

# VAAE 2022

# SUMMER CONFERENCE

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FIELDS OF OPPORTUNITY



JULY 18-21ST, 2022  
WARRENTON, VA

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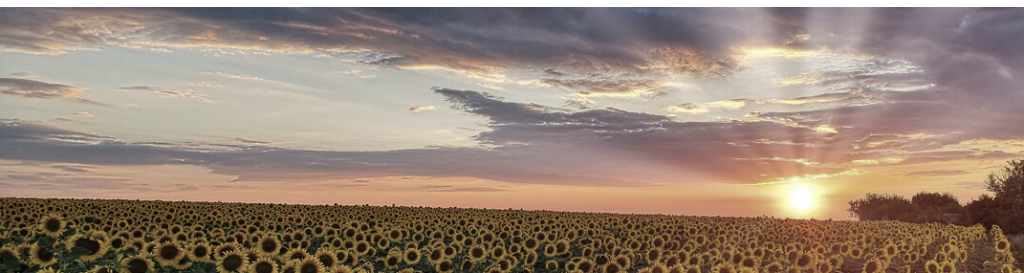
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# CONFERENCE SCHEDULE

## **Sunday, July 17th** *Fauquier High School*

Afternoon TBD Early Teacher Bootcamp

6:30PM Early Teacher Dinner

## **Monday, July 18th**

9:00-12:00PM Early Teacher Bootcamp

12:30PM Registration Opens

1:00-5:00PM Certification Workshops

4:30PM Registration Closes

## **Tuesday, July 19th**

7:30 AM Registration Opens

8:00-9:00AM Morning Workshop Session 1

9:00-10:00AM Morning Workshop Session 2

# CONFERENCE SCHEDULE

10:00-11:00AM	Business Session 1
11:00-12:00PM	Area Teacher Meetings
12:00-1:00PM	Lunch
1:00-2:45PM	Afternoon Workshop Session 1
2:45-3:15PM	Break/Snack Time <i>Sponsored by Farm Credit</i>
3:15-5:00PM	Afternoon Workshop Session 2
6:00PM	Retired Teacher Reception

## **Wednesday, July 20th**

8:00-4:00PM	Local Agriculture Tours
6:00PM	VAAE Banquet <i>Fauquier Springs Country Club</i>

## **Thursday, July 21st**

8:00AM	Closing Session
9:00-12:00PM	Make-it-Take-it Workshops

# MONDAY WORKSHOP DESCRIPTIONS

04

## **Beef Quality Assurance (BQA) Certification Katherine Carter, Virginia Tech Cattle Working Contest Tips and Tricks, Katherine Carter & John Welsh**

This workshop is for teachers who wish to offer the BQA High School Credential and/or the required BQA Training for Youth Cattle Working Participants. In addition to certification/recertification, we cover the logistics and details of the BQA HS Credential Curriculum and the requirements for accessing that curriculum; talk about the testing requirements handled by Safety First; and participate in some hands-on activities that are provided to support the curriculum. This program and trainer testing will fulfill requirements for initial certification and recertification. Teachers are responsible for determining the status of their current certification. This course will be taught twice each year - Winter In-service and Summer Teachers' Conference. There will not be additional in-person or virtual certification opportunities. All teachers who certify/recertify will be entered into a drawing for a BQA Kit. After the BQA certifications and Cattle Working Tips there will be an informational session on YQCA and how to become certified to offer the program.

## **Category 10 Pesticide Certification Marc Moran, Atlee High School**

Come prepared to take the CAT-10 test! Registrants will be provided with a link to sign up for Virginia Tech's Pesticide Program to help prepare. For teachers needing recertification points, additional subjects will be covered. There is additional paperwork that needs to be completed by June 10th to be able to take the test on July 18th. Contact Ryan Rutherford at [ryan.rutherford@vdacs.virginia.gov](mailto:ryan.rutherford@vdacs.virginia.gov) for more information.

