

2015 PENNSYLVANIA AGRONOMIC EDUCATION CONFERENCE



JANUARY 22-23, 2015
PENN STATER CONFERENCE CENTER
STATE COLLEGE, PA

Hosted by:
The Pennsylvania
Agronomic
Education Society



what you can expect

The Pennsylvania Agronomic Education Conference is a winter tradition for Pennsylvania's agronomy industry. This two-day educational event provides technical information for all aspects of crop production and allows industry, academia and state agency representatives to network and discuss the newest technologies and systems you can use when advising your Pennsylvania crop producer clientele.

In addition to the conference sessions, the annual business meeting of the Pennsylvania Agronomic Education Society will take place on Wednesday, January 15 during lunch. At this time the 2015 PAES Board will be elected and the Member of the Year announced.

cost

Full Conference registration includes all meeting materials, group lunch, breaks and Tuesday evening hors d'oeuvres reception. Registration fee also includes a one-year membership in the Pennsylvania Agronomic Education Society, a \$25 value.

Two Day Early Bird Registration (On/Before 12-31-2014) **\$210**

Two Day Registration (After 12-31-2014 and Walk-Ins)..... **\$230**

One Day Registration..... **\$140**

Online registration (payable with credit card) is available at <http://www.cvent.com/d/2rqnn2/1Q>.

For those who cannot participate in the conference, but would like to maintain membership in the Society, please use the **Membership only** section of the registration form to submit your dues. No other dues notification or reminder will be sent for this purpose.

PAES Membership Dues Only **\$25**

lodging

Our home for the Conference will be the Penn Stater Conference Center Hotel, located at 215 Innovation Blvd. near the Route 322 bypass. Attendees are responsible for making their own lodging arrangements by calling the hotel at (800) 233-7505. Room rates of \$93 plus tax per night/single occupancy apply when using Reservation Identification Number **PAEA15A** or referring to the conference name. *Room availability and rates cannot be guaranteed after **December 22, 2014***. Room cancellations must be made at least 72 hours prior to the arrival date to avoid a possible fee.

certification program credits

Continuing education credits for the following Pennsylvania certification programs and licenses will be requested and available where appropriate and approved:

- **Certified Crop Advisers**
- **Pennsylvania Pesticide Program**
- **Pennsylvania Nutrient Management Program**

Upon approval, credits will be listed on the appropriate certification program website.

A full listing of credits will also be included in the daily agenda distributed at the Conference.

questions?

Contact Amy Bradford at 717-651-5920 or abradford@pennag.com. This information may be found online at www.agsci.psu.edu/paes/conference.

certified crop advisor app

The CCA program is now using QR Codes as an alternative to sign-in sheets. Smartphone users should download the "Certified Crop Adviser" App by scanning the codes below or visiting iTunes (iPhone/iPad) and Play Store (Android) prior to arriving at the conference.

Please note you will need a QR Code Reader installed on your phone or tablet/IPAD prior to being able to access the App.

Contact Amy Bradford (abradford@pennag.com or 717-651-5920) for assistance.



