ISO TC 238
NOT MEETING

ES-238/2 Thermally Treated Solid Biofuels
NOT MEETING

ES-300 Electrical Utilization & Energy Application
Monday, 12:15PM-2:15PM – Coronado C

ES-310 Ag Lighting Group
Thursday, July 21 – 7:30AM-9:00AM – Fiesta 4

ES-311/3 Performance
TBA

ES-320 Electric Fence Controller
TBA

ES-330 Fan Testing
TBA

ES-400 Electrical Code for Agriculture
NOT MEETING

PUBLICATIONS COUNCIL
Sunday, 1:30PM-4:30PM – Coronado C
Thursday, 8:00AM-10:00AM – Fiesta 9

P-511 Referred Publications
Monday, July 18 – 6:00PM-8:30PM – Coronado D

P-513 Resource Editorial Board
Tuesday, July 19 – 1:00PM-2:30PM – Coronado C

P-515 Textbooks and Monographs
Tuesday, July 19 – 8:00AM-10:00AM – Coronado F

STANDARDS & TECHNICAL COUNCIL
Sunday, 1:30PM-3:30PM – Coronado B
Thursday, 8:00AM-10:00AM – Fiesta 9

STC-01 Standards Policy & Procedures
Wednesday, 4:30PM-6:30PM – Fiesta 1

STC-02 International Standardization
Monday, 5:00PM-6:00PM – Fiesta 1

ES-02 Steering
NOT MEETING

ES-03 Energy Systems Standards Oversight
Monday, July 18 – 5:15PM-7:00PM – Coronado G

ES-04 Publications Review
TBA

ES-100 Energy Systems General Body
Monday, 6:15PM-7:30PM – Coronado C

ES-210 Renewable Power Generation
Tuesday, 5:15PM-7:00PM – Coronado C

ES-220 Biomass Energy & Industrial Byproducts
Tuesday, 7:00AM-8:00AM – Fiesta 3

ES-238 Solid Biofuels and US TAG for ISO TC 238
NOT MEETING

ES-238/2 Thermally Treated Solid Biofuels
NOT MEETING

ES-300 Electrical Utilization & Energy Application
Monday, 12:15PM-2:15PM – Coronado C

ES-310 Ag Lighting Group
Thursday, July 21 – 7:30AM-9:00AM – Fiesta 4

ES-311/3 Performance
TBA

ES-320 Electric Fence Controller
TBA

ES-330 Fan Testing
TBA

ES-400 Electrical Code for Agriculture
NOT MEETING

102
ERGONOMICS, SAFETY & HEALTH
ESH-01 Executive / Oversight
Wednesday, 2:45PM-4:30PM – Fiesta 2
ESH-02 Policy and Forward Planning
TBA
ESH-03 Standards
Tuesday, 6:30PM-8:00PM – Fiesta 1
ESH-03/1 External Standard Development
Tuesday, 6:30PM-8:00PM – Fiesta 1
ESH-03/2 Internal Standard Development
Tuesday, 6:30PM-8:00PM – Fiesta 1
ESH-04 Technology Exchange
Tuesday, 8:00AM-9:15AM – Coro-

INFORMATION TECHNOLOGY, SENSORS & CONTROL SYSTEMS
ITSC-01 Executive
Sunday, 3:30PM-5:30PM – Fiesta 3
ITSC-02 Steering
Wednesday, 2:45PM-5:00PM – Coro-

