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2022 NAAE Convention

Professional Development Workshops

Updated August 8, 2022

Leading and learning together. Experience the magic of peer-led professional development by engaging in professional development workshops at the 2022 NAAE Convention. Workshop locations, dates, and times along with additional workshops will be added to our [Convention Schedule](#) in the weeks to come.

The Crossbred Cow Lab: Discovering Cattle Genetics

National Agriscience Teacher Ambassadors: Corrine Wascher, Laura Allen, Shelby Lee, Jennifer Hamlin,

Need an engaging way to introduce (or use) EPDs and cattle genetics? What if your students could select bulls and cows, and get results of the pairings? Get ready to experience and leave with this new inquiry activity where your students can not only learn about cattle genetics but also ‘discover’ a well-researched and documented genetic phenomenon found in crossbreeding cattle!

Misconceptions of Organic: Investigating Pesticides in Organic Agriculture

National Agriscience Teacher Ambassadors: Kayla Pohle, Tori Poole, and Marc Gauthier

Can we determine if produce is organically grown by testing for chemical residue? In this new simulation activity, get hands on as you test apple samples for ‘pesticide residue’ to determine if they can be marketed as organic. Before your students are done, they will investigate different pesticides and address major misconceptions about organic and conventional production. Warning: plot twists ahead!

Future Ready Workforce: Preparing Students for the Global Economy through Agricultural Education – Teacher and Student Resources.

Heather Singmaster & GTAN Team Members, Global Teach Ag Network, University Park, PA

Would you like to add global content to your classes but feel like you don't have enough time or resources? This session will help you feel less overwhelmed by sharing a framework, global project ideas, and free tools – including online professional development modules – to get you started on global agriculture integration in your program. We will be reviewing the Global CTE Toolkit from Digital Promise and ACTE. This toolkit includes: sample projects ready to be used in CTE classrooms, global career planning resources, workforce readiness rubrics, crosswalks of global education and CTE standards, global career profile videos, talking points, and more. This workshop is part of the pathway on global learning in agriculture curated by the Global Teach Ag Network for NAAE. Four total workshops are offered with topics that include frameworks; teacher development resources; student engagement opportunities, and immersive experiences. This session offers educator professional development resources for global integration.

Idea Sharing for State Leadership: Conferences, Workshops, Member Involvement, Social Activities, Awards and Committees.

Roger King, WAAE – Wisconsin Association of Agricultural Educators, Fall Creek, WI

Dan Ziegler, State Leader Wisconsin, Sun Prairie, WI

Troy Talford, Sauk Prairie Agriculture Teacher, Prairie du Sac, WI

Kathy Hartmann-Breunig, WAAE Executive Director, Prairie du Sac, WI

Looking for new Ideas for your State Organization. Have you wondered how other States built the best Professional Organization this workshop is for YOU. Each State has some great Leadership and Organizational "Things that work" – well it's time to share – Bring your best Ideas and be part of the discussion to building a Better State Professional Organization.

Protecting Our Next Generation: Empowering safety and health superheroes throughout local communities, schools, and inside the classroom.

Jana Davidson & Susan Turner, Progressive Agriculture Foundation, Birmingham, AL

From livestock to agricultural machinery, statistics reveal that about every three days a child dies due to an agriculture-related injury, and each day, at least 33 children are injured. Most sobering is that many of these incidents could have been prevented with safe practices in place. Therefore, the Progressive Agriculture Foundation® is on a mission to provide education, training, and resources to make farm, ranch, and rural life safer and healthier for all children and their communities. As the largest rural safety and health education program for children in North America, Progressive Agriculture Safety Day® programs offer age-appropriate, hands-on education delivered in a fun, safe manner. Discover three unique program delivery modes to assist in shaping positive behaviors and facilitating safer and healthier decision-making skills.

Ready to Show Off? New Program Management Reports in AET to Blow the Socks Off Your CTE Leadership!

Roger Hanagriff, The AET/Texas A&M, Richards, TX

New reports in AET can really help you share some cool information as well as assist you in better managing your program. The reports are divided into three main sections which are classroom success (Freshman retention, Senior Completers, etc..) FFA engagement (% of students in LDE/CDE, community service, etc..), and SAE involvement of your students (% Foundational, % Immersion, comparisons by grade, etc..). Also, an additional measure is to look at new program parity comparisons with your school demographics and more...see how well you connect to your school! These reports can be valuable as you share results with your administration and showcase the qualities of your program or locate aspects that need improvement and build strategies to help improve those areas.

