The 29th Annual

Eastern Shore Agricultural Conference & Trade Show

Wednesday & Thursday,
January 23 - 24, 2019

Eastern Shore Community College
29300 Lankford Highway, Melfa, VA 23410
Pesticide Recertification

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

To Receive Recertification Approval Growers MUST attend:

1. Pesticide Legal Updates—Rodney Knight, VDACS Investigator
   - 1/23, 9:30 am—General Session, Great Hall

2. Pesticide Safety Updates
   - 1/23, 3:00 pm—Hot Topics, Great Hall
   - 1/24, 11:15 am—Vegetable Session, Classroom

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

   You must sign-in at the Registration Table in the Atrium in order to receive pesticide credits

***Don’t forget to have Ursula or Theresa sign your blue or yellow paperwork!!

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## Annual Eastern Shore Ag Conference Oyster Roast

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

**Time:**  
- Social Hour & Raw Bar: 6:00 pm  
- BBQ and Oysters: 6:30 pm

**Tickets:**  
- Cost is $40/person  
- $5.00 discount per ticket for members of the Association of Potato & Vegetable Growers, Inc.  
- 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 available at the Conference Registration Table**

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

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*Special Thanks to: Lauren Seltzer, Executive Secretary, ESAREC*
2019 Eastern Shore Agricultural Conference and Trade Show

General Session - Wednesday, January 23rd - Great Hall

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

8:20 a Welcome & Opening Remarks – Mr. Bruce Richardson, Association of VA Potato and Vegetable Growers, Inc.

A merchandiser’s point of view on futures market influences and considerations for cash sale decision making.

9:00 VIMS ESL Wachapreague, A Legacy of Marine Resources Research, Current Work, and Future Directions - Dr. Richard Snyder, VIMS, Wachapreague
VIMS ESL has been involved in aquaculture research since the 1940’s, and its first formal director, Mike Castagna, was instrumental in developing clam aquaculture for the ESVA. The second ESL director, Mark Liuckenbach, promoted oyster aquaculture, wild stock assessment and restoration. Current work at ESL involves clam, oyster, and bay scallop aquaculture, and continues work on water quality to ensure protection of aquaculture activities and health of marine resources. Common ground and partnerships with the agriculture community are a key to sustaining marine resource and agriculture interests into the future.

9:30 Pesticide Legal Updates – Rodney Knight, Pesticide Investigator, VA Dept. of Agriculture & Consumer Services

10:15 Break – Visit with Exhibitors Atrium and Vendor Classroom

10:30 Developing Virginia’s Chesapeake Bay Watershed Implementation Plan — James Davis Martin, Chesapeake Bay Program Manager, Virginia Department of Environmental Quality

11:10 ESAREC Update – Dr. Steve Rideout, Director, ESAREC

11:15 Virginia Tech College of Agriculture & Life Sciences Update—Dr. Susan Duncan, Associate Director, Virginia Agricultural Experiment Station

11:40 Update from the Virginia Department of Agriculture and Consumer Services—Dr. Jewel Bronaugh, VDACS Commissioner

12:00 Please Enjoy Lunch Catered by the Exmore Diner—served in the Great Hall
James Davis-Martin is the Chesapeake Bay Program Manager for the Virginia Department of Environmental Quality. His education in Marine Science is supplemented by work experience with the Army Corps of Engineers, National Oceanic and Atmospheric Administration, Coast Guard and 20 years with the Commonwealth of Virginia working on Chesapeake Bay restoration efforts. James is the current Co-Chair of the Chesapeake Bay Program’s Water Quality Goal Implementation Team where he works in cooperation with the Chesapeake Bay jurisdictions, EPA and numerous Bay stakeholders to chart the course for Bay restoration. James enjoys spending time on the water; boating, swimming, fishing and exploring the beauty and bounty of the Chesapeake Bay ecosystem.

**Please fill out the Conference evaluation and return it to the Registration table to be entered for $100 Gift Certificate to the Charlotte Hotel, Onancock, VA**

**We appreciate your willingness to provide feedback to the Planning Committee.**

When grain quality and yield rule, profit reigns.
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Hot Topics Session—Wednesday, January 23rd—Great Hall

Moderator - Jill Pollok, Research Specialist, Plant Pathology, ESAREC

1:00 p  Growing Rape-Seed: An Update — Lynn and Sands Gayle, Mt. Nebo Farms

After two years of growing rape-seed, Mt. Nebo Farms will share their experiences with the crop.