MACHINERY SYSTEMS
MS-01 Executive /MS-02 Steering
Sunday, 6:00PM-8:00PM – Coron-
ado B
Wednesday, 7:00AM-8:00AM – Fi-
esta 2
MS-03 Machine Systems Standards
Oversight
Wednesday, 8:00PM-10:00PM – Fi-
esta 1
MS-03/2 Farm Materials Handling and Transport
Tuesday, 5:15PM-7:00PM – Fiesta 5
MS-04 Publications Review
Tuesday, 7:00AM-8:00AM – Fiesta 7
MS-05 Nominating
TBA
MS-23 & US TAG ISO/TC23
Wednesday, 6:30PM-8:00PM – Fi-
esta 1
MS-23/14 Ag Mach. – Sym., Disp & Man & US TAG ISO TC23/SC14
Monday, 7:00AM-8:00AM – Fiesta 1
MS-23/19 Ag Electronics & US TAG ISO TC23/SC19
Tuesday, 2:30PM-4:30PM – Fiesta 1
MS-23/19/1 Electronics for Mobile Equipment (ISOBUS)
Tuesday, 2:30PM-4:30PM – Fiesta 1
MS-23/19/3 Electronics for Identification (Animal)
Tuesday, 2:30PM-4:30PM – Fiesta 1
MS-23/19/5 Standards for Wireless Communications in Agr.
Tuesday, 2:30PM-4:30PM – Fiesta 1
MS-23/2 Ag Mach. – Common Tests & US TAG ISO TC23/SC2
Monday, 1:00PM-3:00PM – Fiesta 2
MS-23/2/1 Environment Within Ag Vehicle Enclosures
NOT MEETING
MS-23/2/2 ATSC ROPS Subcommittee
Monday, 10:00AM-11:00AM – Fi-
esta 1
MS-23/3 Ag Mach. – Operator Con-
fort & US TAG ISO TC23/SC3
Tuesday, 10:30AM-12:00PM – Fi-
esta 1
MS-23/3/1 Implement Jacks
NOT MEETING
MS-23/4 Tractors and US TAG ISO TC23/SC4
Wednesday, 9:30AM-12:00PM – Fi-
esta 1
MS-23/4/1 Agricultural Equipment Braking
Tuesday, 2:30PM-4:30PM – Fiesta 2
MS-23/4/2 Agricultural Loaders
NOT MEETING
MS-23/4/3 Lighting & Marking
Monday, 3:00PM-5:00PM – Fiesta 2
MS-23/4/4 Tractor & Implement Hy-
draulics
Tuesday, 7:00AM-8:00AM – Fiesta 1
MS-23/4/5 Tractor Implement Interface/PTO
Tuesday, 8:00AM-10:00AM – Fi-
esta 1
MS-23/6 Application Sys & US TAG ISO TC23/SC6
Monday, 5:30PM-7:30PM – Fiesta 2
MS-23/6 Application Sys – WG18
Tuesday, 12:30PM-2:30PM – Fiesta 1
MS-23/6/1 Liquid Materials Application
Monday, 7:30PM-9:00PM – Fiesta 2
MS-23/6/2 Aviation
Tuesday, 5:15PM-7:00PM – Coro-

103
MS-23/7/1 Grain Harvesting  
NOT MEETING

MS-23/7/2 Forage & Biomass Engineering  
Tuesday, 4:30PM-6:30PM – Fiesta 1

MS-23/7/3 Cotton Engineering  
Wednesday, 9:00AM-10:00AM – Yucatan 3

MS-45 Soil-Plant-Machine Dynamics  
Monday, 5:15PM-7:00PM – Coronado F

MS-47 Distinguished Lecture Series  
TBA

MS-48 Specialty Crop Engineering  
TBA

MS-49 Crop Production Systems, Machinery, and Logistics  
Monday, 5:15PM-7:00PM – Coronado M

MS-52 Turf & Landscape Equipment Systems  
Tuesday, 1:30PM-2:30PM – Fiesta 2

MS-54 Precision Agriculture  
Tuesday, 8:00AM-10:00AM – Fiesta 2

MS-58 Agricultural Equipment Automation  
Tuesday, 6:30PM-8:00PM – Fiesta 2

MS-60 Unmanned Aerial Systems  
Tuesday, 7:00PM-9:00PM – Fiesta 4

NATURAL RESOURCES & ENVIRONMENTAL SYSTEMS

NRES-01 Executive  
Sunday, 3:30PM-5:30PM – Coronado A

NRES-02 Steering  
Wednesday, 2:45PM-5:00PM – Coronado B

NRES-03 Natural Resources & Environmental Systems Standards Oversight  
Wednesday, 6:00AM-7:30AM – Coronado Q

