



**2023**

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**Pennsylvania Agronomic  
Education Conference**



# DAILY AGENDA

Thursday, January 19, 2023



**8:30 AM**                    **Registration and Visit Exhibits** (*Wyndham Garden Prefunction*)

**9:15 AM**                    **Welcome and Introduction** (*Garden Ballroom*)

**9:30 - 10:30 AM**        **General Sessions** (*30 minutes each*) (*Garden Ballroom*)

**2022 Weather Recap and What's in Store for 2023**

***Kyle Imhoff, Penn State University***

A brief review of recent weather, the seasonal forecast for Spring and Summer 2023, and an overview of some weather data products.

**0.5 CCA CEU - CM**

**An Overview of Right to Farm Laws**

***EmmaRose Strohl, Barley Snyder LLP***

This session will provide a primer on Pennsylvania's "Right to Farm" law and its application to "normal agricultural operations." It will provide real-world examples of how Right to Farm Laws protect farmers (or not), and give basic practical suggestions for good neighbor relations as non-agricultural uses continue to encroach on farmland.

**0.5 CCA CEU - PD**

**10:30 - 10:40 AM**        **Break**

**10:40 - 12:20 PM**        **General Sessions** (*50 minutes each*) (*Garden Ballroom*)

**Precision Soil Sampling**

***Dr. Josh McGrath, OCP North America***

Precision phosphorus, potassium, and lime management have been commonplace. Generally, we develop prescriptions from some sort of precision soil sampling strategy, often grid sampling. However, recent (and not so recent) research indicates that we should look for a different approach.

**1.0 CCA CEU - SW**

**High-Yielding Soybeans- Getting to the Next Level**

***Chris Weaver, Agrauxine & Hickory Hollow Farms***

This presentation will focus on "thinking outside of the box" regarding soil health, bio-nutrition, and bio-fungicides.

**1.0 CCA CEU - CM**

**12:30 - 2:00 PM**        **Member of the Year Award Presentation** (*Mountain View Country Club Ballroom*)

**Lunch** (*Mountain View Country Club Ballroom*)

**Visit Exhibits** (*Wyndham Garden Prefunction*)

*Do you have an interest in serving PAES? We are looking for board members as well as conference planning assistance. To learn more, stop by the conference registration table in the lobby or speak to a PAES Board Member.*

## 2:15 - 3:15 PM Breakout Sessions

**Session A** (*Garden Ballroom A*)  
**Integrating Herbicide- and Cover Crop-based Weed Control Tactics in No-Till Crop Production Systems**  
*Dr. John Wallace, Penn State University*

Integrating cover crops in no-till systems presents both opportunities and challenges for herbicide-based weed control. This talk will review cover crop- and herbicide-management considerations for corn and soybean production systems, with a focus on management adjustments that can improve weed control performance.

**1.0 CCA CEU – SW**

**Session B** (*Garden Ballroom B*)  
**Soil Acidity, Liming, and Alternative Products**  
*Dr. Josh McGrath, OCP North America*

To maintain fertile and productive soils we must manage soil pH. Due to the dynamics of soil pH, it is important to have a long-term strategy. There are several liming products available, each with pros and cons, that can fit into your soil pH strategy. However, there are also a few dubious products marketed with spurious claims.

**1.0 CCA CEU – NM PA NM:1 NM**

**Session C** (*Garden Ballroom C*)  
**Agricultural Riparian Buffers: Planning and Managing Riparian Buffers to Fit and Flourish within Ag Systems**

*Sarah Xenophon, TeamAg, Inc. Lamonte Garber, Stroud Water Research Center*

Riparian buffers are important tools for conservation across our rural landscapes. This presentation hopes to explain the vital roles riparian buffers play on our rural landscapes, how to design and plan for buffers to not only fit within Ag operations, but to flourish.

**1.0 CCA CEU – SW**

## 3:30 - 4:30 PM Breakout Sessions

**Session A** (*Garden Ballroom A*)  
**Field Crops Diseases in 2022: Year in Review**  
*Dr. Paul Esker, Penn State University*

This presentation will focus on the disease issues that drove the 2022 growing season. With variable weather conditions, we still saw higher than normal levels of some of our favorite diseases, like white mold. Tar spot of corn also increased in its distribution across PA, and we will discuss its implications looking ahead in 2023. Lastly, we will discuss a large regional project on data-driven technologies for soybean production and the opportunities to participate.

