The 28th Annual

Eastern Shore Agricultural Conference

Wednesday & Thursday,
January 24 - 25, 2018

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Pesticide Recertification and CCA Credits

Commercial Categories: 1A, 10 and 60  
Private Categories: 90

To Receive Recertification Approval Growers MUST attend:

1. **Pesticide Legal Updates—Rodney Knight, VDACS Investigator**
   - 1/24, 9:40 am—General Session, Great Hall

2. **Pesticide Safety Updates**
   - 1/24, Hot Topics, Great Hall
   - 1/25, 11:30 am—Vegetable Session, Classroom

3. **Grower may pick 1 full session of their choice**
   - Agronomic, Soybean, Vegetable, Hot Topic, Potato

Please see the moderator of the break-out session for more details

<table>
<thead>
<tr>
<th>Category</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Nutrient Management</td>
<td>1</td>
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<tr>
<td>Soil &amp; Water Management</td>
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<tr>
<td>Integrated Pest Management</td>
<td>5</td>
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<tr>
<td>Crop Management</td>
<td>7</td>
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<tr>
<td>Professional Development</td>
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You must sign-in at the Registration Table in

Virginia Cooperative Extension programs and employment are open to all, regardless of age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, genetic information, veteran status, or any other basis protected by law. An equal opportunity/affirmative action employer.

If you are a person with a disability and desire any assistive devices, services or other accommodations to participate in this activity, please contact Theresa Pittman at 757-787-1361 ext. 14 during business hours of 8:30 a.m. and 5 p.m. to discuss accommodations 5 days prior to the event. *TDD number is (800) 828-1120

Virginia Soybean Association
## 2018 Eastern Shore Agricultural Conference and Trade Show

### General Session - Wednesday, January 24th - Great Hall

Presiding—Bruce Richardson, President, Association of Virginia Potato and Vegetable Growers Association, Inc.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30</td>
<td><strong>Welcome &amp; Opening Remarks</strong> – Mr. Bruce Richardson, Association of Virginia Potato and Vegetable Growers, Inc.</td>
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<td>A merchandiser’s point of view about planned marketing and indicators to watch in having an opinion on market direction. Also, a description of the Grain Division of the VA Farm Bureau and how it works for producers.</td>
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<tr>
<td>9:10</td>
<td><strong>Farm Safety: Lessons Learned on the Farm</strong> – Dr. Amy Johnson</td>
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<td>Having grown up on a farm, I never dreamed that farm safety would become such a part of my life, but along the way I have learned that achieving a safe environment doesn't have to be expensive or take a lot of time. This program will focus on simple things that everyone can do on their farm that prevent injuries and save lives.</td>
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<tr>
<td>9:55</td>
<td><strong>Pesticide Legal Updates</strong> – Rodney Knight, Pesticide Investigator, VA Dept. of Agriculture &amp; Consumer Services</td>
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<td>Pesticide legal updates from the VA Dept. of Agriculture &amp; Consumer Services, a required listening session to receive pesticide credits for 2017</td>
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<tr>
<td>10:20</td>
<td><strong>Break – Visit with Exhibitors</strong></td>
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<td><strong>Atrium and Vendor Classroom</strong></td>
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<tr>
<td>10:30</td>
<td><strong>Agriculture in the Political Climate</strong> – John Keeling, National Potato Council</td>
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<tr>
<td>11:10</td>
<td><strong>ESAREC Update</strong> – Dr. Steve Rideout, Director, ESAREC</td>
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<tr>
<td>11:15</td>
<td><strong>Virginia Tech College of Agriculture &amp; Life Sciences Update</strong> – Dr. Ed Jones, Director, Virginia Cooperative Extension, Virginia Tech</td>
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<tr>
<td>11:40</td>
<td><strong>Update from the Virginia Department of Agriculture and Consumer Services</strong></td>
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<tr>
<td>12:00</td>
<td><strong>Please Enjoy Lunch Catered by the Exmore Diner — served in the Great Hall</strong></td>
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John Keeling
National Potato Council Executive Vice-President and CEO

John Keeling has been the Executive Vice President and CEO of the National Potato Council since 2002. He directs the development and implementation of policy for the only national association of potato growers in the U.S. NPC has been highly successful in representing the diverse interests of U.S. potato producers and influencing policy that directly affects growers’ ability to compete domestically and globally. Recently the NPC was instrumental in reversing the ban on fresh white potatoes in the WIC feeding program.

