



# Meetings & Sessions

## SUNDAY, JUNE 29

E#5

### PROFESSIONAL ENGINEERING EXAM WRITING SESSION

**SUNDAY, JUNE 29 8:00AM-5:30PM**

**Location: Narragansett Ballroom C-Westin**

Persons involved in writing the Ag Engineering PE exam will meet to write questions for the upcoming exam. All attendees must have prior approval to participate. Please contact Jay Harmon at [jharmon@iastate.edu](mailto:jharmon@iastate.edu) or 515-294-0554 for approval or more information.

**COST: No charge but must preregister**

### ALPHA EPSILON NATIONAL HONOR SOCIETY ANNUAL MEETING

**SUNDAY, JUNE 29 3:00PM-4:30PM**

**Location: Exhibit hall Seating - RICC**

The annual Alpha Epsilon National Honor Society Meeting will be held. All current members and advisors from active chapters are encouraged to attend.

### THE PATH TO BECOMING A PROFESSIONAL ENGINEER

**SUNDAY, JUNE 29 3:00PM-4:30PM**

**Location: Providence Ballroom IV-Westin**

How do I become a PE? What is the process, and when should I take the exams? What impact will licensure have on my career? Could I earn more if I have a license? The licensure process and model law will be changing in coming years, learn how and when these changes will occur and the impact they will have to the profession. This session is free. Conducted and sponsored by the Professional Engineering Institute of ASABE.

### ASABE<sup>100</sup> HIGH SCHOOL MULTI-MEDIA COMPETITION INFORMATIONAL MEETING FOR PARTICIPANTS

**SUNDAY, JUNE 29 3:30PM-4:00PM**

**Location: Providence Ballroom III-Westin**

This is an informational meeting for the ASABE High School Multi-Media Competition contestants, parents and organizers. (Note: This is not open to other meeting attendees.)

### ASABE WELCOME RECEPTION

**SUNDAY, JUNE 29 4:30PM-6:00PM**

**Location: Exhibit Hall C-RICC**

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. The Rhode Island Convention and Visitors Bureau will have a representative available to assist you in making your dining reservation.

## MONDAY, JUNE 30

### WHAT YOU DIDN'T KNOW ABOUT ASABE

**MONDAY, JUNE 30 7:00AM-8:00AM**

**Location: Water Place I-Westin**

Come to an informational session hosted by the Young Professional Community to introduce new and old members alike to the many opportunities available in ASABE. Topics to be addressed include Professional Licensure, the ASABE Peer Review Process, How to Navigate Online Member Services, and an Overview of the Meeting. Refreshments will be provided. All members, especially first-timers and preprofessionals are invited to attend.

### AE50 RECOGNITION PROGRAM

**MONDAY, JUNE 30 7:30AM-8:30AM**

**Location: Ballroom A-B-C-RICC**

The AE50 program annually recognizes the companies responsible for engineering development of the most outstanding innovations in product or system technology that have been introduced to the marketplace for use in food processing, agricultural production, or development and production of biological products. The winners embody the application of new technology or the innovative application of an existing technology. They have a broad impact on the industries they serve. The awards are determined by a panel of experienced ASABE members with representatives from each area of ASABE. Each winning entry must be deemed by this committee to be a worthwhile contribution to the advancement of food and agriculture. Plaques will be awarded.

### GENERAL SESSION & KEYNOTE

**MONDAY, JUNE 30 8:30AM-9:30AM**

**Location: Ballroom A-B-C-RICC**

The Keynote Speaker for the General Session will be Patrick Hanlon the author of "Primal Branding", a new look at the way brands are created, sustained and propelled.

Hanlon is Chief Executive Officer and founder of Thinktopia, an idea task force whose slogan is, "better thoughts through thinking."



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# Meetings & Sessions



## MONDAY, JUNE 30

### ASABE<sup>100</sup> HIGH SCHOOL MULTI-MEDIA COMPETITION PRESENTATIONS

**MONDAY, JUNE 30 9:30AM-11:30AM**

**Location: Waterplace II & III-Westin**

The top three entries in the ASABE High School Multi-Media Competition will be presented by the student competitors. Everyone is welcome to attend these presentations which will decide the final ranking for the top prize winners.