**1.0 CCA CEU – PM  
PA Pesticide:2 PC/01/18**

**Session B** (*Garden Ballroom B*)  
**Catch my Drift? Nuances of Right to Farm Laws, with a Focus on Drift**

*EmmaRose Strohl, Barley Snyder LLP*  
This session will hone in on recent caselaw involving pesticide drift, and explore why Right to Farm laws may or may not protect farmer. It will explore implications of Right to Farm Laws and how they interplay with laws regulating pesticide application.  
**Pennsylvania's Agricultural Mediation Program**

*Jacqueline K. Schweichler, Penn State Center for Agricultural and Shale Law*  
This session will cover a brief history of the Agricultural Mediation Program and how the program can be used to mediate disputes to save agricultural producers time and unnecessary expense from lawsuits or other legal issues.

**1.0 CCA CEU - CM**

**Session C** (*Garden Ballroom C*)  
**USDA-NRCS Farm Bill Programs**

*Financial Assistance Available to Producers/Landowners  
Ryan Koch, USDA*

This presentation will cover the various technical and financial assistance available to producers and landowners through Farm Bill Programs to target addressing resource concerns on the operation/property. Common conservation practices utilized and funded by NRCS include: No-till; cover crops; pollinator habitat, nutrient management, prescribed grazing, grassed waterways, livestock watering systems, heavy use area protection, manure storages and many more.

**1.0 CCA CEU – SW**

**5:00 - 6:30 PM Hospitality Hour** (*Mountain View Country Club Ballroom*)

**7:00 - 9:00 PM PSU Student/Industry Workshop** (*118 ASI Building; on PSU Campus*)

Friday, January 20, 2023

**7:00 AM**      **Registration and Visit Exhibits** (*Wyndham Garden Prefunction*)

**7:30 – 8:30 AM**      **General Sessions** (*30 minutes each*) (*Garden Ballroom*)

**Fertilizer Markets and Supply Chain Challenges**

***Justin Louchheim, The Fertilizer Institute***

The past several years have thrown new curve balls our way. We will discuss what has transpired, lessons learned and speculate on what is yet to come.

**0.5 CCA CEU – CM**

**Getting the Most Bang From Your Fertilizer Dollar**

***Dr. Carrie Laboski, USDA-ARS***

Fertilizer is expensive! Are you getting the best ROI on your fertilizer investment? This presentation will discuss how to evaluate your fertilizer investment strategy relative to the 4R principles, nutrient interactions, and on-farm nutrient sources.

**0.5 CCA CEU – NM   PA NM: 1 NM**

**8:30 – 10:10 AM**      **General Sessions** (*50 minutes each*) (*Garden Ballroom*)

**Does the Term CRAZY Adequately Describe the Grain Markets?**

***Richard Cole, Snavely's Flour Mill Purchasing Manager***

The past year has had wild swings in all of the grain markets. We will look at current and possible future concerns in the local, national and world markets. We will look at history to see if we can see any correlation to help us in future marketing decisions.

**1.0 CCA CEU – CM**

**Using IPM to Manage Slugs in No-Till Cropping Systems**

***Dr. John Tooker, Penn State University***

Slugs can be challenging to control in no-till cropping systems because there are few commercially available management options. We will discuss research conducted at Penn State that has demonstrated that cover crops and natural enemies can provide effective control of slugs, but for these factors to be effective they have to be incorporated with integrated pest management (IPM).

**1.0 CCA CEU – PM   PA Pesticide: 2 PC/01/18**

**10:30 - 11:30 AM**      **Breakout Sessions**

**Session A** (*Garden Ballroom A*)

**A Survey of Mental Health in the Animal Ag Industry in Pennsylvania**

***Dr. Ginger Fenton, Penn State Extension***

In 2022, several livestock and dairy industry groups collaborated to conduct a survey of the mental wellness of producers and ag professionals. The results of the survey indicate that mental health

**Session B** (*Garden Ballroom B*)

**The Phosphorus Index: An Overview and Update**

***Dr. Jennifer Weld, Penn State University***

This session will provide an overview of phosphorus index concepts and an update about new directions and considerations for phosphorus index development.

**1.0 CCA CEU – NM   PA NM: 1 NM**

**Session C** (*Garden Ballroom C*)

**Nitrogen Management Practices to Improve Profitability and N Use Efficiency in Winter Wheat**

***Dr. Carrie Laboski, USDA-ARS***

This presentation will highlight how nitrogen (N) application rate and timing are critical to improving N use efficiency and profitability in winter wheat production. Research in Wisconsin has demonstrated that profitable

is an important topic to the respondents. While stress spans the ag community, farmers expressed greater confidence than ag professionals in responding to those experiencing stress.

**1.0 CCA CEU – PD**

winter wheat production can be compatible with minimizing potential N loss to the environment.