NRES-03/2 US TAG ISO TC23/SC18  
Tuesday, 7:00AM-8:00AM – Coronado Q

NRES-04 Program  
Sunday, 3:30PM-5:30PM – Coronado A

NRES-05 Publications Review  
Monday, 6:30AM-7:30AM – Fiesta 7

NRES-06 Paper Awards  
Not Meeting

NRES-07 Nomenclature  
NOT MEETING

NRES-09 Forward Planning  
Sunday, 3:30PM-5:30PM – Coronado A

NRES-21 Hydrology Group  
Tuesday, 8:00AM-9:15AM – Coronado N

NRES-22 Erosion Control Group  
Tuesday, 12:15PM-2:15PM – Coronado N

NRES-223 Erosion Control Research  
Tuesday, 12:15PM-2:15PM – Coronado N

NRES-224 Pollution by Sediment  
Tuesday, 12:15PM-2:15PM – Coronado N

NRES-225 Conservation Systems  
Tuesday, 12:15PM-2:15PM – Coronado N

NRES-23 Drainage Group  
Tuesday, 5:15PM-7:00PM – Coronado S

NRES-24 Irrigation Group  
Tuesday, 5:15PM-7:00PM – Fiesta 9

NRES-241 Sprinkler Irrigation  
Tuesday, 5:15PM-7:00PM – Fiesta 9

NRES-242 Surface Irrigation & Water Supply  
Tuesday, 5:15PM-7:00PM – Fiesta 9

NRES-244 Irrigation Management  
Tuesday, 5:15PM-7:00PM – Fiesta 9

NRES-245 Microirrigation  
Tuesday, 5:15PM-7:00PM – Fiesta 9

NRES-246 Turf & Landscape Irrigation  
Tuesday, 5:15PM-7:00PM – Fiesta 9

NRES-246/2 Turf & Landscape Irrigation  
Tuesday, 5:15PM-7:00PM – Fiesta 9

NRES-246/3 Turf & Landscape Irrigation  
Tuesday, 5:15PM-7:00PM – Fiesta 9

NRES-25 Streams, Reservoirs, and Wetlands Group  
Tuesday, 5:15PM-7:00PM – Coronado P

NRES-251 Hydraulic Structures  
Tuesday, 5:15PM-7:00PM – Coronado P

NRES-252 Geomorphology, Streambank Stability & In-Stream Processes  
Tuesday, 5:15PM-7:00PM – Coronado P

NRES-253 Riparian Zones, Floodplains, and Wetlands  
Tuesday, 5:15PM-7:00PM – Coronado P

NRES-254 Sustainable Land Resources  
Monday, 5:15PM-7:00PM – Fiesta 7

NRES-262 Home Sewage Disposal  
TBA

NRES-265 Soil and Groundwater Remediation  
TBA

NRES-27 Agricultural Byproducts & Animal Mortality Management  
Tuesday, 12:15PM-2:15PM – Coronado Q