Changing the Conversation About Agriculture – One Person at A Time

Aimee Hood, Bayer, St. Louis, MO

We each have an opportunity to tell our story about agriculture each day in many ways. In this session, resources and background on popular agricultural topics will be offered, ideas on how and when to tell your story will be shared, and story sharing will be demonstrated.

Interdisciplinary global learning utilizing the UN Sustainable Development Goals Framework–Exploring Global Food Security

Daniel Foster & Melanie Miller Foster, Global Teach Ag Network, University Park, PA

Global Food Security. Three words that can have many different meanings and are not the purview of any singular subject area. This workshop will introduce the concept of global food security and will allow participants to collaborate in small groups to identify cross-curricular classroom opportunities. In addition, existing resources, and educator communities will be highlighted and shared. Participants will leave with a tangible framework to help evidence the contribution of their school-based agricultural education program to critical current global issues. This workshop is part of the pathway on global learning in agriculture curated by the Global Teach Ag Network for NAAE. Four total workshops are offered with topics that include frameworks; teacher development resources; student engagement opportunities, and immersive experiences. Each workshop in the pathway is a stand-alone session. This workshop will assist educators in using frameworks for organizing programmatic global engagement.

I wasn't trained for this!: Strategies for working with students with special needs
Kristin Stair, Louisiana State University, Baton Rouge, LA

In agricultural education, we are often asked to work in increasingly diverse classrooms. But how can agricultural teachers effectively include students with special needs when they are being required to work with so many different types of learners in so many different environments? This workshop will cover basic information about the different types of disabilities, your legal responsibilities as a teacher, differences between IEP's and 504 plans, and will discuss ways to modify your classroom activities to meet the needs of these learners.

AET's Market and Livestock Managers...A Better Way to Track Animal SAEs!
Roger Hanagriff, TheAET/Texas A&M, Richards, TX

Livestock SAE(s) are the #1 SAE project area across the country, and the most complex entrepreneurship SAE to manage. This workshop will focus on how your students can use AET's Livestock Managers (Market & Breeding) to better track their SAEs! AET's Market Mngr. easily tracks animal weights, vaccinations, pounds of feed fed to calculate gain per lbs./day, and more, and if animals are potential breeding replacements, this manager can transfer them into your breeding herd SAE and track the appropriate value. Also, we will cover how to use AET's Breeding Livestock Manager, which allows you to track vaccinations, vet visits, and managing offspring and track their sales or transfer them into a new SAE. This workshop will share new AET guides to use with your students!

No Regrets: How to Balance Your Professional and Personal Life
Gary Moore, North Carolina State University, Cary, NC

At my wife's funeral the mourners said she was too young to die. I agreed. She was too young to die, but you can't bargain with cancer. Even though I was not ready for her to die, there were NO REGRETS because early in our professional careers we had learned how to balance our lives and manage our priorities. We had raised a beautiful family, traveled extensively, and played a lot but we both had successful award-winning teaching careers. Research shows agriculture teachers work an average of 55 hours a week and are often frustrated trying to balance work and family. In this workshop twelve time-tested, researched-based strategies will be shared that will help agriculture teachers manage their careers and personal life.

SAE for All: Teacher Resources and Training to Build Student Foundational Skills

Matthew Eddy, Iowa Department of Education, Des Moines, IA

Melanie Bloom, Sioux Central High School, Sioux Rapids, IA

This session will provide an overview of a grant project funded by USDA NIFA to train secondary agricultural education instructors in how to best teach foundational skills like record keeping, personal finance, and agricultural business to be applied with students and their supervised agricultural experience (SAE) programs.

AgEd for All: Addressing Diversity & Inclusion in the Agriculture Classroom

Daniel Derlcher, Essex County Schools of Technology, West Caldwell, NJ

Amarilys Olivo, Essex County Schools of Technology, West Caldwell, NJ

Diversity, Equity, and Inclusion is not just a focus in schools but in the workplace as well. Attendees will leave understanding the complexity of diversity, equity, and inclusion; recognize how their unconscious biases can make an impact in their classroom; learn Inclusive Best Practices for the Agricultural Education classroom; and gain resources to make their classrooms a more inclusive space. Our presenters and attendees will share and discuss their experiences working in diverse classrooms regarding their successes and challenges. Ensuring that every student has the opportunity to participate in the Ag Ed classroom is not just the job of an individual but the village of CTE.

What we know about early career teachers and the mentoring support they need from teacher leaders.

Brandie Disberger, Kansas State University, Manhattan, KS

Let's answer the hard questions! How can we best support early career agriculture teachers? Based on a three-year qualitative study following beginning teachers we learned about the mentoring support needed by early career agriculture teachers. Who do they use as mentors? What do they need from their mentors? How can we establish a positive mentorship relationship for all individuals involved? This workshop will share research based best practices and provide time to discuss and plan strategies that will work in your state!

