

2017 Keystone Crops and Soils Conference

October 24 & 25 | Harrisburg-Hershey Holiday Inn
Grantville, PA

Date
October 24-25, 2017

Time
8 a.m. - 5 p.m.

Location
Harrisburg/Hershey Holiday Inn
604 Station Road, Grantville, PA 17028

Session & Registration Information

All credits as listed are PENDING and may change. Approval for Certified Crop Advisers CEUs and CECs for the Pennsylvania Nutrient Management and Pesticide programs have been submitted.

Day One Agenda: Tuesday, October 24, 2017

8 a.m.
8:30 a.m.
8:45 - 9:45 a.m.

Registration
Welcome
General Session

Weathering Water Extremes in the Changing Climate of the Mid-Atlantic Region

Speaker: Dr. Anthony Buda - USDA Agricultural Research Service

Climate change has emerged as a critical issue facing agriculture and water resources in the US. This presentation draws upon recent findings from the US National Climate Assessment, as well as regional and local watershed studies to highlight fluctuations in weather, seasons, and stream hydrology as a consequence of climate change in the Mid-Atlantic region. The seminar will also explore future climate change projections for the Mid-Atlantic region using daily time-series of down scaled climatic data from nine regional climate models. **1.0 CM CCA CEU**

10 - 10:50 a.m.

Breakout Sessions - Group 1

SESSION A (MAJESTIC 1)

Pennsylvania's Future Chesapeake Bay Program – What Might It Look Like?

Veronica (Nicki) Kasi, PA Department of Environmental Protection Chesapeake Bay Office

The presentation will provide an overview of where we are and where we need to be within the context of the Bay Program Partnership and the Watershed Implementation Plan that we must develop by December 2018. This plan needs to identify how Pennsylvania will meet the pollutant reduction targets assigned to us by 2025. The presentation will also go over progress made within the context of modeling results and the changes to the model, survey analyses and next steps to identify resource needs and program impacts on different communities within Pennsylvania's portion of the Chesapeake Bay watershed.

1.0 NM CCA CEU; PA NM

SESSION B (MAJESTIC 2)

NRCS and REAP Program Updates

Susan Kubo, USDA-NRCS and Joel Semke - State Conservation Commission

Susan Kubo will provide a brief overview of NRCS technical services and resources, and information about NRCS's Technical Service Provider registry and Farm Bill Programs. Joel Semke from the State Conservation Commission will share how through the REAP Program farmers, landowners, and businesses earn PA tax credits for implementing best management practices, including some farm equipment, that will enhance farm production and protect natural resources. The information shared will help you educate your customers and clients how REAP can fit into their operation.

1.0 SW CCA CEU; 1 PA NM

SESSION C (MAJESTIC 3)

2017 Weed Science Issues and Research Highlights

Bill Curran and Dwight Lingenfelter – Penn State University

In this session we will give highlights of our herbicide field trials and discuss implications of their utility. Also, we will provide some further insights on dicamba and 2,4-D drift issues in our area and nationally.

1.0 PM CCA CEU; PA Pesticide

11 - 11:50 a.m.

Breakout Sessions - Group 2

SESSION A (MAJESTIC 1)

Grain Marketing and Perdue Soybean Processing Plant Updates

Richard Cole, Perdue Agribusiness LLC

Dick will provide an update on grain availability and marketing in Pennsylvania. In addition, the ribbon has been cut for the Soybean Processing Plant in Conoy Township, Lancaster County. Dick will give a status report of the facility.

1.0 CM CCA CEU

SESSION B (MAJESTIC 2)

Nutrient Management Update, Standard Animal Weight Changes and Impact, Farm Inspection Summary

Leon Ressler, Penn State Extension and Dennis Eby, Lancaster County Conservation District

This session will cover a variety of nutrient management topics. Leon Ressler will begin with a review of the coming changes to Standard Animal Weights and their impact on small farms, who previously were not required to have plans. Next Dennis Eby will review findings of the DEP farm inspection program. Lastly the session will review the importance of manure testing and how we can work together to improve farmers understanding of their nutrient management plans.

1.0 NM CCA CEU; PA NM

SESSION C (MAJESTIC 3)

REPEATED SESSION

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1.0 PM CCA CEU; PA Pesticide

12 p.m.

LUNCH

12:45 - 1:45 p.m.

General Session - "Agronomic Updates"

BASF Corporation – Gar Thomas; Valent USA – Kevin Deehan; Verdesian – Mark Fuchs

Receive up-to-date technical information from representatives of Pennsylvania's crop production support and service industry. **1.0 PM CCA CEU; PA Pesticide**

2 - 2:50 p.m.