Keeling previously worked for the National Food Processors Association and the American Farm Bureau, where he spent 10 years. He and his brother operate a small farm in central Virginia. Keeling received his MS in Agricultural Economics from Virginia Tech.
1:00  **Distributed Wind Assistance Program**— Dustyn Vallies, Outreach Manager, Center for Wind Energy at James Madison University

The *Distributed Wind Assistance Program* for Virginia is a new program being launched by the Center for Wind Energy at James Madison University intended to leverage the excellent wind resources in Virginia where they coincide with rural small businesses and agricultural producers. The program, which is funded by the U.S. Department of Agriculture and the Virginia Department of Mines, Minerals and Energy, will advance diversification of the state’s power generation portfolio while simultaneously enabling small businesses and agricultural producers to generate power independently while reducing their electricity costs. This effort is intended to advance the renewable energy goals set forth by our administration.

1:30  **Ready for two inches in five minutes? Rainfall simulator and soil health demonstrations from NRCS** — Chris Lawrence, Crop-land Agronomist, USDA-NRCS

Back in Accomack for the first time since 2009, the compact NRCS rainfall simulator is extremely popular with farmers nationwide. This live indoor demo will illustrate the impact of a violent thunderstorm on Eastern Shore soil samples taken from five fields under different cropping and tillage systems. Harvesting (and in some cases draining) rain is crucial to profitable crop production: this demonstration will illustrate how growers can optimize their soil sponge through better crop, soil, and residue management. The session will include other demos illustrating the benefits of building soils for better crops.

2:15  **Break – Visit with Exhibitors**

2:30  **Produce Safety Rule Implementation in Virginia** – Erik Bungo, Program Supervisor, Produce Safety Program, VDACS

This presentation will explain what VDACS is doing to implement the FSMA Produce Safety Rule in Virginia, legislation that was passed in 2017, and our partnership with Virginia Cooperative Extension.

3:00  **Pesticide Safety Updates** – Mrs. Ursula Deitch, Northampton County Extension Agent, VCE

Presentation 1 of 2. You must attend one of the *Pesticide Safety Update* presentations in order to receive recertification credit. Please don’t forget to have Ursula or Theresa sign your private/commercial recertification paperwork.

4:00  **Annual Meeting of the Association of Virginia Potato and Vegetable Growers** – Mr. Bruce Richardson, President, Association of Virginia Potato and Vegetable Growers, Inc.
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Annual Eastern Shore Ag Conference Oyster Roast

Location: Eastern Shore Agriculture and Extension Center
33446 Research Dr.
Painter, VA 23420

Time: Social hour will begin at 6:00 pm with food to be served at 6:30 pm

Tickets: cost is $40/person. Each ticket will include all you can eat oysters and BBQ. Ticket also include beverages (beer, soda, and water) in lieu of a cash bar.

Tickets are available at the registration table in the atrium.

The Oyster Roast is sponsored by the Farm Bureau Eastern Shore Young Farmers and the Association of Virginia Potato and Vegetable Growers, Inc.