iPhone



Android

agenda - thursday, january 22, 2015

8 am	<p align="center">Registration and Visit Exhibits (Outside President's Hall)</p>
9:30 – 11:30 am	<p align="center">Welcome and General Session <i>Moderator – Dave White, Conference Chair</i> (President's Hall 3&4)</p> <p>“The Year in Review from an Agriculture Economics Perspective” <i>Lou Moore, Penn State University - Retired</i> Lou joins us to share his annual Ag Econ insight on current crop commodity economic trends and perspective of what the coming year may bring. 0.5 CM CCA CEU</p> <p>“Palmer Amaranth and Waterhemp: Their Nature Requires More Than Just Loading up Herbicides in Your Management Plan” <i>Bryan Young, Purdue University</i> Palmer amaranth and waterhemp are two of the most challenging weed species to manage in agronomic crops, with the problem compounded by the evolution of glyphosate-resistant biotypes in both species. The extended period of germination, rapid growth and development, and multi-faceted methods for seed dispersal find vulnerable gaps in our management efforts that allow these species to persist. A more complete understanding of the biology of these species can improve how we develop effective management systems. 1.0 PM CCA CEU; PA Pesticide Recertification Categories PC, 01, 03, 10, 18, 23, 25 (1 Credit)</p> <p>“Fertilizer Outlook, Drivers and Uncertainties” <i>Glen Buckley, NPK Fertilizer Advisory Service</i> The presentation will focus on the factors driving the world and U.S. fertilizer markets and what the implications for both short-term and long-term pricing and fertilizer availability. In addition, the presentation will cover the current structure of the domestic fertilizer industry along with new capacity developments and the overall competitiveness of the industry. 1.0 NM CCA CEU</p>
11:30 am – 12:20 pm	<p align="center">Group Lunch (Included in Registration) (President's Hall 1&2)</p> <p align="center">Dean Richard Roush, Penn State College of Agricultural Sciences will provide a brief College Update</p>
12:30 pm	<p align="center">General Session (President's Hall 3&4)</p> <p>“Unmanned Arial Vehicles – Are We Ready?” <i>Tim Norris, Ag Info Tech</i> Learn about Ag Info Tech's real world experience using UAV for crop scouting including some of the obstacles in the way and potential of this technology. 1.0 CM CCA CEU</p>
1:30 pm	<p align="center">Visit Exhibits (Outside President's Hall)</p>

thursday, january 22 (cont.)

<p>2 – 2:50 pm</p>	<p>Breakout Sessions – Group One</p>	
<p>Breakout A – Room 206 “Why Proper Use of Herbicide Adjuvants Is Evolving and More Critical Than Ever” <i>Bryan Young, Purdue University</i> The widespread use of glyphosate has somewhat simplified foliar herbicide applications since the fully loaded glyphosate products alone provided unsurpassed levels of weed control. However, weed species shifts and the presence of glyphosate-resistant weed biotypes has required alternative herbicides to be re-introduced to combat these problematic weeds. Since the primary herbicide being used for our key weeds is no longer glyphosate, the adjuvant systems, including application methods to reduce spray drift, will continue to evolve to favor these alternative herbicides which must be optimized to achieve acceptable levels of weed control. 1.0 PM CCA CEU; PA Pesticide Recertification (1 CORE Credit)</p>	<p>Breakout B – Room 207 “Turning Data into Decisions – Ag Info Tech’s Approach” <i>Tim Norris, Ag Info Tech</i> Learn how Ag Info Tech is turning Data into Decisions. 1.0 CM CCA CEU</p>	<p>Breakout C – Room 208 “Interseeding Cover Crops: 2014 Research and Innovations” <i>Greg Roth and Bill Curran, Penn State University</i> In this presentation we will discuss some of the results of extensive field research and demonstration with the cover crop interseeder conducted in 2014. This will include yield impacts, N contributions of cover crops, herbicide issues and soil impacts. We will also review some of the innovations in the interseeding equipment technology that occurred during 2014 and some of the plans for interseeding research and demonstration in 2015. 1.0 SW CCA CEU; PA Nutrient Management (1 CEC)</p>
<p>3 – 3:50 pm</p>	<p>Breakout Sessions – Group Two</p>	
<p>Breakout A – Room 206 REPEATED SESSION “Why Proper Use of Herbicide Adjuvants Is Evolving and More Critical Than Ever” <i>Bryan Young, Purdue University</i> 1.0 PM CCA CEU; PA Pesticide Recertification (1 CORE Credit)</p>	<p>Breakout B – Room 207 “Using Crop Modeling to Manage Crop Nutrients” <i>Tom Bruulsema, IPNI</i> Weather affects the supply of nutrients from the soil, the processes that drive nutrient loss from the soil, and the crop growth that generates nutrient demand. New options for applying models of the soil-crop system to address these complex processes are currently being offered. How can you choose and apply the right one? 1.0 NM CCA CEU; PA Nutrient Management (1 CEC)</p>	<p>Breakout C – Room 208 “Cover Crops: A Farmer’s Perspective On What’s Working” <i>Charlie White, Penn State Extension and Gordon England, Penn England LLC</i> Farmers experienced in using cover crops will discuss the different ways that they have used cover crops over the course of their farming career, as well as what they see as the future for cover crop use on farms throughout Pennsylvania. The farmers will discuss how they fit cover crops into grain and forage crop rotations, how they select cover crop species, and how cover crops help them achieve various goals on the farm, such as recycling nutrients, improving soil health, and doubling as harvestable crops. 1.0 SW CCA CEU; PA Nutrient Management (1 CEC)</p>

thursday, january 22 (cont.)

