



**Summer Professional Development Agriculture Teacher's Conference 2019  
NAAE Region VI/VAAE Industry Credentialing, Workshops & Miscellaneous**

**Monday, July 22 (Morning - Part I)**

<b>Part I</b>				
Time	Session	Presenter	Description	Location
8:30AM - 12:00 PM	<b>Workshop –</b> Beef Quality Assurance Training <i>(Note: Training will take place at the Virginia Tech Beef Center)</i>	Dr. Bain Wilson, Virginia Tech Assistant Professor Department of Animal & Poultry Sciences	The Beef Quality Assurance (BQA) Train-the-Trainer training will officially certify teachers to train students in the national certification program which is recognized by the VA Department of Education. The training will walk teachers through the program; provide them with helpful information regarding the certification as well as resources to be used in their classroom.	Virginia Tech Beef Center (Near Alphin-Stuart Livestock Arena) Plantation Rd, Blacksburg, VA 24060
9:00AM - 12:00PM	<b>Licensure Certification –</b> CPR, First Aid, & AED Training	Virginia Office of EMS Education Coordinator	Individuals who are not healthcare providers or professional rescuers but desire or are required to be certified in basic emergency medical care, including certification in CPR and the use of an AED should participate in this licensure certification training. This course can be used toward teacher recertification in the state of Virginia.	Blue Ridge Hotel and Conference Center
9:00AM - 12:00PM	<b>Workshop –</b> Curriculum for Agricultural Science Education (CASE): Plant Science	Sara Cobb, Professional Development & CASE Online Learning Coordinator – Region VI Coordinator	CASE program of study pathways are carefully designed to scaffold student learning within a course and throughout the pathway. Similar to all CASE pathways, the plant science pathway begins with the <i>Introduction to Agriculture, Food, and Natural Resources</i> course. Students then progress to the foundation level course, <i>Principles of Agricultural Science - Plant</i> . Next, students have the option to complete either the <i>Animal and Plant Biotechnology</i> or <i>Food Science and Safety</i> specialization level course. All CASE pathways culminate with a capstone course designed to culminate students' experiences in agriculture, based on the pathway of study they pursued. Join this workshop to learn more about the specific courses offered in the CASE plant science pathway.	Blue Ridge Hotel and Conference Center
9:00AM - 10:25AM	<b>Workshop –</b> Farm Credit of the Virginias (Ag Finance)	Sarah Scyphers, Knowledge Center Program Specialist	The Farm Credit of the Virginias is beginning a new 10 unit curriculum for the 2019-2020 school year focused on Ag Finance supplemental pieces. Talk with the Knowledge Center Program Specialist to determine the possibilities of including Ag Finance into your local program.	Blue Ridge Hotel and Conference Center
10:30AM - 12:00PM	<b>Workshop –</b> Farm Credit of the Virginias (Ag Finance)			
9:00AM - 10:25AM	<b>Workshop –</b> Sustainable Natural Resource Use Across Agricultural Systems	Clara Ervin, Virginia Tech PhD Candidate, Crop and Soil Science, Graduate Extension Scholar and Dr. Hannah Scherer, Virginia Tech ALCE Assistant Professor and Extension Specialist, STEM Education in Agriculture	This workshop will introduce a middle school natural resource module designed by graduate extension scholars in coordination with middle school science and agriculture teachers. The module focuses on integrating sustainability concepts into evaluating natural resource use across agriculture systems with connections to careers. The module contains in total four lessons ready for use.	Blue Ridge Hotel and Conference Center
10:30AM - 12:00PM	<b>Workshop –</b> Sustainable Natural Resource Use Across Agricultural Systems			



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**Monday, July 22 (Afternoon - Part II)**