Technical Session 105

### CENTENNIAL SESSION ON ADVANCES IN SOIL AND WATER ENGINEERING

**MONDAY, JUNE 30 9:30AM-12:00PM**

**Location: Rotunda-RICC**

This special session consists of five invited presentations from internationally recognized experts in soil and water engineering. The objective is to showcase examples of both outstanding past accomplishments and exciting new initiatives by agricultural and biological engineers working with soil, water, plants, the environment, and ecology.

E#17

### HOW CAN LARGE SCALE HYDROLOGIC MODELING ENHANCE STUDENT LEARNING AND DECISION MAKING

**MONDAY, JUNE 30 12:00PM-2:30PM**

**Location: Rotunda-RICC**

This workshop is intended for educators interested in teaching the effect of scaling on soil water interaction and large-scale hydrologic models. It is also intended for graduate students in the fields of hydrology and soil-water interaction.

**COST: \$75.00**

Session 141

### BIOLOGICAL ENGINEERS THIRD STANDARDS ROUNDTABLE DISCUSSION

**MONDAY, JUNE 30 2:30PM-5:00PM**

**Location: Ballroom C-RICC**

Invited panelists, members from the Biological Engineering division and other interested persons will meet to exchange ideas and stimulate discussion focusing on advancement of standards in Biological Engineering.

### GRADUATE STUDENT RESEARCH AWARD COMPETITION

**MONDAY, JUNE 30 2:30PM-5:00PM**

**Location: Waterplace II & III-Westin**

The Graduate Student Research Award (GSRA) Competition sets out to recognize excellence in the conduct and presentation of agricultural and biological engineering research carried out by graduate student members. The competition is held in two parts: a written competition and an oral presentation competition for the top three finalists in the M.S. and Ph.D. categories, which is held at the ASABE Annual Meeting.

Session 127

### DISTINGUISHED LECTURE SERIES - "POWER HOP INSTABILITY OF TRACTORS"

**MONDAY, JUNE 30 3:30PM-5:30PM**

**Location: 555-B-RICC**

Presenters: Jack C Wiley, Principal Engineer, Retired  
Deere & Company Technology Center, Moline, IL  
Reed J. Turner, Project Engineer, Retired  
The Agricultural Technology Centre, Lethbridge, AB Canada



Jack C. Wiley

Power hop is a "porpoising" type of pitch / bounce oscillation superimposed on the forward motion of tractors equipped with pneumatic tires. It is most often observed with tractors having two powered axles pulling towed implements in moderate to high draft field operations on dry soils. As power hop begins, the tractor exhibits gradually increasing



Reed J. Turner

vibration amplitudes until the operator, of necessity, has to take action to maintain control of the vehicle. In this paper, the phenomenon is shown to be a self-excited vibration. This result follows from a stability analysis of a mathematical model of the tractor-implement system. The model results were confirmed with extensive tests conducted on both concrete test tracks and in numerous different soil conditions. Adjustments of fore-aft weight distribution and of front and rear vertical stiffnesses as influenced by tire inflation pressures are shown to be required for power hop control. During the course of research conducted in collaboration with several tractor tire manufacturers, it was found necessary to extend the tire load-inflation pressure tables to lower pressure limits in order to reduce stiffnesses enough to control power hop. The new tables were introduced early in 1992 and are now being used worldwide. In addition to controlling power hop, use of these lower inflation pressures has been shown to significantly increase tractor productivity and fuel economy, reduce soil compaction, improve ride quality, and reduce tire wear.

### STANDARDS COMMITTEE REAFFIRMATIONS AND PERIODIC REVIEWS, GOOD & BAD EXAMPLES

**MONDAY, JUNE 30 5:00PM-6:00PM**

**Location: Kent Room-Westin**

ASABE Standards must be reviewed every five years for applicability, use, and current content. If you're on a committee that does standards, you will definitely want to attend this session to find out how your committee should be going about its periodic review process. Carte blanche reaffirmation is not always the best method!