Special Thanks to: Lauren Seltzer, Executive Secretary, ESAREC
Plant parasitic nematodes affect several vegetable crops in the Mid-Atlantic region resulting in reduced yields and quality. The loss of methyl bromide coupled with limited stocks of non-fumigant nematicides have brought nematode control to the forefront. To meet the demand of nematode control while avoiding fumigants (cost, equipment, fumigant management plans), companies have been working feverishly to develop the “Holy Grail” of nematode control. This presentation will address pros and cons of fumigant and non-fumigant nematicides.
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**Vegetable Session - Thursday, January 25th - Classroom**

**Moderator - Dr. Ramon Arancibia, Assistant Professor, Horticulture, ESAREC**

8:30  *Row Covers in Vegetables, Beyond Season Extension* – Dr. Ramón Arancibia, Horticulture, ESAREC
Row covers are used mainly for season extension. In this session, we will discuss the additional benefits of using row covers in vegetable crops in Virginia.

8:50  *Compact Bed Geometry for Improved Environmental and Economic Sustainability* – Dr. Sanjay Shukla, University of Florida
A novel bed geometry (taller and narrower) has been designed and evaluated for raised-bed plasticulture in the Eastern United States. Main benefit is reduced inputs (conservative up to $300/ac) without impacting yield.

9:20  *Sweet Corn IPM in Virginia* – Dr. Tom Kuhar, Entomology, VT Blacksburg
This talk will summarize the statewide scouting program established to monitor pests on farms in Virginia and evaluations of the efficacy of Bt transgenic sweet corn varieties as well as a more IPM compatible insecticide program for sweet corn that not only controls the key pests, but minimizes impacts on pollinators and insect natural enemies.

9:50  *Vegetable Disease Management in Virginia* - Dr. Steve Rideout, Plant Pathology, ESAREC and Jill Pollok, Research Specialist, ESAREC
We will discuss several new tools and fungicides that have been evaluated for vegetable disease management. Over time, shifts in disease occurrence and severity occur due to cultivar, pesticide and product ion changes. We will include a review of the disease spectrum noticed in 2017 and suggestions for the upcoming season.

10:10  *Break – Visit with Exhibitors*  
Atrium and Vendor Classroom

10:30  *Timing and Efficacy of Potato Vine Desiccants* - Dr. Charles Cahoon, Weed Science, ESAREC
Research was conducted during the 2017 growing season to compare several potato vine desiccants to the current grower standard of Reglone. Products included Rely, Aim, and Sharpen. Products were applied at three different timings; 0, 1, and 2 week delay.

10:50  *Update on FSMA’s Produce Safety Rule: Are you Compliance Ready?* – Dr. Laura Strawn, Food Science, ESAREC
Attendees will understand the following key issues regarding FSMA’s Produce Safety Rule: coverage, exemptions, basic standards, and compliance dates. The Produce Safety Rule was recently adopted as legislation in Virginia and will be enforced by the Virginia Department of Agricultural and Consumer Services. This lecture will assist attendees in their base understanding of the regulation, and what they need to know moving forward.

11:10  *Cover Crops: Can They Really Improve Soil Quality Parameters?* - Dr. Mark Reiter, Soil and Nutrient Management, ESAREC
Many different cover crops can be utilized to change soil parameters in a relatively short period of time. Four different modes of actions will be explored and their overall impact on nutrient cycling and soil physical properties will be discussed. As with anything, drastically changing a soil system in a short period of time means that management decisions may need to focus on new problems as compared to traditional systems.

11:30  *Pesticide Safety Updates* – Mrs. Ursula Deitch, Northampton County Extension Agent, VCE
Agronomic Session - Thursday, January 25th - Great Hall

Moderator - Dr. Charlie Cahoon, Assistant Professor, Weed Science, VT ESAREC

8:30 Malting Barley Production and Markets; Grain Production Update – Dr. Wade Thomason, Small Grains Specialist, VT Blacksburg

Opportunities and challenges associated with growing malting barley in Virginia will be discussed. Building high yield potential and delivering the desired quality end product will be the focal points. General small grain and corn management updates will also be covered.

9:15 Row Crop Insect Pest Management - Dr. Sally Taylor, Entomology, VT Tidewater AREC

Information on current insect pest problems in row crops. Results of surveys for invasive pests, insecticide resistance monitoring programs, and insecticide performance evaluations will be discussed.