Breakout Sessions - Group 3

SESSION A (MAJESTIC 1)

Highlights of the Soybean On-Farm Project

Del Voight, CCA – Penn State Extension

Del will provide an update of the research being conducted as part of the 2017 On-Farm Network. The network provides real-life, on-farm production scale data to aid farmers in their ongoing crop management decision-making. Farms throughout Pennsylvania with varying field, equipment and crop conditions contribute to the project's data. The On-Farm Network research is conducted in real-world conditions on test plots planted by Pennsylvania farmers on their own farms with their own equipment to see which management practices have an appreciable impact on production.

1.0 CM CCA CEU

SESSION B (MAJESTIC 2)

2017 Slug and Insect Review

Elizabeth Bosak – Penn State Extension

Liz will provide an update on the common insect pressures encountered during the 2017 corn, soybean and wheat growing season. Management success stories and lessons learned will also be shared.

1.0 PM CCA CEU; PA Pesticide

SESSION C (MAJESTIC 3)

Take Off Technology: A Unique Tool for Enhanced Nitrogen Use Efficiency and Sustainable Production

Nick Vandervort, CCA - Verdesian Life Sciences

Take Off Technology will be showcased as a unique, patented product for both nitrogen use efficiency in crops and as a sustainability tool for responsible crop production. Highlights will include an overview of this technology's discovery, its mode of action in plants, its flexibility of application, and its important role in reducing nitrogen loss with its associated positive environmental impacts. Field trial data and field shots of performance will round out this scientifically-focused discussion.

1.0 NM CCA CEU; PA NM

3 - 3:50 p.m.

Breakout Sessions - Group 4

SESSION A (MAJESTIC 1)

Overview of Organic Crops and the Impact in Pennsylvania

Andrew Smyre, CCA - Anchor Ingredients LLC

Provide an overall perspective of the organic grain process including an understanding of how a grower becomes certified and their production requirements. The session will also share what must a CCA have an understanding of in order to better serve their organic customer/client. On the supply side, there is interest in learning about the verification process and how the needs are being met. We will discuss the effects of organic agriculture on Pennsylvania.

1.0 CM CCA CEU

SESSION B (MAJESTIC 2)

Keeping Pesticides Out of Ground Water

Andy Yench - Penn State Extension

Learn how to evaluate and reduce groundwater contamination risks when applying pesticides to Pennsylvania crops and soils. This talk will examine studies that have attempted to measure the prevalence of pesticides in groundwater, highlight factors that increase the movement of pesticides through soil, explain what to look for on pesticide labels to gauge a products water pollution potential, and discuss how to minimize this potential through proper storage, mixing and application.

1.0 SW CCA CEU; PA Pesticide

SESSION C (MAJESTIC 3)

A Regulatory and Legal Understanding of Brown-Bag Seed

Sean High – Penn State Center for Agricultural and Shale Law

Many farmers are unaware that through their seed selling and purchasing decisions they may unknowingly be opening a door to legal liability. This is especially true when seeds are sold or acquired through so-called "brown-bag" sales. To help producers avoid potential seed related legal consequences, this presentation will address and explain U.S. patent law, the Plant Variety Protection Act, Title V of the Federal Seed Act, and the Pennsylvania Seed Act.

1.0 CM CCA CEU

4 - 4:50 p.m.

General Session - Revisiting 30 Years of Weed Control – Where Have We Been and Where Are We Going?

Dr. Bill Curran - Penn State University

This session will present and discuss the evolution of weed control in Pennsylvania over the last 30 years starting in the late 1980's until the present.