Food Allergens: Verification and Validation of Food Allergen SSOPs

John Bergin, Curriculum for Agricultural Science Education (CASE), Topeka, KS

Do you teach food science? Do you have students in your classroom with food allergens? Come check out a model lab from CASE Food Science and Safety (FSS) and learn how the industry monitors equipment for food allergens.

Ag Tech Prep: Connect with industry to strengthen your agricultural mechanics program.

Carl Aakre, Curriculum for Agricultural Science Education (CASE), Perham, MN

The National Science Foundation has funded the Technical Applications in Agriculture curriculum with industry support from the Association of Equipment Manufacturers and Associated Equipment Distributors. Learn about curriculum and professional development opportunities for integrating curriculum that includes power mechanics, precision agriculture, electrical controls, and hydraulics into your classroom. In addition, discover how you can use the curriculum to connect your students with industry and career opportunities.

Raising the Bar: Elevating Your Program Social Media

Kisia Weeks, White Hall High School, White Hall, AR

In this interactive workshop you will take a deep dive into the importance of advocating for your program via social media, how to ease the burden of managing multiple accounts, and elevating your programs online presence by learning how to "hack" the algorithm. Join me in analyzing real life examples from across the nation, brainstorming ideas to elevate your chapter, and take away a concrete action plan for social media success.

A National Summary of Ag. Education Program Metrics to Share! Get your National Program Metrics Sheet and See How Your Program Compares!

Roger Hanagriff, The AET, Richards, TX

This short workshop will share a national summary of program metrics from over 4,000 ag education programs and share program mean values as well as confidence interval values to help show a likely range of results. We will review each area and share details as well as get your copy of the 2021-22 metric sheet. Topics will include freshman retention in the classroom, senior completers, and more classroom metrics. A second section will be FFA activities and share values such as percent of student engagement and values by grade as well as FFA parity values compared to the program. Finally, a section will share typical SAE results such as percent SAE values of Foundational and immersion SAEs as well as program demographic engagement in SAEs. See how you compare to the 2021-22 fact sheet!

Fighting Food Insecurity as a school and NOT by hosting a food drive!

Amanda Reid, Concordia FFA Chapter, Concordia, MO

Martha Schreiman, Santa Fe FFA, Alma, MO

Brooke Swindler, Carrollton FFA, Carrollton, MO

How can we help our students that experience food insecurity and allow them to help others even though they don't have the resources? Over the last four years we have packed over 124,000 meals and we are a small rural school. But we have created more ways to fight food insecurity that is more than meal packing and they have worked well. We do no canned food drives as many of our students could not participate. Come gather ideas or share what works for your community. You will leave with concrete ideas you can implement with little to no cost for your chapter.

Vet Tech Urine Checks

National Agriscience Teacher Ambassadors: Kendall Gonzalez, Corey Allenman, Matthew Price, and Christy Reynolds

Come explore the role of vet techs and how they protect animal's health through conducting basic urinalysis tests. This simple activity walks your students through a hands-on simulation of five common procedures. A great activity that can be used to enhance your vet science course and CDE.

Survey Says! The Public's Perceptions and Misconceptions of Agriculture

National Agriscience Teacher Ambassadors: Jeremy Hall, Amanda Ferguson, Tiffany Bushman and Ly Boren

Today's public have many misconceptions about their food and agriculture. Unless we know what these misconceptions are and why they have them, we can't solve it! In this activity, students will be surveying 'the public' about their perceptions of agriculture – all in your classroom.

#NextNorm: Harnessing the innovation of your students to address Global Food Security.

World Food Prize Foundation Staff & GTAN Team Members

Do you have the #NextNorm in your class right now? Norman Borlaug was a Nobel Peace Prize Winning Plant Scientist who is credited with saving a billion lives through his work with the green revolution. He helped establish the World Food Prize Foundation in Des Moines, Iowa. One of the primary missions to support youth engagement. Each year, the World Food Prize Youth Institutes convene high school students, teachers, and experts to explore and solve local, national and global hunger and food security issues. To apply to the Institute, students research and write a paper on a global challenge related to hunger and food insecurity. Come learn more about how your program or state might connect with the World Food Prize Youth Programs. This workshop is part of the pathway on global learning in agriculture curated by the Global Teach Ag Network for NAAE. Four total workshops are offered with topics that include frameworks; teacher development resources; student engagement opportunities, and immersive experiences. Each workshop in the pathway is a stand-alone session. This workshop will assist educators in identifying specific student engagement opportunities and programs for advancing global learning.