**1.0 CCA CEU – NM PA NM 1 NM (repeated at 11:45 a.m.)**

## **11:45 - 12:45 PM Breakout Sessions**

**Session A** (*Garden Ballroom A*)  
**Forage Sorghum Management in Double Crop Rotations with Winter Cereals in the Northeast U.S.**

**Dr. Sarah Lyons, NC State University**

Double cropping with winter cereals during the corn silage years can provide many benefits, including preventing soil erosion and nutrient loss by keeping the ground covered over the winter months. One challenge with double cropping with corn silage is the potential overlap of harvesting the winter cereals with planting corn silage. Forage sorghum is a good alternative to corn silage as it has a later planting date and potentially shorter growing season. Research was conducted to determine N needs of double cropped forage sorghum and winter cereals, as well as planting and harvest management for both crops to determine best rotation management practices.

**1.0 CCA CEU - CM**

**Session B** (*Garden Ballroom B*)  
**Weeds And Weed Management in A Warmer and Wetter World**  
**Dr. Carolyn Lowry, Penn State University**

We will be discussing recent research in the Weed Ecology lab examining how a warmer and more variable climate influence weeds and the way we manage them, including:  
1) how will increasing temperatures affect weed competition and seedbank persistence of common weeds; and 2) how do extreme rainfall events influence residual herbicide efficacy.

**1.0 CCA CEU – SW/PM**

**Session C** (*Garden Ballroom C*)  
**Nitrogen Management Practices to Improve Profitability and N Use Efficiency in Winter Wheat**  
**Dr. Carrie Laboski, USDA-ARS**

This presentation will highlight how nitrogen (N) application rate and timing are critical to improving N use efficiency and profitability in winter wheat production. Research in Wisconsin has demonstrated that profitable winter wheat production can be compatible with minimizing potential N loss to the environment.

**1.0 CCA CEU – NM PA NM 1 NM**

**1:00 - 2:00 PM Lunch** (*Mountain View Country Club Ballroom*)

**Annual Business Meeting** (*Mountain View Country Club Ballroom*)

**Closing Comments and Adjournment** (*Mountain View Country Club Ballroom*)

*NOTE: 2023 PAES Conference Evaluation will be emailed to all participants*

*Do you have an interest in serving PAES? We are looking for board members as well as conference planning assistance. To learn more, stop by the conference registration table in the lobby or speak to a PAES Board Member.*

## Thursday – January 19, 2023

**Credit Legend:** **Certified Crop Adviser (CCA)**    **PA Act 38 Nutrient Management (PA NM)**    **(PA Pesticide - Categories PC, 01, 18 unless otherwise noted)**

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8:30 AM	Registration and Visit Exhibits		
9:15 AM	Welcome and Introduction		
9:30 to 12:20 PM	<p><b>GENERAL SESSION (30 minutes each)</b></p> <p><b>2022 Weather Recap and What's in Store for 2023-</b> <i>Kyle Imhoff, Penn State University</i>    <b>0.5 CCA CEU-CM</b></p> <p><b>An Overview of Right to Farm Laws –</b> <i>EmmaRose Strohl, Barley Snyder LLP</i>    <b>0.5 CCA CEU – PD</b></p> <p><b>GENERAL SESSION (50 minutes each)</b></p> <p><b>Precision Soil Sampling –</b> <i>Dr. Josh McGrath, OCP North America</i>    <b>1.0 CCA CEU – SW</b></p> <p><b>High-Yielding Soybeans –</b> <i>Chris Weaver, Agrauxine &amp; Hickory Hollow Farms</i>    <b>1.0 CCA CEU – CM</b></p>		
12:30 to 2:00 PM	<p><b>Member of the Year Award Presentation and Luncheon</b> (<i>Mountain View Country Club Ballroom</i>)</p> <p>Visit Exhibits</p>		
2:15 to 3:15 PM	<p><b>Integrating Herbicide- and Cover Crop-based Weed Control Tactics in No-Till Crop Production Systems</b> <i>Dr. John Wallace, Penn State University</i></p> <p><b>1.0 CCA CEU – PM/SW 2 PA Pesticide</b></p>	<p><b>Soil Acidity, Liming, and Alternative Products</b> <i>Dr. Josh McGrath, OCP North America</i></p> <p><b>1.0 CCA CEU – NM 1 PA NM</b></p>	<p><b>Agricultural Riparian Buffers: Planning and Managing Riparian Buffers to Fit and Flourish within Ag Systems</b> <i>Sarah Xenophon, TeamAg, Inc.</i> <i>Lamonte Garber, Stroud Water Research Center</i></p> <p><b>1.0 CCA CEU – SW</b></p>
3:30 to 4:30 PM	<p><b>Field Crops Diseases in 2022: Year in Review</b> <i>Dr. Paul Esker, Penn State University</i></p> <p><b>1.0 CCA CEU – PM 2 PA Pesticide</b></p>	<p><b>Catch my Drift? Nuances of Right to Farm Laws, with a Focus on Drift &amp; PA's Agricultural Mediation Program</b> <i>EmmaRose Strohl, Barley Snyder LLP and Jacqueline K. Schweichler, Penn State Center for Agricultural and Shale Law</i></p> <p><b>1.0 CCA CEU – CM</b></p>	<p><b>USDA-NRCS Farm Bill Programs -Financial Assistance Available to Producers/Landowner</b> <i>Ryan Koch, NRCS</i></p> <p><b>1.0 CCA CEU – SW</b></p>
5:00 to 6:30 PM	<p><b>Hospitality Hour</b> (<i>Mountain View Country Club Ballroom</i>)</p>		
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1:00 to 2:00 PM	<p><b>Lunch</b></p> <p><b>Annual Business Meeting and PAES Board Election</b></p> <p><b>Closing Comments and Adjournment</b></p> <p><i>(Mountain View Country Club Ballroom)</i></p>		