1:30  Farm Financial Risk Management: Introduction to Farm Planning Budgets — Kim Morgan, Agricultural Economics, VT Blacksburg

A farm enterprise budget is the organization of revenues, expenses, and profit for a specific farm enterprise that is constructed on a per-unit-of-production basis. The purpose of an enterprise budget is to demonstrate the potential profitability of each enterprise to the farm business. A completed enterprise budget provides farm managers with a tool that includes opportunity costs that demonstrate the economic returns to the enterprise in addition to the accounting costs.

2:30  Break – Visit with Exhibitors  Atrium and Vendor Classroom

2:45  Edamame Research at Virginia Tech—Kemper Sutton and Nick Lord, M.S. students, Plant & Environmental Sciences, VT Blacksburg

The Edamame Project, based at Virginia Tech and funded by the USDA, spans three universities and combines expertise to address the research needs in order to provide improved inputs and production information to growers, develop a better-tasting product for consumers, and ultimately, support growth of the domestic market for edamame in the U.S.

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.

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Vegetable Session - Thursday, January 24th - Classroom

Moderator - Cameron Bardsley, Ph.D. candidate, Food Science, ESAREC

8:30 a Update on Insect Pest Management for Snap Beans and Tomatoes – Dr. Tom Kuhar, Entomology, VT Blacksburg and Helene Doughty, Research Technician, VT ESAREC

Snap Beans and tomatoes are attacked by a handful of insects that can impact yield and quality of crops. A review of the key pests in Virginia and the best ways to manage them will be presented.

9:15 On Farm Readiness Review (OFFR)- Program Review for VA Growers—Tommy Saunders, Extension Associate, Food Science VT Blacksburg

Have you attended the Produce Safety Alliance Grower Training? Are you covered by FSMA’s Produce Safety Rule, Qualified Exempt, or Exempt, but still looking for the next step in addressing food safety issues on your farm? That next step is the OFRR program. This program offers a FREE & CONFIDENTIAL opportunity to have VDACS and VT/VCE help you assess your operation’s readiness for a Produce Safety Rule inspection. The details of how a visit typically goes, how long it takes, what parts of the operation are key to look into and who can be involved in the OFRR will all be addressed in this presentation.

9:45 Vegetable Disease Management in Virginia - Dr. Steve Rideout, and Jill Pollok, Plant Pathology, 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 production changes. We will include a review of the disease spectrum noticed in 2018 and suggestions for the upcoming season.

10:15 Break – Visit with Exhibitors

10:45 Staying Out of the News: Lessons Learnt from Major Foodborne Outbreaks - Erika Estrada and Dr., Laura K. Strawn, Food Science, ESAREC

Foodborne outbreaks are the result of failures or lapses in the farm to fork supply chain. Understanding the root cause (or source) of foodborne outbreaks is essential to preventing further outbreaks – as the same or similar weaknesses may exist in different operations. This presentation will summarize key foodborne outbreaks and provide recommendations for industry to avoid becoming the next headline (aka an operation linked to a foodborne outbreak).

11:15 Pesticide Safety Updates – Mrs. Ursula Deitch, Northampton County Extension Agent, VCE

Presentation 2 of 2. You must attend one of the two Pesticide Safety Update presentations in order to receive recertification credit.

12:00 Please Enjoy Lunch Catered by the Exmore Diner—served in the Great Hall
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**Potato Session - Wednesday, January 23rd - Classroom**

*Moderator - Butch Nottingham, Marketing Specialist, VDACS*

**1:00 p**  **Update from the National Potato Board** – Mr. Phil Hickman, Dublin Farms

**1:10**  **Update from Potatoes USA**—Kayla Dome, Global Marketing Manager, Potatoes USA  
An update on the state of the potato industry as well as retail and foodservice trends.

**1:40**  **Potato and Disease Management for ESVA Growers** – Dr. Steve Rideout, Jill Pollok, and Jose Garcia, Plant Pathology, ESAREC  
Historical management of potato soilborne diseases, including southern blight (*Sclerotium rolfsii*), has been pesticide and fumigant dependent with inconsistent results. This talk will summarize a two year’s field trial evaluating planting date and cultivar selection for southern blight management on potato on the Eastern Shore of Virginia and the Mid-Atlantic. Other potato disease management tools will be discussed and recent results of field trials at the ESAREC will be presented.