Navigating Time Constraints with National FFA Educator Resources

National FFA Teacher Ambassadors:

Kasey Naylor, Sam Rayburn High School, Ivanhoe, TX

Breanna Pastir, South East Region Career and Tech Center, Wahpeton, ND

As teachers, we spend a lot of time developing materials for our classrooms that prevent us from focusing on other important parts of being a teacher, like self-care. Through this workshop, learn about free turn-key resources from National FFA.

***Journey 2050: Engaging Students in World Food Sustainability-
Tessa Matuszak, Nutrien Ltd./National Agriculture in the Classroom, Lexington,
SC***

Chloe Sprecker, Nutrien Ltd., Alberta, Canada

Journey 2050 is a free, curriculum-based program that engages students in grades 7-12 in discussions about sustainably feeding the world's growing population. This free, seven-level program, which includes a virtual simulation game, meets educational standards for science, geography, social studies, STEM, career and technical education, and agriculture classes. Lesson topics include sustainability, soil, water, economics, geography, culture, careers, and technology in agriculture. Up to seven hours of programming, everything is provided! The program is accessible through teacher lesson plans, student-led options, and guest speaker presentations (available in select US locations). Download Journey 2050 from the AppStore, Windows Store or Google Play before the workshop on your own device and bring if possible, to play along. Learn more at www.Journey2050.com.

Using the Nearpod platform to increase active online engagement

Dustin Perry, Montana State University, Bozeman, MT

Michael Pate, Utah State University, Logan, UT

Rebecca Lawver, Utah State University, Logan, UT

Scott Smalley, Iowa State University, Ames, IA

As requests for more online learning engagement activities increase, educators are having to expand their toolboxes more so than ever. This workshop hopes to ease that burden by providing attendees with a series of pre-developed agricultural safety modules. Offered through Nearpods, this online student engagement platform allows students to work together or independently through interactive lessons that can incorporate activities such as polls, 3-D tours, embedded videos, drawings, etc. This workshop will offer insight into how best to utilize the platform as an instructional technique to facilitate learning groups and ensure active engagement in an online environment.

Creating a research based early career agriculture teacher support program for YOUR state.

Brandie Disberger, Kansas State University, Manhattan, KS

How can we best support early career agriculture teachers? Based on a three-year qualitative study following beginning teachers we learned about the experiences of early career agriculture teachers. What challenges do they experience? What successes do they experience? What can teacher leaders do to help foster early career teachers in your state? This workshop will share research based best practices using a case study of the Beginning Teachers Support Team (BEST) program in Kansas. Then, we will put this information to work by providing time to discuss and plan strategies that will help early career teachers thrive in your state. Help break the teacher turn-over cycle by investing in the development of the early career teachers and leave with a plan customized to your state.

Where do I go from here? Working with individuals who may be at risk for suicide

Dr. Rebekah Epps, University of Kentucky, Lexington, KY

Dr. Kristen Stair, Louisiana State University, Baton Rouge, LA

Dr. OP McCubbins, Mississippi State University, Starkville, MS

One person dies by suicide every 11 minutes (CDC). Death by suicide is the third leading cause of death for young people aged 10-14 (CDC). As teachers, many of us work with individuals who may be at risk of suicide. In this workshop, participants will briefly discuss some of the risk factors and signs of individuals who may be at risk of suicide and will focus on how to have difficult conversations with those individuals. This workshop will also help participants identify national and local resources that can help individuals and provide support for suicide prevention.

Fostering rigorous agriscience research projects through inquiry-based learning

Hannah Parker, Ohio State University, Columbus, OH

Dr. Kellie Claflin, Ohio State University, Columbus, OH

Colby Gregg, Ohio State University, Columbus, OH

This session will take teachers through the process of facilitating agriscience projects with their students. Diving deeper into inquiry-based learning has transferrable skills to student projects that can lead to increased rigor within the agriscience classroom, provide alternative opportunities for student SAEs, and potentially foster participation in agriscience fairs. Teachers in this session will work to identify the hurdles they face in teaching student-led inquiry projects to individual students or entire classrooms. Emphasis will be placed on the "pre-work" to the agriscience project - the problem, literature review, research design, and the "post-work" of formulating discussions that weave together both student findings and existing knowledge.

Activate the Curriculum: Instructional Strategies to Energize Learning

Mandy Green, Goodheart-Willcox, Tinley Park, IL

Explore easy, ready-to-use ideas and strategies to energize your classroom, increase student engagement and allow learners to interact with the content in multiple ways. Practice these interactive strategies to engage, explore, explain, and extend learning across any CTE discipline as you model student choice by delving into content applicable to your program.