1.0 PM CCA CEU; PA Pesticide



Day Two Agenda: Wednesday, October 25, 2017

- 8 a.m.**
8:45 - 9:45 a.m.
- Registration**
General Session - Agronomic Updates
Gowan USA – David Pieczarka; Monsanto – Jeff Phillips; Potash Corp – Ethan Brock
Receive up-to-date technical information from representatives of Pennsylvania’s crop production support and service industry. **1.0 PM CCA CEU; PA Pesticide**
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- 10 - 10:50 a.m.**
- General Session - Understanding the Importance of the 2017 Census of Agriculture and Ag Statistics**
King Whetstone - USDA National Agricultural Statistics Service
King will provide an update on the 2017 Census of Agriculture and why it is important for the farmers you work to participate in the process. The session will also provide an overview of how and by whom NASS data is utilized and highlight trends being seen in results of agronomic specific NASS surveys. **1.0 CM CCA CEU**
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- 11 - 11:50 a.m.**
- Breakout Sessions - Group 2**
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| <p><u>SESSION A (MAJESTIC 1)</u>
Corn Silage and Forage Variety Trials
<i>Jessica Williamson – Penn State Extension</i>
An overview of the Penn State forage and corn silage variety trials will be discussed as well as a discussion on how to use the trial reports in production scenarios.
1.0 CM CCA CEU</p> | <p><u>SESSION B (MAJESTIC 2)</u>
Tell Me What I Need to Know – A Listening Session
<i>Dr. Paul Esker – Penn State University</i>
Tell Dr. Esker what he should know to best address the needs of Pennsylvania producers to make better and more-informed disease management decisions. This is great chance to have your voice heard, so bring your questions, concerns and ideas!
1.0 PM CCA CEU; PA Pesticide</p> | <p><u>SESSION C (MAJESTIC 3)</u>
What We Learned About Hemp Production in 2017
<i>Dr. Greg Roth, Penn State University</i>
In this session, we will discuss what we learned from our hemp research in 2017. This was targeted at producing grain from hemp and evaluated planting dates, seeding rates, cultivars, and N rates.
1.0 CM CCA CEU</p> |
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- 12 p.m.**
- LUNCH**
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- 12:45 - 1:45 p.m.**
- General Session - Agronomic Updates**
Agrium Wholesale - Bob Raley; FMC – Michael Myers; Dow/DuPont – Christopher Kline/Jennifer Clark
Receive up-to-date technical information from Representatives of Pennsylvania’s crop production support and service industry. **1.0 PM CCA CEU; PA Pesticide**
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- 2 - 2:50 p.m.**
- Breakout Sessions - Group 3**
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| <p><u>SESSION A (MAJESTIC 1)</u>
Forage Research
<i>Jessica Williamson – Penn State Extension</i>
Jessica will reflect issues seen in the field during the 2017 growing season and provide an overview of her current grazing research projects. There will be an opportunity to provide ideas for additional research and extension work from your perspective as a crop advisor.
1.0 CM CCA CEU</p> | <p><u>SESSION B (MAJESTIC 2)</u>
New Fungicide Modes of Action
<i>Dr. Paul Esker – Penn State University</i>
In this talk, a description and discussion of new fungicide products and modes of action for field crops, small grains and forages will be discussed.
1.0 PM CCA CEU; PA Pesticide</p> | <p><u>SESSION C (MAJESTIC 3)</u>
Tactics to Maximize Wheat Yields and Profitability in Pennsylvania
<i>Dr. Greg Roth, Penn State University</i>
In this session, we will discuss tactics that can be used to improve wheat yields in the state. This presentation will review research on seeding rates and dates, cultivars, N management and disease management.
1.0 CM CCA CEU</p> |
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3 - 3:50 p.m.

Breakout Sessions - Group 4

SESSION A (MAJESTIC 1)

Invasive Species Update

Trilby Libhart – PA Department of Agriculture

Trilby will provide an update on the PA Controlled Plant and Noxious Weed law along with updates and information on invasive and noxious weeds affecting the state.

1.0 PM CCA CEU; PA Pesticide

SESSION B (MAJESTIC 2)

Teaching Your Customers Basic Sound

Agronomics: A CCA Panel Discussion

Moderator: Jeff Graybill CCA, Penn State Extension

Panelists: Chris Burkhart CCA, Little Britain Ag Supply; Eric Rosenbaum CCA, Rosetree Consulting, LLC and John Rowehl CCA, Penn State Extension

CCAs are agricultural professionals who have not only certified that they are knowledgeable in production Ag, but also have pledged to follow a code of ethics and professionalism. We have a responsibility to help educate our clients, so that they can make informed decisions. Join the panel discussion and learn how different members of the CCA community help educate their clientele.

1.0 CM CCA CEU

SESSION C (MAJESTIC 3)

Trends in Sulfur Demands and Updates from the Soil Fertility Extension Program

Dr. Charlie White - Penn State University

As sulfur emissions from coal power plants decline, there is a greater need to address sulfur fertility requirements for field crops in Pennsylvania. Over the last 3 years, Penn State Extension and the Ag Analytical Lab have been conducting sulfur response trials in corn throughout the state. This presentation will provide the latest data on corn yield responses and associated critical levels for soil test and tissue test sulfur levels that can be used to diagnose potential sulfur deficiencies. In addition to the ongoing sulfur work, we will take some time to explore common visions for the Penn State Extension Soil Fertility program as leadership transitions to a new Extension Specialist.