NRES-28, Ecological Engineering  
Tuesday, 7:00AM-8:00AM – Coronado N

PLANT, ANIMAL AND FACILITY SYSTEMS

PAFS-01 Executive  
TBA

PAFS-02 Steering  
Wednesday, 3:00PM-5:00PM – Coronado A

PAFS-03 Standards Oversight  
Tuesday, 7:00PM-9:00PM – Fiesta 3

PAFS-04 Paper Awards  
NOT MEETING

PAFS-05 Publications Review  
TBA

PAFS-06 Program  
TBA

PAFS-07/1 Agri-Industrial Facility Design and Operation  
TBA

PAFS-20 Structures Group  
Tuesday, 5:15PM-7:00PM – Fiesta 3

PAFS-20/4 Bulk Solids Handling and Storage  
Monday, 5:15PM-7:00PM – Fiesta 4

PAFS-234 Fisheries & Aquaculture  
TBA

PAFS-30 Plant Systems Group  
TBA

PAFS-40 Facilities & Systems Group  
Monday, 5:15PM-7:00PM – Fiesta 10

PAFS-403/1 Milk Handling Equipment  
Tuesday, 12:30PM-2:15PM – Fiesta 3

PAFS-50 Environmental Air Quality  
Tuesday, 8:00AM-9:15AM – Fiesta 3

PROCESSING SYSTEMS

PRS-01 Executive & Steering  
Sunday, 3:30PM-5:30PM – Fiesta 2
Wednesday, 2:30PM-5:00PM – Coronado C
PRS Community Meeting
Monday, 12:15PM-2:15PM – Fiesta 6
PRS-02/2 Nominating
Monday, 12:15PM-2:15PM – Fiesta 6
PRS-03 Processing Systems Standards Oversight
Monday, 5:15PM-7:00PM – Yucatan 1
PRS-04 Publications
Monday, 7:00AM-8:00AM – Fiesta 9
PRS-06 General Program
Monday, 12:15PM-2:15PM – Fiesta 6
PRS-280 Bioconversion and Bio-processes
Monday, 12:15PM-2:15PM – Fiesta 6
PRS-293 US TAG for ISO TC 293 Feed Machinery – TBA
PRS-701 Physical Properties of Ag & Biological Products
Monday, 12:15PM-2:15PM – Fiesta 6
PRS-702 Crop & Feed Processing & Storage
Tuesday, 12:15PM-2:15PM – Fiesta 6
PRS-703 Food Processing
Monday, 12:15PM-2:15PM – Fiesta 8
PRS-707 Food & Organic Waste Management & Utilization
Tuesday, 7:00AM-8:00AM – Yucatan 1

PROFESSIONAL ENGINEERING INSTITUTE
PEI Professional Engineers Institute
Monday, 12:15PM-2:15PM – Coronado D

OTHER COMMITTEES
ABET Program Evaluation (PEV) Introduction
Wednesday, 9:00AM-10:00AM – Yucatan 2
ABET Refresher for PEVs and Department
Wednesday, 10:00AM-11:00AM – Yucatan 2
ABET Program Administrators
Wednesday, 11:00AM-12:00AM – Yucatan 2
Foundation Development Committee
Monday, 5:15PM-7:00PM – Coronado N

ISO WG 13
Monday, 9:30AM-2:00PM – Fiesta 3
Global Food Security Conference Coordinating Committee
Saturday, 7:00PM-9:00PM – Fiesta 1
NRCS
Sunday, 5:30PM-6:30PM – Coronado A
Past Presidents Roundtable
Monday, 2:30PM-3:30PM – Baja
PRS Revitalization Task Force
Tuesday, 8:00AM-9:15AM – Yucatan 2
Quarter Scale Tractor
Tuesday, 12:30PM-2:30PM – Yucatan 3
Water Security Conference Planning Meeting
Tuesday, 6:30PM-8:00PM – Coronado T
Young Professionals Community
Tuesday, 5:15PM-7:00PM – Yucatan 2

ASABE Foundation
Silent Auction & Pick-a-Prize

Bidding closes Tuesday at 6pm. Items include farm equipment models, a Detroit long board, drill kit, unique works in wood, jewelry, logo items, wine, and more.

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Website www.campbellsci.com

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Phone (847) 226-5166
Website www.cnhindustrial.com

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Phone (812) 375-1319
Website www.emiworld.org

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Phone (208) 526-8098
Website www.inl.gov

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Contact Maureen Nassie
Email maureen.nassie@netafim.com
Phone (888) 638-2346
Website www.netafimus.com

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Contact Steve Fournier
Email steve.fournier@orival.com
Phone (551) 228-5480
Website www.orival.com

Senninger
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Phone          (863) 382-2166
Website        www.tradewindspower.com

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- FASABE Silent Auction - raising funds for scholarships, Student Support & Science Fair Awards – ends Tuesday, July 19th at Noon.
- University of Florida ABE and Florida Agricultural & Mechanical University BASE Student Displays

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