<p>4 – 5 pm</p>	<p align="center">General Session <i>(President's Hall 3&4)</i></p> <p>“Top Ten Crop Issues: Audience Participation Required!” <i>Hosted by: Dwight Lingenfelter, Penn State University</i> This interactive session will highlight many important crop and pest management issues from the past season and provide some insight on certain topics that could impact the upcoming growing season. Certified Crop Adviser – 0.5 PM CCA CEU and 0.5 CM CCA CEU; PA Pesticide Recertification Categories PC, 01, 03, 18 (2 Credits)</p>
<p>5 – 6:30 pm</p>	<p align="center">Hospitality Hour <i>(Senate Lounge)</i></p> <p>Enjoy a relaxing time visiting with friends and colleagues.</p>
<p>7 pm</p>	<p align="center">Student/Industry Workshop <i>(ASI Building)</i></p>

agenda - friday, january 23, 2014

<p>7:30 – 9:30 am</p>	<p align="center">General Session <i>(President's Hall 1&2)</i></p> <p align="center">Moderator –John Rowehl, PAES President</p> <p>“2014 Weather Recap and What’s In Store for 2015” <i>Paul Knight, Penn State University</i> Paul will join us again with his always popular weather review and outlook for the year ahead. 0.5 CM CCA CEU</p> <p>“What’s Right 4R Weather?” <i>Tom Bruulsema, IPNI</i> Changes in weather from one year to another change crop response to applied nutrients. How much profit could you gain by taking weather into account in your 4R Nutrient Stewardship program? 1.0 NM CCA CEU</p> <p>“PA 4Rs Alliance Update” <i>Brooke Rosenbaum, PA 4R Alliance Coordinator</i> The PA 4R Alliance has been formed and is working to promote nutrient stewardship using the Right Source, Right Rate, Right Time, Right Place mission. Brooke will provide an update on the Alliance’s local programs and initiatives. 0.5 NM CCA CEU</p>	
<p>9:45 – 10:35 am</p>	<p align="center">Breakout Sessions – Group One</p>	
<p>Breakout A – Room 206 REPEATED SESSION “Using Crop Modeling to Manage Crop Nutrients” <i>Tom Bruulsema, IPNI</i> Weather affects the supply of nutrients from the soil, the processes that drive nutrient loss from the soil, and the crop growth that generates nutrient demand. New options for applying models of the soil-crop system to address these complex processes are currently being offered. How can you choose and apply the right one? 1.0 NM CCA CEU; PA Nutrient Management (1 CEC)</p>	<p>Breakout B – Room 207 “Precision Agriculture: The Technological Forefront in Data Collection & Management” <i>Patrick Clark, Helena Chemical Company</i> This session will provide an introduction into precision guided soil sampling techniques and the use of soil electrical conductivity mapping for addressing field variability through site-specific management versus conventional field management. The presentation will include practical applications of the technology in multiple industry sectors; it will encompass the current industry trends and what the future holds for precision agriculture in Pennsylvania. 1.0 SW CCA Credit; PA Nutrient Management (1 CEC)</p>	<p>Breakout C – Room 208 “Forages, They Get No Respect” <i>Marvin Hall, Penn State University</i> Forages have traditionally been the ignored crop in Pennsylvania Farming Systems. That needs to change if we plan to maintain a sustainable agricultural system. The economic and environmental importance of forages to Pennsylvania will be presented and suggestions on how to maximize forage profitability will be discussed. 1.0 CM CCA CEU</p>

friday, january 23 (cont.)