## **REGISTRANTS WHO WISH TO TAKE THE CAT-10 EXAM MUST REGISTER BY JUNE 10TH.**

## **Boater's Education/Hunter Safety Certification**

This session is only for teachers who previously completed the Boat Virginia course and are being trained to teach the course in their classrooms.

Topics will include:

- How to apply to become a state boating safety instructor
- Age and education requirements for operating a boat or personal watercraft
- The Boat Virginia course format
- Explanation of the curriculum and course materials
- How to plan a class and order materials
- How to enter student results into the state system
- Enhancement activities for active learning
- Updates on life jackets and boating laws
- Paddle sports awareness – kayaks, canoes, rafts, and stand-up paddle boards

### **FAST (Farm and Agriculture Safety Training) “Hazardous Chemicals in Agriculture” Autumn Timpano, Virginia Tech**

There are many chemicals used in agricultural processes, but do you know the best practices for handling and storing these substances? What protective equipment should be worn? How are excess chemicals disposed? Virginia Tech’s Farm & Agricultural Safety Team will discuss this and more.

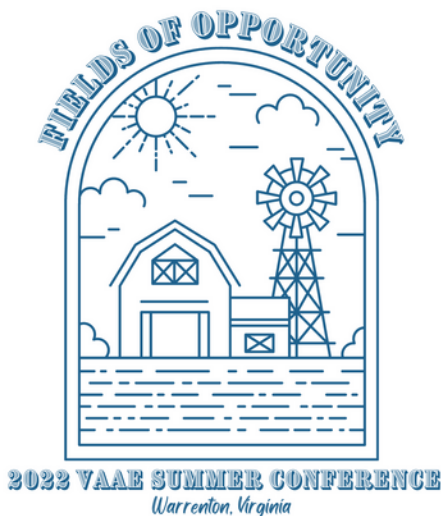
*Note: This is NOT for a certification, but will have access to the curriculum after this workshop.*

### **Historic Tour to Manassas/Bull Run Darryl Holland, Henry County Career Academy**

This 1861 Civil Warsite was the first really large engagement of the war, and was also the location where Confederate General Thomas J. Jackson earned his famous name of "Stonewall." There was a "Second Manassas" or "Bull Run" in 1862, and the tour will also discuss this lesser known conflict. A visit to the museum and bookstore will be included. Participants should be prepared to pay a park fee, but it is usually very reasonable.... So "History Buffs?" Plan to be with us for this historic tour!

### **How to Fly Drones Dan Swafford, Virginia Tech**

In this hands-on workshop, teachers will be taught about the components of a drone, learn tips for safe flying, and will have the opportunity to try their hand at flying from an FAA Part 107 Certified Remote Pilot.



# TUESDAY WORKSHOP DESCRIPTIONS

06

**8:00 AM - 9:00 AM**

## **Farm Credit Knowledge Center**

*Sarah Scyphers*

Join the Knowledge Center with Farm Credit to learn more about resources that are available to you and your classroom. From Ag literacy and financial curriculum, commodity information to risk management there are so many resources available to Virginia Educators!

## **VICE Conference**

*Mary Howell, Virginia Cooperative Council*

Each spring, the Virginia Cooperative Council sponsors a free weekend retreat for high school students. While at Graves Mountain Lodge, they meet other teenagers from across Virginia and have fun while learning about the cooperative business model. Many past attendees were active in FFA and 4-H, and we welcome YOUR help and input to rebuild the Virginia Institute on Cooperative Education following two years of COVID-19 impacts. This interactive presentation by staff member Mary Howell will give YOU an opportunity to shape next year's program, set for March 24-26, 2023.

## **Taking on the Virginia FFA Turf Science CDE**

*Marc Moran, Atlee High School, Michael Goatley, Jr. & Daniel Sandor, Virginia Tech*

Members of the Virginia Tech Faculty Turf Team will go over the Turf Science CDE and the Strategies to help ANY FFA Chapter have a successful team. They will share the latest information from Turf CDE's across the country and the push to take this CDE to the National FFA level. Advisors will get a glimpse into each area of the CDE and the resources that are available.