Using Technology in the Classroom to Engage Agriculture Students about the Dairy Industry

Michelle Shearer, Center for Dairy Excellence Foundation, Harrisburg, PA

Over the last two years, we have seen how technology can be used in student learning to bring experiences and learning to students in and out of the physical classroom setting. Various free technologies such as Quizizz, Quizlet, and Kahoot! can be used to engage students and assess student learning about most concepts and skills. This session will discuss the key points of the technologies, Quizizz, Quizlet, and Kahoot! and show an application of each which will engage agriculture students about dairy in the classroom. In addition, this session will introduce you to a free program of dairy and agriculture curriculum and resources you can use in your agriculture education classroom.

Grants for Growing

Lexie Gamble, Tractor Supply Company, Brentwood, TN

Teaching how to apply for Grants for Growing and sharing success stories.

Let it go..... Let it go..... Elsa was onto something, Ag teachers!

Melanie Block, Ravenna High School, Ravenna, MI

Ag teachers have high standards, and we all know that there is one way to do things: the RIGHT way, which is also known as OUR way! I'm here to tell you, you've got to let it go. The need for perfection, the need to control it all... because life is going to hit you unexpectedly someday. In a case of "if it's not one thing, it's another," in the middle of a global pandemic, I was diagnosed with cancer. I could have panicked about everything my students would miss out on, but because of the FFA Alumni and community support I had in place, the program never missed a beat. Learn how to let it go before you are forced to do so!

Strategies for Success! Preparing for the National Chapter Award Program

Emily Manuel, Oklahoma State University, Stillwater, OK

This workshop will focus on four important themes that will help you prepare a National Chapter Award application. The themes: planning & resources, implementing activities, application writing, and reflecting will be shared in a practical way that will allow for immediate impact on your chapter.

Future of Work – Generation Z & Beyond

Jennifer Overholt, BASF Agricultural Solutions, Durham, NC

GenZ is changing the workplace. How we prepare this next generation for the workplace and vice versa will determine future success.

Small Gas Engines: Teaching Fuel Systems

John Bergin, Curriculum for Agricultural Science Education (CASE), Topeka, KS

Fuel systems are the highest frequency correction completed by technicians. How do we teach the process of carburetors? What impacts the air-to-fuel ratio? Come check out some tips and look into a turn-key CASE curriculum for teaching small gas engines.

Innovative Approaches to Teaching STEM in Agricultural Mechanics

Christopher Eck, Oklahoma State University, Stillwater, OK

Nathan Smith, Oklahoma State University, Stillwater, OK

Innovative approaches to teaching STEM in agricultural mechanics will be an action-oriented idea exchange for agricultural education teachers to discuss best practices and develop new ideas to further their agricultural mechanization programs. Teachers should come prepared to share past successes and failures to help establish an open discussion on the integration of STEM in their agricultural mechanics programs. Teachers without previous experience who have an interest in the topic are also encouraged to attend. This will be a great opportunity for early-career teachers to gain valuable STEM ideas and develop mentoring relationships. Teacher educators will facilitate the discussion and share experiences and ideas to further the professional development of teachers and provide future opportunities for continued growth.

No More Mess! Making Interactive Notebooks Digital

Ryan Best, Oklahoma State University, Stillwater, OK

Do you love Interactive Notebooks but hate the mess of cutting, folding, gluing, and coloring? It's time to make those notebooks digital! Incorporating Digital Interactive Notebooks (DINs) into your classroom is clean, simple, time efficient, and, most importantly, impactful for students. DINs allow student notes, activities, and worksheets to be in a single place and accessible from anywhere. Paired with an effective Learning Management System such as Canvas or Google Classroom, DINs become a powerful tool for teaching.

Have you HERD? Urbanized SAE for all, it's UDDERLY amazing!

Hannah McFauls, Lebanon High School, Lebanon, IN

Logan Everett, Lebanon High School, Lebanon, IN

Tired of your traditional summer SAE visits? Having an issue engaging students beyond work experience? Join us in exploring unique opportunities to engage urban students in summer SAE. Our goal is to bring industry experience trips, community service, and real world agricultural work to urban agriculture students. Takeaway our Summer SAE Manual and implementation strategies to set this program into action! Our summer SAE program continues to engage students year after year in exploring opportunities in agriculture, food and natural resources.

Interactive Notebooks and Foldables for Ag Classes

Cassandra Goff, Centennial High School, Las Cruces, NM

Kendall Gonzalez, Mayfield High School, Las Cruces, NM

Join us to see how to integrate foldables and interactive notebooks into your classroom. We will have example notebooks to view and hands on examples for you to take home with you.