1.0 SW CCA CEU

4 - 4:50 p.m.

Breakout Sessions - Group 5

SESSION A (MAJESTIC 1)

Using Cropping Systems Models to Understand and Maximize Soybean Yields

Giovani Stefani Fae - Penn State University

This session will discuss how a process based cropping systems simulation model (Cycles) operates, and will give feedback on how it can be used to assist agronomists to make more thorough soybean management decisions to maximize yields.

1.0 CM CCA CEU

SESSION B (MAJESTIC 2)

Today's PA Farm Economy and Its Impact on Support and Service Providers

Farm Credit

Depending on the commodity they are growing or producing, farmers have varying perceptions of Pennsylvania agriculture's economic health. This session will provide insight from the agricultural finance sector about the current economy and outlook for the near future. Additionally, the session will discuss how a farmer's economic and financial health affects those providing services, inputs and support.

1.0 CM CCA CEU

SESSION C (MAJESTIC 3)

Equipment Technology Update - Where We Have Been, Where Are We Going?

Marc Yoder - Hooper, Inc.

Marc will discuss what Precision Ag looks like to a farmer today and show how the implementation of technology has dramatically changed farming as we know it. The session will take a look at new products in Ag and show how they will continue to change the future of farming.

1.0 CM CCA CEU



Thank You to these Conference Sponsors

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New Enterprise Stone & Lime
USDA - National Agricultural Statistics Service

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For information about sponsorship opportunities contact Amy Bradford at abradford@pennag.com

Tuesday – October 24, 2017

Credit Legend:

Certified Crop Adviser (CCA)

PA Nutrient Management (PA NM)

PA Pesticide Certification (PA Pesticide - Categories PC, 01, 18 unless otherwise noted)

Time	Majestic I	Majestic II	Majestic III
8a	Registration		
8-30a	Welcome		
8:45-9:45a	General Session – Weathering Water Extremes in the Changing Climate of the Mid-Atlantic Region Dr. Anthony Buda - USDA Agricultural Research Service 1.0 CM CCA CEU		
10-10:50a	Pennsylvania’s Future Chesapeake Bay Program – What Might It Look Like? Veronica (Nicki) Kasi - PA Department of Environmental Protection Chesapeake Bay Office 1.0 NM CCA CEU; PA NM	NRCS and REAP Program Update Susan Kubo – USDA-NRCS and Joel Semke - State Conservation Commission 1.0 SW CCA CEU; PA NM	2017 Weed Science Issues and Research Highlights Dwight Lingenfelter and Dr. Bill Curran – Penn State University 1.0 PM CCA CEU; PA Pesticide
11-11:50a	Grain Marketing and Perdue Soybean Processing Plant Updates Dick Cole, Perdue Agribusiness 1.0 CM CCA CEU	Nutrient Management Update, Standard Animal Weight Changes and Impact, Farm Inspection Summary Leon Ressler, Penn State Extension and Dennis Eby, Lancaster County Conservation District 1.0 NM CCA CEU; PA NM	2017 Weed Science Issues and Research Highlights Dwight Lingenfelter and Dr. Bill Curran – Penn State University 1.0 PM CCA CEU; PA Pesticide
Noon	Lunch		
12:45-1:45p	General Session - Agronomic Updates BASF Corporation – Gar Thomas; Valent USA – Kevin Deehan; Verdesian – Mark Fuchs 1.0 PM CCA CEU; PA Pesticide		
2-2:50p	Highlights of the Soybean On-Farm Project Del Voight, CCA – Penn State Extension 1.0 CM CCA CEU	2017 Slug and Insect Review Liz Bosak – Penn State Extension 1.0 PM CCA CEU; PA Pesticide	Take Off Technology: A Unique Tool for Enhanced Nitrogen Use Efficiency and Sustainable Production Nick Vandervort, CCA - Verdesian Life Sciences 1.0 NM CCA CEU; PA NM
3-3:50p	Overview of Organic Crops and the Impact in Pennsylvania Andrew Smyre, CCA - Anchor Ingredients LLC 1.0 CM CCA CEU	Keeping Pesticides Out of Ground Water Andrew Yenchu – Penn State Extension 1.0 SW CCA CEU; PA Pesticide	A Regulatory and Legal Understanding of Brown-Bag Seed Sean High - Penn State Center for Agricultural and Shale Law 1.0 CM CCA CEU
4-4:50p	General Session - Revisiting 30 Years of Weed Control – Where Have We Been and Where Are We Going? Dr. Bill Curran - Penn State University 1.0 PM CCA CEU; PA Pesticide		