10:45 – 11:35 am	Breakout Sessions – Group Two	
<p>Breakout A – Room 206 “At-Planting Fertilizer Management” <i>Doug Beegle, Penn State University</i> Fertilizer management at planting time traditionally meant applying a couple hundred pounds of a dry complete fertilizer placed 2”x 2” from the seed. Today at planting fertilizer management includes traditional starters and also liquid starters; low rate pop-up starters; N only starters; higher rate banding or injecting N at planting and starters with micro and secondary nutrients and other additives. Management considerations for at-plant fertilizer programs will be discussed. 1.0 NM CCA CEU; PA Nutrient Management (1 CEC)</p>	<p>Breakout B – Room 207 <u>REPEATED SESSION</u> “Precision Agriculture: The Technological Forefront in Data Collection & Management” <i>Patrick Clark, Helena Chemical Company</i> 1.0 SW CCA Credit; PA Nutrient Management (1 CEC)</p>	<p>Breakout C – Room 208 <u>REPEATED SESSION</u> “Forages, They Get No Respect” <i>Marvin Hall, Penn State University</i> 1.0 CM CCA CEU</p>
<p>11:45 am</p>	<p>Lunch & Annual PAES Business Meeting (Included in Registration) (President’s Hall 1&2) Emcee: John Rowehl, PAES President</p> <p>After lunch we will conduct the 2015 Society Annual Business Meeting, election of the 2015 PAES Board, 2015 Member of the Year Award presentation and kickoff the PA Agronomic Education Society Trustee Scholarship fundraising campaign!</p>	
<p>1 – 2 pm</p>	<p>General Session (President’s Hall 3&4) Moderator – Larry Burkhart, PAES President-Elect</p> <p>“Ag Technology” <i>Nathan Williams, John Deere Co.</i> John Deere is an industry leader in technology. John Deere will discuss areas of data collection, data management and precision farming. As well as a view to where the future of Technology in the Ag Industry is leading us. 1.0 CM CCA CEU; PA Pesticide Recertification Categories PC, 01, 03, 18, 25 (2 Credits)</p> <p>“Closing Comments/Adjourn” – Larry Burkhart, PAES President – Elect</p>	

Save the Dates
PENNSYLVANIA AGRONOMIC EDUCATION CONFERENCE
January 21-22, 2016
January 19-20, 2017
 PENN STATER HOTEL & CONFERENCE CENTER - STATE COLLEGE, PA



Pennsylvania Agronomic Education Conference

January 22-23, 2015

Penn Stater Conference Center - State College, PA

Registration Form

For reduced conference fee register before December 31, 2014!

Two Ways to Register:

- Online (with Credit Card)** – Simply log onto <http://www.cvent.com/d/2rqnn2/1Q> to enter your contact information, registration preferences and credit card information for immediate registration, credit card processing and confirmation/receipt of payment.
- Via Fax/Email/Mail** – Those requesting an invoice or paying by check may complete the information below and return to:

Amy Bradford | PAES
2215 Forest Hills Drive, Suite 39 | Harrisburg PA 17112
P: 717-651-5920 | F: 717-651-5926 | E: abradsford@pennag.com

CONTACT INFORMATION			
Information will be used for PAES membership purposes.			
Name:			I am a CCA: <input type="checkbox"/> Yes <input type="checkbox"/> No
Company/Affiliation:			
Address:			
City:	State:	Zip Code:	E-mail:
Phone:	Cell:	Fax:	
I prefer to receive information via: <input type="checkbox"/> Mail <input type="checkbox"/> Fax <input type="checkbox"/> Email			

REGISTRATION			
Fee includes all conference materials, breaks, lunches and one year Society membership dues (\$25 value) for one person.			
Full Conference Registration	<input type="checkbox"/> Before December 31 \$210	<input type="checkbox"/> After December 31 or Walk-In \$230	Total: \$ _____
One Day Registration	<input type="checkbox"/> \$140		Total: \$ _____
	I Will Attend: <input type="checkbox"/> Thursday, Jan. 22 <input type="checkbox"/> Friday, Jan. 23		
Extra Luncheon Tickets	Thursday, January 22 # _____ x \$25	Friday, January 23 # _____ x \$25	Total: \$ _____
List Special Dietary Needs: _____			

ANNUAL PAES MEMBERSHIP ONLY	
For those interested in PAES membership but unable to attend conference. <input type="checkbox"/> \$25	Total: \$ _____
Grand Total Due	\$ _____

PAYMENT OPTIONS	
<input type="checkbox"/> Check Enclosed (Payable to PAES)	<input type="checkbox"/> Please Invoice Me