Is your Hat Rack Overloaded? Would Sharing the Load Help? Volunteers may be the Answer!

Jon Ramsey, Oklahoma State University, Stillwater, OK

Leading and managing a comprehensive agricultural education program requires teachers to wear a variety of hats i.e., take on numerous roles and responsibilities. Many of these roles requires some level of experience or expertise that may inadvertently cause stress and anxiety for teachers. This workshop will highlight strategic ways to integrate volunteers into a comprehensive agricultural education program.

Interactive Swag- Creating a memorable experience while marketing your program.

Jodi Riedel, North Carolina State University, Raleigh, NC

Ever wondered why you invest in so much swag when there's a chance it will just be thrown away? Will a potential student really consider your program because you gave them a sticker or a pen? Whether you are at a university or in a public school, teachers are all in it together when it comes to recruiting for future. In this workshop, create some incredible pieces of swag that helps students to participate in an authentic conversation while also using a variety of senses. When participants create their interactive swag they will develop a lasting memory of this workshop that will lead to the construction of their own interactive swag.

This Ain't Your Granddad's SAE: Successfully Implementing Foundational SAEs into Your High School Curriculum

Jay Solomonson, Illinois State University, Normal, IL

Corinne Batterman, Manteno High School, Manteno, IL

Have you struggled to get 100% of your agriculture students to have a quality SAE project? Or how to teach all students how to keep records when their projects are so diverse? Maybe you are just looking for fresh ideas on how to implement SAEs in your program? Foundational SAEs can help in all of these areas. In this workshop, we will discuss the 3 different Foundational SAE levels that students can carry out for one year or all fours of high school. At the conclusion of the workshop you will be given 4 years worth of materials that can be easily incorporated in your classroom the very next day.

Biofuels are the answer to Lower Our Carbon Footprint and Increase Economic Success across Agriculture

Kelly Manning, Growth Energy, Washington DC

Instructor will outline the initiatives and policies being executed by advocacy groups, businesses and farmers across the Country that will have significant impact on sustainability. Climate change is on everyone's mind and what are folks doing about it.

RFID Livestock Tagging: Teaching the Tech Behind the Tag

John Bergin, Curriculum for Agricultural Science Education (CASE), Topeka, KS

A foreign animal disease (FAD) outbreak can be managed through livestock traceability. How do the tags work? What is the technology behind them? The process of ear tag traceability can be modeled using low-cost technology. Come check out the process and leave with ideas for implementation.

Gamification in Ag Mechanics

James Mosman, Lincoln Electric, Cleveland, OH

This workshop will discuss innovative ways to implement welding education in a fun and positive experience. Through advanced technology, virtual reality and more.

Agriculture and The Culture of Suicide

Rebekah Epps, University of Kentucky, Lexington, KY

Grace Miller, University of Kentucky, Lexington, KY

Eric Moser, University of Kentucky, Lexington, KY

Dallas Cooks, University of Kentucky, Lexington, KY

Rural Americans are at a greater risk of death by suicide than their urban counterparts. According to the CDC, it is the second leading cause of death in people ages 25-34. Participants in this workshop will quickly be able to identify the various cultures that affect the multifaceted reasons people chose death by suicide. A greater understanding of the cultures can lead to prevention.

***Have a Life Outside the Classroom AND Run a Rigorous, Successful Ag Ed Program
- It's Possible with CASE!***

Jessie Lumpkins, Curriculum for Agricultural Science Education (CASE),

CASE Award Winner

CASE Award Winner

Are you looking to add innovative approaches to your agricultural education program but don't know where to start? Are you interested in raising the quality of your program while maintaining a healthy work-life balance? Are you interested in how teachers are implementing CASE courses and infusing inquiry-based learning and enhancing STEM in their classrooms? CASE Model School award winner and CASE Innovation award winner will share their experiences.

***Finding Your Fit: Understanding the Importance of Connectivity as an
Agricultural Educator***

Emily Sewell, Oklahoma State University, Stillwater, OK

Dr. Chris Eck, Oklahoma State University, Stillwater, OK

It is no secret that teaching agricultural education requires skill when it comes to juggling the many facets of the job. Not only are you balancing the Three-Circle Model, but you are also balancing responsibilities within your school district, community, family, and professional organizations. Depending on your juggling success, these categories could "make or break" your desire and drive to #TeachAg. Knowing this, how do we collectively ensure all teachers have the support and capacity to find a balance in their current employment situation? Connectivity and "fit" have been identified as critical components to job satisfaction and retention within our profession. This workshop will be focused on recognizing struggles, identifying support, and designing strategies to help you create balance in your personal and professional life.