## **SAE for All Workshop**

*Stephen Edwards, University of Mount Olive*

This workshop will provide teachers support on using SAE for All in the classroom. Teachers will gain exposure to the future of the SAE for All Model, a chance to share best practices within the model, and a chance to learn how the model works with SAE Based Awards. It is suggested that teachers bring a laptop or another device that can access the internet for this workshop.

**9:00 AM - 10:00 AM****More Options for Greenhouse Certifications**

*Renee Hypes, Gloucester High School*

The program will review the purpose of the CBLP program and how the CBLP-Associate certification fits into the horticulture and landscaping classes. We will also describe the curriculum and activities that constitute the certification.

**Basic Financial Record Keeping**

Learn basic financial record keeping to use in the classroom, teach your students or use for your personal finances. We will dive into basic accounting (assets, liabilities and owner's equity) and how to keep a register of debit and credits. This workshop will help teachers in answering questions and leading their students through SAE Recordbooks.

**Work Based Learning**

Work Based Learning allows students to apply classroom knowledge in a work environment. Now students can also earn school credits for their WBL work experiences. Come to this workshop to learn about how you can incorporate Work Based Learning into your program's course offerings.

**Boating in Virginia Curriculum & Hunter Safety Curriculum Workshop**

*Trevor Ruble*

This presentation will introduce classroom teachers to the opportunity to become certified state boating safety instructors and to teach the course to their students. This course is recommended for students 12 years of age and older who want to learn more about the fundamentals of safe and responsible boating.

**1:00 PM - 2:45 PM****Big Picture Planning**

Learn how to focus on big picture goals to plan your courses that best to meet the needs of your students and community. We will discuss our individual purposes for teaching agriculture in relation to our specific locations, break down courses into manageable pieces, and how to transition these pieces to smaller lessons.

**Math in Vet Science Workshop**

*Heidi Davis, Massaponax High School*

Does the Vet Science Career Development intimidate you? Do you need help preparing your contest teams with the math portion of the practicums? This workshop will be for you! Come to receive helpful tips and procedures to get your students prepared and confident for the Vet Science CDE.



**MIG Welding**

*Alan Weaver*

Are you familiar with MIG Welding? Would you like to add this type of welding experiences to your program? Come to this workshop to learn more about MIG welding and how you can get started in offering this to your agricultural mechanics laboratory.

**Big Picture Planning**

*Natalie Ferand, Virginia Tech*

Learn how to focus on big picture goals to plan your courses that best to meet the needs of your students and community. We will discuss our individual purposes for teaching agriculture in relation to our specific locations, break down courses into manageable pieces, and how to transition these pieces to smaller lessons.

**Natural Resources**

*Rebekah Slabach, Agriculture Extension Agent Halifax County*

A workshop provided by FFA Alums, learn about how Ag Agencies (VCE, NRCS, SWCD, and FSA) can help your curriculum and FFA chapter! In addition, you will learn about opportunities like Forestry Camp, Youth Conservation Camp, Essay and Poster Contests for your students to participate in – many that are sponsored by these ag agencies for youth!

**Aquaponics**

*Chris Mullins, VSU*

Aquaponics is the integration of a hydroponic plant production system with a recirculating aquaculture system. A hydroponic system (closed or open) involves growing plants without soil i.e. in only nutrient solution or in some type of artificial media. A recirculating aquaculture system (RAS) is most often the production of fish in a closed system where water quality is maintained through a filter system. Independently, hydroponic systems and RAS can be productive and commercially viable. A small hydroponic or aquaponic system can be a great addition to the teaching environment. During this session, participants will learn about hydroponic and aquaponic systems that would be appropriate for teaching environments including the basic components and management of these systems.