<b>Part II</b>				
Time	Session	Presenter	Description	Location
1:00 PM - 5:00 PM	<b>Industry Credential –</b> Greenhouse Operators Training	Dr. Joyce Latimer, Virginia Tech Professor and Extension Specialist, Greenhouse Crops	This session will serve as a review and training for teachers interested in acquiring the Greenhouse Operators Certification. Testing for the certification will follow the review session.	Blue Ridge Hotel and Conference Center
1:00 PM - 5:00 PM	<b>Workshop –</b> Agricultural Mechanics “Make It & Take It”	Dr. Christian Mariger, Virginia Tech Biological Systems Engineering Department	No welding talent or experience required! In this Make-It, Take-It, we will have a hands-on agricultural mechanics welding project which has been custom designed by the certified and experienced trainer providing the workshop. All levels of experience are welcome!	Blue Ridge Hotel and Conference Center
1:30 PM – 3:00 PM	<b>Workshop –</b> Bovine Artificial Insemination Short Course	Nicholas Wege Dias, Virginia Tech PhD Student, Animal Science, Graduate Extension Scholar and and Dr. Hannah Scherer, Virginia Tech ALCE Assistant Professor and Extension Specialist, STEM Education in Agriculture	This workshop will provide participants with theoretical knowledge on the cow's reproductive anatomy and physiology and on the artificial insemination technique. Further, hands-on activities where participants are able to practice the technique and simulate palpation in a mannequin will be provided. Teachers will deepen their knowledge of cutting-edge AI techniques in order to improve classroom instruction.	Blue Ridge Hotel and Conference Center
1:30 PM – 3:00 PM	<b>Workshop –</b> Teaching with Humor	Dr. Gary Moore, Emeritus (Retired) Faculty, North Carolina State University and Professional Speaker	*In this presentation, the life of the circuit riding preacher will be examined along with true (typically humorous but not always) stories taken from the journals kept by these preachers.	Blue Ridge Hotel and Conference Center
3:15 PM – 4:45 PM	<b>Workshop –</b> Balancing Family & Work	Dr. Gary Moore, Emeritus (Retired) Faculty, North Carolina State University and Professional Speaker	In this presentation, Dr. Moore challenges the audience to examine their priorities and share 12 strategies for balancing life and work.	Blue Ridge Hotel and Conference Center
3:15 PM – 4:45 PM	<b>Workshop –</b> Thinking of Getting Your Drone License?	Mr. Dan Swafford, Virginia 4-H State Office & Project Associate	This workshop will help point the way for those teachers who are thinking about their FAA Remote Pilot License. (Part 107). Information will include what is covered on the Part 107 Remote Pilot exam and how and where to prepare for it. Instructors will be teachers who have taken and past the exam.	Blue Ridge Hotel and Conference Center



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**Thursday, July 25 (Morning – Part III)**

<b>Part III</b>				
Time	Session	Presenter	Description	Location
9:00AM - 11:45AM	<b>Industry Credential –</b> Category 10 Pesticide Applicators Training	Virginia Tech Extension Service	This session will serve as a review and training session for those interested in acquiring the Commercial Pesticide Applicators Licensure. Testing for licensure will follow the training session.	Lord Botetourt High School
9:00AM - 11:45AM	<b>Workshop –</b> Curriculum for Agricultural Science Education (CASE): Animal Science	Sara Cobb, Professional Development & CASE Online Learning Coordinator – Region VI Coordinator	CASE program of study pathways are carefully designed to scaffold student learning within a course and throughout the pathway. Similar to all CASE pathways, the animal science pathway begins with the <i>Introduction to Agriculture, Food, and Natural Resources</i> course. Students then progress to the foundation level course, <i>Principles of Agricultural Science - Animal</i> . Next, students have the option to complete either the <i>Animal and Plant Biotechnology</i> or <i>Food Science and Safety</i> specialization level course. All CASE pathways culminate with a capstone course designed to culminate students' experiences in agriculture, based on the pathway of study they pursued. Join this workshop to learn more about the specific courses offered in the CASE animal science pathway.	Lord Botetourt High School
9:00AM - 11:45AM	<b>Workshop –</b> Creating Videos as Teaching Tools: The Process Revealed through Examples from Dairy Science	Dave Winston, Virginia Tech 4-H Youth Dairy Extension Specialist; Carrie Ceh, Virginia Tech MS Student, Dairy Science, Graduate Extension Scholar; and Dr. Hannah Scherer, Virginia Tech ALCE Assistant Professor and Extension Specialist, STEM Education in Ag	The first part of the workshop will introduce participants to a series of original videos filmed for the purpose of supporting a specific lesson plan. The videos cover the basics of the Virginia Tech dairy farm by means of a virtual tour, the basics of how a robotic dairy operates, and an introduction to the wide array of careers in agriculture. This workshop will provide insight on how to utilize the videos and lesson plans to support student learning. The second part of the workshop will illuminate the process of planning for, making and publishing these videos on public channels with the goal of equipping participants, to create their own videos.	Lord Botetourt High School
9:00AM - 11:45AM	<b>Workshop –</b> Floriculture - Horticulture Tips & Tricks "Make It & Take It"	Sara Jo Jones, Agricultural Education Teacher and FFA Advisor, Pulaski Co. High School	No design talent or experience required! In this Make-It, Take-It, we will practice principles of design, talk about growing your own cut flowers, offering community workshops, and how to create a school based business. Walk away with a finished project guaranteed to bring joy to any environment.	Lord Botetourt High School
9:00AM - 11:45AM	<b>Workshop –</b> Friends of Infinity Acres Ranch	Laura Steere, Founder and Manager	Infinity Acres Ranch was opened in 2007 to provide educational animal interactive tours and the Alpaca/Llama 4-H Club was established. They have provided educational animal experiences through school, organizations and family tours as well as participating in exhibits at local events. Infinity Acres Ranch provides Day Support programs for adults with disabilities, veterans, school field trips, Llama 4-H summer camp, volunteer opportunities, petting zoo and parties, events and non-profit educational programs for youth and the community. Participate in a workshop where you will feel the love, discover the joy, and experience exotic and domestic animal interactions.	Lord Botetourt High School