One strategy to increase nitrogen use efficiency is to use fertilizer additives that improve the uptake and utilization of nitrogen from fertilizers. Additives that fall into this classification are called enhanced efficiency nitrogen fertilizers (EENF’s). Within EENF’s there are different modes of action. Understanding these modes of actions will allow producers to choose products that fit their operation.

10:15 Break – Visit with Exhibitors

10:45 Sorghum Pest Management – Dr. Charlie Cahoon, VT ESAREC, Dr. Hillary Mehl, Plant Pathology, VT Tidewater AREC and Dr. Sally Taylor, Entomology, VT Tidewater AREC

Pest management is an important component of producing sorghum. This presentation will focus on problematic diseases, insects, and weeds that infest sorghum and tactics for control.

11:15 Integrated Disease and Nematode Management in Corn and Small Grains – Dr. Hillary Mehl, Plant Pathology, VT Tidewater AREC

Diseases are a major constraint to corn and small grains production in the mid-Atlantic, and they can reduce both yield and quality of the harvested crop. The most economical approach to disease control includes a combination of cultural practices, variety selection, and judicious use of fungicides. Major diseases of corn and small grains and up-to-date management recommendations will be presented.
2018 Eastern Shore Agricultural Conference and Trade Show

Soybean Session - Thursday, January 25th - Great Hall

Moderator - Mark Reiter, Associate Professor of Soils and Nutrient Management, ESAREC

1:00 **2017 Weather Review and Eastern Shore Climatology** – John McGee/Larry Brown, Meteorologist, NOAA - National Weather Service
The presentation will include a general weather review of the 2017 growing season, including temperature and precipitation highlights. A climatology of the region will also be discussed in detail, including a look at temperature and precipitation averages and variability.

1:45 **Potassium Requirements for Soybean Production on Eastern Shore** – Dr. Rasel Parvej, Postdoctoral Associate, VT Tidewater AREC
Quantifying soil-K availabilities at deeper depths may be necessary to determine optimum fertilizer-K rate for soybean grown on coarse-textured low cation exchange capacity (CEC) soils that are prone to K leaching. We characterized full-season and double-crop soybean responses to fertilizer-K across 22 coarse-textured low-CEC sites during 2013 to 2015. The new K fertilizer recommendations for soybean production in Eastern Shores will be presented.

2:15 **The Economics of Timely Weed Control** – Dr. Charlie Cahoon, Weed Science, VT ESAREC
Weeds compete with crops for valuable water, nutrients, sunlight, and space. In this presentation Dr. Cahoon will discuss the benefit of timely weed control to preserve yield from an economic standpoint.

2:45 **Break - Visit with Exhibitors**

Atrium and Vendor Classroom

3:00 **Manganese and Boron Coated Fertilizer as an Alternative Method to Correct Soybean Nutrient Deficiency in Coastal Plain Soils** – Abigail Baxter, Ph.D. Student, Soil Fertility
Manganese and Boron are two essential micronutrients for plant growth and are commonly deficient in acid, sandy soils and in soils with high pH. Our experiment tests the ability of a novel coated fertilizer to correct these deficiency symptoms by applying the micronutrients coated on potash fertilizer granules.

3:30 **Stink Bugs, Stem Borers, and the Delmarva** – Dr. David Owens, Extension Entomologist, University of Delaware Carvel Research and Education Center
Stink bugs can be important late season pests to soybeans between R3-R7. Behavioral differences among the stink bugs can be used to optimize management. Brown marmorated natural enemies may become important control agents as well. Dectes stem borers periodically cause lodging losses in Delaware, and their biology and management implications will be discussed.

4:00 **Soybean Variety Selection-We Can Do Better** – Dr. David Holshouser, Agronomist, VT Tidewater AREC
Soybean variety selection should be field-specific. We determined the probability of a relative maturity

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