Wednesday – October 25, 2017

Credit Legend:

Certified Crop Adviser (CCA)

PA Nutrient Management (PA NM)

(PA Pesticide - Categories PC, 01, 18 unless otherwise noted)

Time	Majestic I	Majestic II	Majestic III
8a	Registration		
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10-10:50a	General Session - Understanding the Importance of the 2017 Census of Agriculture and Ag Statistics King Whetstone - USDA National Agricultural Statistics Service 1.0 CM CCA CEU		
11-11:50a	Corn Silage and Forage Variety Trials Jessica Williamson – Penn State University 1.0 CM CCA CEU	Tell Me What I Need to Know – A Listening Session Dr. Paul Esker – Penn State University 1.0 PM CCA CEU; PA Pesticide	What We Learned About Hemp Production in 2017 Dr. Greg Roth – Penn State University 1.0 CM CCA CEU
Noon	Lunch		
12:45-1:45p	General Session - Agronomic Updates Agrium Wholesale - Bob Raley; FMC – Michael Myers; Dow/DuPont – Christopher Kline/Jennifer Clark 1.0 PM CCA CEU; PA Pesticide		
2-2:50p	Forage Research Jessica Williamson – Penn State University 1.0 CM CCA CEU	New Fungicide Modes of Action Dr. Paul Esker – Penn State University 1.0 PM CCA CEU; PA Pesticide	Tactics to Maximize Wheat Yields and Profitability in Pennsylvania Dr. Greg Roth – Penn State University 1.0 CM CCA CEU
3-3:50p	Invasive Species Update Tribby Libhart – PA Department of Agriculture 1.0 PM CCA CEU; PA Pesticide	Teaching Your Customers Basic Sound Agronomics: A CCA Panel Discussion Panelists: Chris Burkhardt CCA, Little Britain Ag Supply; Eric Rosenbaum CCA, Rosetree Consulting, LLC and John Rowehl CCA, Penn State Extension Moderator: Jeff Graybill CCA, Penn State Extension 1.0 CM CCA CEU	Trends in Sulfur Demands and Updates from the Soil Fertility Extension Program Dr. Charlie White - Penn State University 1.0 SW CCA CEU
4-4:50p	Using Cropping Systems Models to Understand and Maximize Soybean Yields Giovani Stefani Fae - Penn State University 1.0 CM CCA CEU	Today's PA Farm Economy and Its Impact on Support and Service Providers Farm Credit 1.0 CM CCA CEU	Equipment Technology Update - Where We Have Been, Where Are We Going? Marc Yoder - Hooper, Inc. 1.0 CM CCA CEU

Two Ways to Register:

1. Online (with credit card)

Directions: Log onto <http://www.cvent.com/d/rtqkq9> and provide all information necessary to complete your registration. When this option is used, there is no need to complete and submit this form. You will receive an email receipt upon completion of registration.

2. Via Fax/Email/Mail

Directions: Complete the remainder of the form as usual and submit with payment to:

Amy Bradford | PennAg Industries Association
 2215 Forest Hills Drive, Suite 39 | Harrisburg, PA 17112
 Phone: 717-651-5920 | Fax: 717-651-5926 | Email: abradford@pennag.com

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

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Email _____

Registration Fee:

- Both Days - \$200
- One-Day Only* - \$130 Tuesday Wednesday

Payment:

- Payment Enclosed (Check payable to PennAg Industries Association)
- Payment Forthcoming (Check payable to PennAg Industries Association)
- Please Invoice Me

Are You a Certified Crop Adviser (CCA)?

- No** **Yes** - Certification # _____

If yes, how many acres do you advise? _____

If yes, are you interested in serving on the PA CCA Board? **Yes** **No**

Are you interested in serving on the PA CCA Board? **Yes** **No**

Dietary Restrictions:

Please list any dietary restrictions we should be aware of: _____

ATTENTION CCAS!

CCA credits at this meeting will be credited via 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 the App Store (iPhone/iPad) or Google Play (Android) prior to arriving at the conference.



iPhone



Android

Hotel Reservations:

A block of rooms has been reserved for participants of the Conference at the Harrisburg-Hershey Holiday Inn at a rate of \$115 plus taxes per night. Availability for the conference rate are guaranteed for reservations made **prior to October 13, 2017**. Please contact the hotel directly at 717-469-0661 and mention the Keystone Crops and Soils Conference.