**3:15 PM - 5:00 PM**

**Grooming 101**

*Lindsay Huggens*

In teaching Small Animal Care, it is important to know the tips and tricks of local groomers to teach students the proper way of taking care of companion animals.

Come to this workshop to learn the basics of grooming small animals.

**Learning STEM Through Design: Expanding What Counts as "Engineering" to Support Student Engagement**

*Hannah Scherer, Virginia Tech*

Engineering design includes three general stages: 1) defining a problem, 2) developing solutions, and 3) optimizing solutions for real-world application. This framework centers real-world phenomena and has many applications in agricultural education. Drawing on resources from the STEM Teaching Tools collection (<https://stemteachingtools.org/>), participants will learn to apply the engineering design framework in their own teaching. Participants are encouraged to bring an idea for a hands-on project that they already teach that they would like to work on.

**School Greenhouses and Plant Sales for Beginners**

*Melessa Suder, Eastern View High School*

This workshop is intended for agriculture teachers fairly NEW to greenhouse operation and plant sales. We will discuss greenhouse equipment, how to read plant catalogs, suppliers, planting schedules, and how to efficiently run a plant sale. There will be a Q & A period, so bring your questions! Side note: if you attended the Winter Inservice workshop, this one will be similar.

**Teaching with Sketch-Up**

*Teresa Lindberg, E.W. Wyatt Middle*

Come learn the basics of 3D design using SketchUp for Schools. This is a free and intuitive 3D modeling app that enables students to have creative expression and skill development. I will show you how I use the software in my class. I have students create models of barns, stables, agricultural businesses, and their "dream" houses. There are numerous applications. If you want to try it out, bring your laptop and explore your 3D options. Please note this is an introduction to SketchUp not for teachers who have been using the program.

**Virginia Agriculture in the Classroom**

*Tammy Maxey, Senior Programs Director*

Virginia Agriculture in the Classroom partners with local agriculture classes each year providing youth leadership opportunities through the AITC agricultural literacy and grants programs. This session will focus resources available through AITC designed for secondary students and explore new opportunities to develop youth leadership through the AITC ambassador project.

# WEDNESDAY TOUR DESCRIPTIONS

10

## Tour 1: Urban Agriculture

### **University of D.C. - Center for Urban Agriculture and Gardening Education**

The Center for Urban Agriculture and Gardening Education (CUAGE) seeks to expand academic and public knowledge of sustainable farming techniques that improve food and water security. The center also seeks to improve the health and wellness of people in the local community and around the world through research and education or urban and peri-urban agroecology and gardening techniques. CUAGE plays a key role in two global challenges: urbanization and urban food and nutritional security.

### **Bertie Backus Food Hub**

The Bertie Backus Food Hub is on the premises of the UDC's Bertie Backus Community College. The food hub was built on an underutilized basketball court with grants from the Department of Energy and Environment (DOEE) and Anacostia Economic Development Cooperation (AEDC). The food hub has aquaponic and hydroponic systems, a native plant nursery, a demonstration kitchen, and garden beds. The native plant nursery is a unique feature in this food hub that serves as a space to teach job skills in greenhouse management and plant production. The demonstration kitchen is utilized as a business incubator and a learning space for students and community members on food safety and nutrition. Community members can participate in the food hub by cultivating a garden bed.

### **National Mall Lawn**

Visit America's Front Lawn with a tour from Virginia Tech turfgrass alumni, James Snell. This 20 acre lawn hosts over 30 million visitors annually. The mall lawn was completely renovated in 2018 with state of the art infrastructure and agronomic practices creating a beautiful lawn despite millions of footsteps on the grass.

### **United States Botanic Garden (if time permits)**

Steeped in history, rich with tradition, the United States Botanic Garden is a living plant museum that informs visitors about the importance, and often irreplaceable value, of plants to the well-being of humans and to earth's fragile ecosystems. Established by the U.S. Congress in 1820, the U.S Botanic Garden is the oldest continuously operating botanic garden in the United States.