# Past Members of the Year



1968	Murry Mclunkin	1983	Ernest Bergman	2003	George Williams
1968	Frances Raymaley	1984	Robert Keith	2004	Joel Myers
1969	Howard Sprague	1985	James Starling	2005	Fritz McGrail
1969	George Service	1986	George Holton	2006	John Ayers
1969	Dave Smoyer	1987	Lynn Hoffman	2007	Don Hartzler
1970	A.C. Richer	1988	James "Bud" Webb	2008	Paul Rebarchak
1970	Robert Pollock	1989	Cyril Smith	2008	Carroll Kirby
1970	Russell Larson	1990	Herbert Cole	2009	Bill Clouser
1971	Glenn Elwood	1991	Glenn Yoder	2010	Harold Brecht
1972	Robert Thomas	1992	Ray Shipp	2011	William Curran
1973	Skip Keis	1993	John Korman	2012	Jeff Schneck
1974	Clarence Reichard	1993	William Brubaker	2013	Greg Roth
1975	Robert Fletcher	1994	Elwood Hatley	2014	Paul Miller
1976	John C. Hoffman	1995	Elwood Funk	2015	Dwight Lingenfelter
1976	Russell Larson	1996	John Yocum	2016	Duane Hobbs
1977	Wayne Hinish	1997	Donald Young	2017	Paul Craig
1978	William Gerhart	1998	Doug Beegle	2018	Dean Collamer
1979	Al Hunter	1999	John Flanagan	2019	John Rowehl
1980	Harold Jones	2000	Larry Jordan	2020	David R. White
1981	Frank Bamer	2001	James Brown	2021	Craig Altemose
1982	William Angstadt, Sr.	2002	Scott Harkcom	2022	Ken Glick

# Wyndham Garden Hotel at Mountain View Country Club, Boalsburg, PA





# Thank You

## to our Conference Sponsors!

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*PA 4R Nutrient Stewardship Alliance*  
*Timac Agro*

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### *BRONZE*

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# Meet the 2022 PAES Board

Lyle	Stephens	Growmark FS	President
Andrew	Lefever	PSU, Graduate Student	Vice President
Nathan	Hykes	Growmark FS	Immediate Past President & Conf. Chair
Jennifer	Reed-Harry	PennAg	Secretary/Treasurer (Non-Voting)
<b>Directors:</b>			
Kyle	Love	Helena	Director (2020-2022)
Dwane	Miller	Penn State Extension	Director (2020-2022) First individual term
John	Spargo	Penn State University	Director (2020-2022)
Lyle	Stephens	Growmark FS	Director (2020-2022)
Craig	Austin	Syngenta	Director (2021-2023)
	<b>Vacant</b>		Director (2021-2023)
	<b>Vacant</b>		Director (2021-2023)
	<b>Vacant</b>		Director (2021-2023)
Mike	Kuhns	Chemgro	Director (2022-2024)
Andrew	Lefever	PSU, Graduate Student	Director (2022-2024)
Courtney	Walter	Growmark FS	Director (2022-2024)
Patrick	Ward	Koch Agronomic Services	Director (2022-2024)
Dwight	Lingenfelter	Penn State University	Student Industry Chair (No Term Limit)
Hanna	Wells	Penn State University	Social Media Subcommittee Chair (No Term Limit)
<b>Liaisons:</b>			
Tony	Paolino	New Enterprise Stone & Lime	Liaison (Non-Voting): PA Aggregates & Concrete Assn.
Morgan	Sheffield	PA Department of Agriculture	Liaison (Non-Voting): PDA
Mark	Goodson	USDA-NRCS	Liaison (Non-Voting): USDA-NRCS

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