## TUESDAY, JULY 1

### ASABE ROBOTICS STUDENT DESIGN COMPETITION

**TUESDAY, JULY 1 8:00AM-10:00AM**

**Location: Ballroom E-RICC**

Student teams will demonstrate their solutions to a robotics challenge. This year the challenge consists of developing a timber harvesting system where trees of varying diameters need to be collected by autonomous machines similar in design to a feller buncher.



# Meetings & Sessions

**TUESDAY, JULY 1**

## **ASABE CAREER FAIR**

**TUESDAY, JULY 1**

**9:30AM-12:00PM**

**Location: Ballroom D-RICC**

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 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 employers 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 membership desk and receive an interview table number. These openings are posted with the table numbers located near the ASABE registration desk for review. Prospective employees are invited to seek out employers of interest and exchange information.

There is no additional fee for participating in the Career Fair. A minimum of a one-day registration is required. For more information contact the Meetings Department at: [mtgs@asabe.org](mailto:mtgs@asabe.org) or 269-429-0300.

Session 201

## **INTRODUCTION TO ISO 25119 SAFETY RELATED PARTS OF CONTROL SYSTEMS STANDARD**

**TUESDAY, JULY 1**

**9:30AM-12:00PM**

**Location: Rotunda-RICC**

This standard has the status of an application standard and is intended to give guidance during the design and assessment of control systems. International Standard ISO 25119 sets out the approach for all safety lifecycle activities for safety relevant systems comprised of electrical and/or electronic and/or programmable electronic components (E/E/PES) applied to agricultural forestry and municipal equipment.

Session 221

## **CHINA EXCHANGE**

**TUESDAY, JULY 1**

**9:30AM-12:00PM**

**Location: Ballroom C-Rotunda**

China Exchange is a jointly sponsored session by the American Society of Agricultural and Biological Engineers (ASABE) and the Association of Overseas Chinese Agricultural, Biological, and Food Engineers (AOCABFE). The purpose of the session is to provide a forum for sharing and exchanging visions, experiences, and new ideas for promoting and developing scholarly cooperation activities between the institutions or individuals in China and in other countries in the area of agricultural, biological, and food engineering.

Session 222, 247, 248

## **BIOENERGY**

**TUESDAY, JULY 1**

**9:30AM-6:30PM**

**Location: Ballroom C-RICC**

Tuesday has been set aside as a day for Bioenergy presentations. The morning session will include invited presentations, followed on Tuesday afternoon with close to 100 poster presentations and then following at 4:00pm will be additional invited presentations.

E #30

## **SOCIETY UPDATE AND RECOGNITION LUNCHEON**

**TUESDAY, JULY 1**

**12:30PM-2:00PM**

**Location: Narragansett Ballroom A-C-Westin**

President Donald C. Erbach and President-Elect James Dooley will preside over the society's update and business meeting. There will be a luncheon included.

Those being recognized at this luncheon will be:

- Past Presidents
- Board of Trustees & Councils
- International Preprofessionals Council
- Book Authors
- Retiring Division Editors
- Outstanding Reviewers
- Conference Chairs
- Paper Awards
- Standards Developers Award
- IET Division Meeting Paper Awards
- Educational Aids Blue Ribbon Awards
- AE50 Awards
- Presidential Distinguished Service Award

**NOTE: You must indicate on your registration form that you plan to attend the luncheon to receive a ticket.**

**COST:** Included with full meeting registration and spouse/guest registration

Additional tickets: **\$30.00**

Session 249

## **ACCREDITATION ISSUES FOR THE ACADEMIC COMMUNITY - ABET**

**TUESDAY, JULY 1**

**2:30PM-5:00PM**

**Location: Kent Room-Westin**

## **YPC BUSINESS MEETING**

**TUESDAY, JULY 1**

**5:00PM-6:00PM**

**Location: Waterplace I-Westin**

The YPC business meeting reviews the progress of committees from 2007 and updates members on status of events sponsored by the YPC at AIM. All professional ASABE members 34 or younger are encouraged to attend. Please contact Candice Johnson at [johnsoncandice1@johndeere.com](mailto:johnsoncandice1@johndeere.com) or (515) 480-3789 if you would like to add an item to the agenda in advance.