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### Part III (Continued)

Time	Session	Presenter	Description	Location
9:00AM - 10:15AM	<b>Workshop –</b> Building a School Farm	Daniel Judkins and Jason Brittle, Windsor High School Agricultural Education Teachers and FFA Advisors	Judkins co-teaches each agriculture class with Windsor High School's agriculture teacher, Jason Brittle. During their tenure in Isle of Wight County Public Schools, Judkins and Brittle have had students successfully construct a school farm that features animals and plants. Too, the farm is not a certified organic operation, but Judkins and Brittle prefer not to use pesticides on foodstuffs, and he and Brittle have been trying to do everything as naturally as they can for safety reasons. Learn from this session how to grow the hearts and minds of your students and community through planning and executing a fully operational school farm.	Lord Botetourt High School
10:30AM - 11:45AM	<b>Workshop –</b> Building a School Farm			
9:00AM - 10:15AM	<b>Workshop –</b> Identity & Inclusion in Agriculture & Life Sciences	Dr. Donna Westfall-Rudd, Virginia Tech Associate Professor, Department of Agricultural, Leadership and Community Education	Join this workshop to discuss with peers the interactive relationship between identity formation and the sense of community for people engaged in agricultural and life sciences. Examine different perspectives of historical and cultural traditions within agricultural and life sciences, while, discussing the influence of power on diversity and social mobility of peoples engaged in agricultural and life sciences.	Lord Botetourt High School
10:30AM - 11:45AM	<b>Workshop –</b> Identity & Inclusion in Agriculture & Life Sciences			
9:00AM - 10:15AM	<b>Workshop –</b> NATAA Lab-Aids, Inc. – Phase I	Dani Hodges, National Agriscience Teacher Ambassador – Agricultural Sciences Teacher and FFA Advisor, Appomattox Middle School & Herb Hoffeditz, National Agriscience Teacher Ambassador – Agricultural Education Teacher and FFA Advisor, Broadway High School	The National Agriscience Teacher Ambassador Academy (NATAA) has over 15 years of successfully cultivating agriscience and inquiry-based learning in agricultural education. The Academy serves to train agriculture teachers on how to enhance the science that is already present in agriculture, as well as develop students as problem solvers and thinkers through the inquiry-based teaching method. Through NATAA's partnership with Lab-Aids, who has exclusively worked in the field of hands on, inquiry-based secondary science education for 55 years, learn in this workshop ways to increase rigor and relevance as you yield high results in STEAM education through agricultural education instructional lessons.	Lord Botetourt High School
10:30AM - 11:45AM	<b>Workshop –</b> NATAA Lab-Aids, Inc. – Phase II			

### Monday, July 22 (10:00am – 11:30am)

#### [The Virginia Museum of Transportation](#)

The Roanoke Transportation Museum, originally formed as a partnership of the Norfolk & Western Railway and the City of Roanoke, first opened its doors in 1963 in Wasena Park along the Roanoke River. Although all modes of transportation were represented, the Museum focused on telling the story of Roanoke's rich rail heritage. In 1976, a private non-profit corporation was established to operate the Museum, and in 1983 the Museum was designated as the Official Transportation Museum of the Commonwealth of Virginia. Subsequently, the Museum was renamed the Virginia Museum of Transportation. Today, the Virginia Museum of Transportation welcomes guests from across the nation and around the world. The mission of the Virginia Museum of Transportation is to advance all modes of transportation across the Commonwealth, to celebrate and preserve the hard work and ingenuity of generations past, and to inspire current and future generations to value this industry which is essential to Virginia's history, culture, and economic growth. Collections include rail, road, air, ships and in-kind and artifacts donations. Please note, the museum is large and much of the collection is outdoors. It is recommended comfortable walking shoes and clothing appropriate for outdoor temperatures.