**2:00**  **Break – Visit with Exhibitors**  
*Atrium and Vendor Classroom*

**2:10**  **Update on Current Research for Managing Wireworms and Potato Beetles** - Dr. Tom Kuhar and Helene Doughty, Entomology, VT Blacksburg  
Wireworms and Colorado potato beetles remain two of the most important pests of potato in Virginia. In this talk we will discuss some recent trials with insecticides for managing these pests.

**2:30**  **Market Outlook for 2018** – Mr. Brett Richardson, Marketing Specialist, VDACS

**3:00**  **Promising Potato Varieties in 2018 NC Yield Trials**— Mark Clough and Dr. Craig Yencho, NC State  
2018 was a challenging year for most of the country. In NC our trials suffered from an extremely wet season and out of these difficult conditions several varieties stood out. We will discuss what did well and talk about some of the failures too.
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8:30 a  Production and Management of Malting Barley – Dr. Wade Thomason, Small Grains Specialist, VT Blacksburg

9:15  Before and After: Weed Management Outside of the Growing Season—Dr. Michael Flessner , Weed Science, VT Blacksburg

What are the best herbicide options for burndown? What about cover crop termination? What happens to seeds produced from weeds that escape control during the season? How long do they survive? What can I do about it? These questions and related issues will be discussed.

9:45  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.

10:15  Break – Visit with Exhibitors  Atrium and Vendor Classroom

10:45  New Approaches to Disease and Nematode Management in Agronomic Crops – Dr. Hillary Mehl, Plant Pathology, VT Tidewater AREC

New tools and approaches for management of crop diseases an nematodes are continuously being developed, but it is important to know how to effectively and economically incorporate these into crop production systems. Research updates and new management recommendations for scab in small grains and nematodes in corn and soybean will be the focus of this presentation.

11:15  At-plant and Post-harvest Insect Control - Dr. Sally Taylor, Entomology, VT Tidewater AREC

Insect control decisions are made throughout the year. This talk covers products applied at-planting or during field preparation as well as protectants applied to grain for storage. It emphasizes how to protect your investment and save you money.

11:45  Brown Stink Bug Management in Seedling and Reproductive Corn –Tim Bryant, Ph.D. Student, Entomology

Current farm management and environmental factors have favored perennially large brown stink bug populations in corn. Seed Treatments and in-furrow applications are common and may provide early protection. Aerial applications are also increasingly common in southeastern Virginia and coastal North Carolina. This brief talk will highlight scouting techniques, when it is profitable to control stink bugs in corn, and what products offer best control both in seedling and reproductive corn.

12:00  Please Enjoy Lunch Catered by the Exmore Diner—served in the Great Hall
1:00 p  **Herbicide Resistant Weed Management: Chemical and other Options** – Dr. Michael Flessner, Weed Science, VT Blacksburg

Following a brief update on herbicide resistance, I will cover the best herbicide options and application timings for Palmer amaranth, common ragweed, marestail/horseweed, and Italian ryegrass. Dicamba product label updates for use in Xtend soybeans and associated recommendations will be discussed. Additionally, effective integrated weed management options will be covered, including optimization of cover crops for weed management.

1:45  **Should I Spray or Not?** – Dr. Sally Taylor, Entomology, Tidewater AREC

Inevitably, there will be some soybean fields that exceed pest thresholds and require insecticide sprays. In 2018, many Virginia fields were late-planted because of unfavorable weather conditions. As a result, fields were susceptible to insect pests later in the season than in a typical year. This talk will focus on late-season insect pests, how to scout for them, when to spray for them, and when to stop.

2:15  **Southern Cover Crop Council Website and Grower Survey**

**Cover Crops: Can They Really Improve Soil Quality Parameters?** – Dr. Mark Reiter, Soil and Nutrient Management, ESAREC

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3:00  **Soybean Variety Selection and Seeding Rates: Maximizing Yield While Minimizing Risk** – Dr. David Holshouser, Agronomist, VT Tidewater AREC

2019 could be a year of slim profit margins for soybean and other crops. This presentation will use soybean variety selection and seeding rates as an example of managing risks from the agronomic viewpoint. Applying these yield risk principles to other agronomic decisions can be valuable in a year of low prices.
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Moderator – Mark Reiter, Associate Professor of Soils and Nutrient Management, ESAREC

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Soybean Session – Thursday, January 24th – Great Hall

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