## **ASABE FELLOWS INDUCTION CEREMONY**

**TUESDAY, JULY 1**

**6:00PM-8:00PM**

**Location: Biltmore Hotel**

All ASABE attendees are invited to this special recognition ceremony honoring the 2008 ASABE Fellows – the most distinguished honor given to ASABE members. Join us for the reception immediately following the ceremony.

# Meetings & Sessions



## TUESDAY, JULY 1

E#33

### ASSOCIATION OF OVERSEAS CHINESE AGRICULTURAL, BIOLOGICAL, AND FOOD ENGINEERS (AOCABFE) BUSINESS MEETING AND BANQUET

**TUESDAY, JULY 1 6:00PM-10:30PM**

**Location: Waterplace II & III-Westin**

AOCABFE is a professional association with the primary goal of promoting and facilitating research and educational exchanges with China in areas of agricultural, biological and food engineering. Conference attendees with international interests are invited to attend the AOCABFE business meeting where the AOCABFE activities in 2007-2008 will be reviewed and plans of action for 2008-2009 will be discussed. There will be a dinner banquet right after the business meeting from 7:30pm to 10:30pm.

**COST: \$50.00** for regular members;

**\$15.00** for students and members from China

## WEDNESDAY, JULY 2

Session 322

### ABET

**WEDNESDAY, JULY 2, 2008**

**Location: Kent Room-Westin**

**8:00AM-9:00AM** ABET Evaluator Information

**9:00AM-10:00AM** Agricultural and Biological Engineering Accreditation Criteria for NEW PEVs

**10:00AM-12:00PM** ABET Evaluator Refresher Training

**2:30PM-3:30PM** ABET Mentor Expectations

# 2009 ASABE Annual International Meeting

June 28 - July 1, 2009  
Grand Sierra Resort  
Reno, Nevada

E #39

### AWARDS RECOGNITION LUNCHEON

**WEDNESDAY, JULY 2**

**12:30PM-2:00PM**

**Location: Ballroom-RICC**

Plan to attend the most important recognition event of the year. The installation of ASABE's 2008 President James Dooley will immediately follow the awards presentation.

Those being recognized at this luncheon will be:

Preprofessional Awards

- ASABE<sup>100</sup> Multi-Media High School Competition
- Gunlogson Student Environmental Design – Open & Fountain Wars
- Graduate Student Research Award
- AGCO National Student Design
- K.K. Barnes Student Paper
- Robotics Competition
- 1/4 Scale Tractor Design

Young Engineering Awards

- Robert Stewart Engineering-Humanities Award
- Gale A. Holloway Professional Development Award

Engineering Achievement Awards

- Young Researcher Award
- Young Extension Worker Award
- Young Educator Award
- Young Designer Award
- Massey Ferguson Educational Medal Award

Professional & Technical / Non-Divisional Awards

- Engineering Concept of the Year Award
- Evelyn E. Rosentreter Standards Award
- PEI Professional Engineering Award
- Kishida International Award
- John Deere Gold Medal Award

Technical / Divisional Awards

- Henry Giese Structures and Environment Award
- Hancor Soil and Water Engineering Award
- FPSA Foundation – FPEI “Emerging” Food Engineering Award
- G.B. Gunlogson Countryside Engineering Award
- Mayfield Cotton Engineering Award
- NAMIC Engineering Safety Award
- Award for the Advancement of Surface Irrigation
- Heermann Sprinkler Irrigation Award
- Cyrus Hall McCormick – Jerome Increase Case Gold Medal Award

**NOTE: You must indicate on your registration form that you plan to attend the luncheon to receive a ticket.**

**COST:** Included with full meeting registration and spouse/guest registration

Additional tickets: **\$40.00**