### **Piedmont Equine**

Visit the state of the art hospital at The Piedmont Equine Practice. They provide comprehensive care for equine athletes at all levels – from performance horses to trail horses, companions and retirees through ambulatory farm calls or in our state of the art hospital. Coverage for emergencies is available 24/7. Veterinarians in the practice have special interests in sports medicine and reproduction. Piedmont has two boarded surgeons who are critical care specialists, as well as staff doctors who have obtained national certification to provide alternative modalities such as acupuncture and chiropractic.

### **Middleburg AREC**

The Middleburg Agricultural Research and Extension Center was established in 1949 through the generous donation of land and facilities by the late Paul Mellon. Our mission is to provide the stakeholders of Virginia and the wider equestrian community with innovative research, translational technologies, and state of the art education through research, teaching, and outreach efforts.

### **Oak Spring Garden Foundation**

The mission of the Oak Spring Garden Foundation (OSGF) is to perpetuate and share the gifts of Rachel “Bunny” Lambert Mellon, including her residence, garden, estate and the Oak Spring Garden Library, to serve the public interest. OSGF is dedicated to inspiring and facilitating scholarship and public dialogue on the history and future of plants, including the culture of gardens and landscapes and the importance of plants for human well-being.

## Tour 3: Southern Fauquier

### **Fauquier Education Farm**

This 10 acre produce farm has 2 goals: offering agricultural education by providing best practice demonstrations and growing produce for local food banks. Fresh produce grown on the Farm is distributed to local food banks for further distribution to those in need. The farm grows and donates tens of thousands of pounds of produce each year. The Education Farm depends on the support of volunteers as well as financial contributions from our community.

### **Solider’s Hill Angus Farm**

This seed stock operation produces registered angus and recently sim/angus. They also make and sell quality hay to the horse community in the surrounding area. The owner is Dennis Pearson, a former agriculture teacher at Fauquier High School. Dennis has an innovative plan for excellence in genetics and nutrition for his 160 animal herd.

### **Cool Lawn Farm/Moo Thru**

This family owned and operated dairy has over 900 cows. They raise and mix their own feeds and use an innovative manure processing system as part of their nutrient management program that recycles manure fibers into comfortable bedding. Moo Thru is a popular ice cream stop on busy US 29 that uses milk from Cool Lawn Farm.

## MAKE-IT-TAKE-IT WORKSHOPS

### **Tap & Die “Make It Take It”**

*Susan Hilleary, Fauquier High School*

This cold metalworking project is a good way to have students learn and practice skills with metal saws, the drill press, grinders, and tap and die. Teachers will leave with plans and a hammer hanger for their shop.

### **Wood I.D. Cutting Board “Make It Take It”**

*Jimmy Hisghman, Teaberry Hill Woodworks*

Teaberry Hill Woodworks is a family-owned business which sells affordable pre-cut shop project kits to Virginia’s schools and other businesses throughout the country. These kits are designed to assist shop teachers in teaching basic woodworking and metalworking skills at all levels from middle school to college. Teaberry Hill projects are designed with 5 principles in mind: Student Safety, Student Success, Teaching Skills, Affordable Cost, Saving You Time.

### **Electricity 101**

*Brandon Strosnider, Wilson Middle School*

This workshop will be both a “SHOCKING EXPERIENCE and a “hands-on” workshop. Participants will learn the basics of electrical wiring. This will include wiring switches, lights, and receptacles. Teachers will also learn to construct electrical boards to assist their instruction.

### **Indoor Plants for a GROWING Program**

*Sarah Jo Jones, Carroll County High School*

This workshop will provide new and innovative tips and techniques for growing what your program has to offer students as well as your school based enterprises. Ideas from this workshop may be incorporated into SAE for All in allowing students to work at school to acquire their Supervised Agriculture Experience.