AETWeb: Data driven chapter website that easily promotes what your program is doing! A simple setup

Russell Ewell, The AET, Richards, TX

This short workshop will share a national summary of program metrics from over 4,000 ag education programs and share program mean values as well as confidence interval values to help show a likely range of results. We will review each area and share details as well as get your copy of the 2021-22 metric sheet. Topics will include freshman retention in the classroom, senior completers, and more classroom metrics. A second section will be FFA activities and share values such as percent of student engagement and values by grade as well as FFA parity values compared to the program. Finally, a section will share typical SAE results such as percent SAE values of Foundational and immersion SAEs as well as program demographic engagement in SAEs. See how you compare to the 2021-22 fact sheet!

Water Pollution and Run-off: Who's fault is it?

National Agriscience Teacher Ambassadors: Ruth Ann Myers, Amy Kidd, Katelyn Dei, and Desi Severance

The issues of water pollution and run-off can be seen across the country. But who is at fault here? In this lab, get ready to dive in and investigate just where the nitrates and phosphates are coming from that are polluting Jaffrey Lake. An excellent inquiry-based approach to get students thinking about sources of point source and non-point source pollution and ways to solve it!

Bitter or Better? Eight Steps to Becoming a Resilient Teacher.

Gary Moore, North Carolina State University, Cary, NC

Dr. Wendy Warner, North Carolina State University, Cary, NC

More than one agriculture teacher has said the past several years have been very trying. Covid-19 presented many challenges to teachers, and the challenges still linger in many schools. However, there were similar challenges during the 1930s because of the depression and Dust Bowl. Many teachers were paid in worthless scrip but still worked to help the farmers and their children. In this presentation, we look at the hardships experienced by agriculturalists during the depression/dust bowl era and the novel ways in which they coped. We then compare that with the aftermath of Covid-19 today and conclude with a discussion of the eight characteristics of resilient leaders as identified by the Center for Creative Leadership. There is hope. Things will get better. Let's not be bitter.

Active Learning Strategies for the Ag Classroom

Dr. Kellie Claflin, Ohio State University, Columbus, OH

Hannah Parker, Ohio State University, Columbus, OH

Colby Gregg, Ohio State University, Columbus, OH

Do you feel like you are in a teaching rut? This workshop will provide ready-to-use strategies to incorporate active learning in your classroom no matter the content. Participants will walk away with teaching strategies to use to introduce ideas, review, and more.

CDE/LDE Classroom Resources 101

National FFA Teacher Ambassadors:

Shelby Ball, Avon Park High School, Avon Park, FL

Jason Ferreira, Hanford High School, Tulare, CA

Interested in learning how you can teach about various CDEs/LDEs in your classroom (such as Employability, Floriculture, etc.) while preparing students for the competitive events? Learn from National FFA Teacher Ambassadors how to teach the skills in the classroom.

Building a better tomorrow - How one school is planning for the future of agricultural education

Melanie Block, Ravenna High School, Ravenna, MI

Kera Howell, Ravenna High School, Ravenna, MI

Justin Wilson, Ravenna High School, Ravenna, MI

Greg Helmer, Ravenna High School, Ravenna, MI

How can administrators and ag educators come together to build a better future for agricultural education? How do you build those relationships? How can we ensure that all of our hard work as ag educators won't go down the drain when we retire? Join the Ravenna Public Schools administration team and agriscience educators to hear how they are planted in promise and growing in pride!

"I don't care about my grades"; Understanding and motivating learners who are not externally driven

Rebecca Mott, University of Missouri, Columbia, MO

Dr. John Tummons, University of Missouri, Columbia, MO

Students with an autotelic personality style may appear to be free of personal goals and ambition, making them a challenge to motivate in a traditional school setting. However, upon closer inspection teachers can see that the autotelic student has endless energy for his/her specific passion (ie. mechanics or livestock), but may appear to have no energy at all for other areas of life. This becomes very apparent in the school setting, where typically an authority figure is pushing them toward goals they don't care about. This action-filled workshop will equip teachers with deeper knowledge and understanding about students who are not externally motivated and help them view these students in a positive light. Teachers will walk away from this workshop with new skills to assist with management of their own classrooms.

Filling the Shoes of a Legend With a Legend.

Scott Stone, Centralia High School, Centralia, MO

Krista Pointius, Greenwood School District, Greenwood, PA

Have you walked into new program to hear the famous words, that is not how Mr. or Mrs so and so did it? These words often haunt teachers. This workshops will focus on building on the past success while creating a new legacy for you and your program.

Implementing a self-sustaining floral design program.

Amanda Rodriguez, Santa Maria High School, Santa Maria, CA

Sara Araujo, Santa Maria High School, Santa Maria, CA

The purpose of this workshop is to share ideas that have been successful within floral design programs. We will be sharing resources, curriculum, fundraiser ideas and best practices.

Photosynthesis & Respiration – It's a Plant's Life!

National Agriscience Teacher Ambassadors: Matthew Bernia, Samuel Hoffman, and Amanda Haeberlin

Help your students sprout and grow with a different approach to teaching photosynthesis and respiration. Learn how to captivate students through inquiry activities that will challenge and excite them. Easily implement activities into your current horticulture or plant science class.

Press your Luck: My Local Cooperatives

NAAE Facilitators

Will your business become a great success? Will you be able to make the most sound financial business decisions? Find out if you will make the right choices towards success in the My Local Cooperative Workshop. The National Association of Agricultural Educators is working in partnership with the CHS Foundation to offer a series of workshops on Cooperatives. Gear up to fully immerse yourself in the cooperative business model. Be prepared to offer engaging and informational instruction on the cooperative business model, the impact of cooperatives on the community and cooperative career opportunities. This is a workshop that continues to keep on giving as you can apply for a \$100 grant and receive a complimentary co-op in a box (\$100 value).

Bring the World to You! Immersive global learning experiences without leaving your school.

Dr. OP McCubbins,

GTAN Faculty

Mississippi State University

Dr. OP McCubbins is nationally renowned for his understanding and advancement of immersive technologies and how they can be utilized pragmatically in a secondary school-based agricultural education program. Come learn about existing technology to help bring the world to your students through effective immersive experiences. This workshop is part of the pathway on global learning in agriculture curated by the Global Teach Ag Network for NAAE. Four total workshops are offered with topics that include frameworks; teacher development resources; student engagement opportunities, and immersive experiences. Each workshop in the pathway is a stand-alone session. This workshop will assist educators with specific pedagogical tools for integrating global concepts systematically in a program.

Increasing Agriculture Teacher's Awareness of Suicide Warning Signs and Farm Stress

Chaney Mosley, Middle Tennessee State University, Murfreesboro, TN

Dr. Jon Ramsey, Oklahoma State University, Stillwater, OK

Dr. Andy Seible, Virginia Tech, Blacksburg, VA

Dr. Dale Layfield, Clemson University, Clemson, SC

A survey of school-based agricultural educators in the southeastern United States revealed that 21% of those in the profession have contemplated suicide. This could be your teaching partner, a teacher from a neighboring school who also farms, or even you. We are all susceptible to stress which can contribute to depression - the leading cause of suicide in the United States. In this workshop, we will explore aspects of working in the agriculture industry that can cause stress, identify warning signs that could indicate if someone is contemplating suicide, and consider how this enhanced knowledge can better prepare agriculture teachers to intervene. After considering information, a question and answer session will be held for all participants to address areas of concern or confusion.

Simulated Workplace: How can we make it work teaching students to work?

Andrew Hauser, Glasscock County ISD, Garden City, TX

Terry Hauser, Preston County High School, Kingwood, WV

Participants will be able to define simulated workplace and its benefit to the classroom. Participants will be able to identify pros and cons of implementing simulated workplace into the classroom. Participants will explore how simulated workplace could be implemented across varying learning environments. Participants will identify materials needed to successfully implement simulated workplace. Participants will be able to create a plan for implementing simulated workplace into their own classroom

Accidents Happen – Safety Doesn't Happen by Accident

Mallory McDonald, University of Kentucky, Lexington, Ky

Learning labs such as mechanics shops, greenhouses, animal facilities, and aquaculture tanks are exciting and innovative environments to educate students in a hands-on approach. However, these areas also house many occupational hazards which could harm not only students, but also the teacher! This workshop will provide simple and effective strategies to promote safe learning for all students in lab areas. Educators will learn how to use apps for safety checklists, be provided safety posters and signage, and become knowledgeable in various hazards present in lab areas.

Spin The Wheel – Ag EdVenture Game for Teaching, Learning, and Assessment

Chaney Mosley, Middle Tennessee State University, Murfreesboro, TN

Board games are fun, but not easy for an entire class. Jeopardy or other quiz-like games work well for a review, but may not be engaging. In this workshop, we will learn how to guide our students through the creation of a game that helps us teach, our students learn, and the process can be used as an assessment! We will also play a round of Ag EdVenture, an immersive gaming experience designed by students that takes characters through the first year FFA experience to earning the American FFA Degree!