

2023 PAAE Summer Conference
Professional Development Schedule

Monday, July 10th – Deep Dive Workshops (Start & End Times Vary)

Workshop Title	Workshop Description	Presenter Name	Workshop Time
National Safe Tractor & Machinery Operation – Train the Trainer Session	Participants will become certified to administer the National Safe Tractor and Machinery Operation Program. They will gain access to valuable materials and curriculum to offer the program to students for a certification to utilize specific skills through on-farm employment at the age of 14 -16, additionally older students are encouraged to participate as well.	Penn State NSTMOP Staff	1:00 – 5:00 pm
Chesapeake Bay Foundation – Canoe Trip	Spark your inquiry through hands-on experiences, study the plants and animals that call the Chesapeake Bay watershed home, and cultivate a genuine understanding of your local environment and its connection to the bay. This workshop will include a canoe trip on the Conodoguinet Creek and/or Susquehanna River. Participants will be informed about required attire and footwear prior the workshop.	Kassie Fenn & CBF Staff	9:00 am – 5:00 pm
Ag Equipment Electrical Diagnostics	Participants will gain an understanding of troubleshooting electrical systems in a variety of agricultural equipment. The session will be a combination of theory and hands-on activities using diagnostic tools and simulators.	Matt Herr – Thaddeus Stevens College	10:00 am – 4:00 pm
“Steering” You Through Market Livestock SAEs	Workshop participants will learn how to efficiently use the market manager in the AET system by learning how to set up the project correct and enter records which will lead to complete degrees and awards.	Carole Fay – SAE Specialist	1:00 – 4:00 pm

Tuesday, July 11th – PD Session #1 1:30 pm – 2:45 pm (75 minutes)

Workshop Title	Workshop Description	Presenter Name	Workshop Times
Creating a Culture of CTE	What is the perception of CTE in your school? Especially in a comprehensive high school where CTE often functions as a department within a traditional academic setting, it can be difficult for CTE to stand out, shake negative stereotypes and foster an identity. This session will focus on how to generate a positive perception of CTE, create opportunities for early exposure to CTE and recognize CTE student success to evolve a stronger climate of CTE. How are you fostering a stronger CTE climate in your school?	David Bittner – Milton Area High School	1:30 pm – 2:45 pm
Teaching Students to Master Dichotomous Keys	This workshop will allow participants to experience the series of activities currently used to teach students how to use and write dichotomous keys. Specific focus will be given to the progression of activities, potential substitutions that can be made, and effective evaluation of student work throughout. Teaching materials and lesson pacing guide will be provided.	Alex Barzydlo – Dover Area High School	1:30 pm – 2:45 pm
Middle School Ag Program Discussion	Are you currently a Middle School Agriculture Teacher or considering adding a middle school program to your school? Join us for this discussion forum to glean ideas from current Middle School Ag Teachers and collaborate with other teachers considering middle school courses.	Jenna McIntire – Big Spring Middle School	1:30 pm – 2:45 pm
Helping Students Explore Ag Careers	Are you looking for ways to expose your agriculture students to careers in the agriculture industry? If so, then you will want to attend this break-out session. Participants will learn about the Ag and Food Careers website which features an interactive career quiz for students to complete. Given answers to the ten questions, students receive immediate feedback of the careers in agriculture which best fit their preferences. In addition, participants will have access to lesson plans, videos, discussion guides, and other resources.	Michelle Shearer – Grow Pennsylvania Agriculture Workforce Committee	1:30 pm – 2:45 pm

Tuesday, July 11th – PD Session #2 3:00 – 4:15 pm (75 minutes)

Workshop Title	Workshop Description	Presenter Name	Workshop Times
Alternative Pathways to Graduation	In this breakout session, participants will learn about Act 158 and the five pathways for students to receive their high school diplomas in Pennsylvania. While two of the pathways involve the Keystone Exams, the other three pathways do not require proficiency on the Keystone Exams. Participants will learn about the other three pathways in depth. In addition, various credentials and certifications will be presented which can be used for agriculture students to graduate from high school. By the end of this session, participants will be able to determine the best pathway for each of their agriculture students to receive their high school diplomas.	Michelle Shearer – Center for Dairy Excellence	3:00 – 4:15 pm
What's Happening in my GLAG community?	This workshop will provide an overview of the Global Teach Ag Network's (GTAN) three complementary programs (GLAGjr, GLAGreads, and GLAGcreates) and highlight opportunities for practical implementation. Following a brief description of the new Global Learning in Ag Community format on the Mighty Networks platform, participants will learn more about the complementary programs and their connections to professional development and agricultural science content areas. Each one of these programs will connect to the 17 United Nations Sustainable Development Goals and global agriculture. For example, GLAGjr offers educators the opportunity to integrate secondary curriculum on global challenges into their agricultural science courses. In addition, GLAGreads offers an opportunity for professional development through a professional book club comprised of educators from all backgrounds. Lastly, GLAGcreates helps to integrate the arts and creative approaches to agricultural science education, empowering educators to build cross-curricular connections within their classrooms. This workshop will be	Thomas Gabel & GTAN Program Managers – Global Teach Ag Network	3:00 – 4:15 pm

	interactive and provide opportunities for educators to navigate the available resources within the Mighty Networks platform. Following the structured presentation and exploration time, there will be ample opportunities to ask questions and brainstorm ideas for integration with other educators. We look forward to an exciting time of learning and meaningful discussion as we shape the future of global agriculture!		
Chapter 339 Decoded	Participants will work through the CATS and 339 Visit (APE tool) paperwork for clarification on requirements and utilization of evidence to maintain or obtain program approval.	Chris Davis- Pennsylvania Department of Education	3:00 – 4:15 pm
Flower Crowns	Floral crowns can be created within a reasonably budget using easily accessible materials/flowers. Participants will be taught how to create a flower crown and also learn about teaching flower/foilage plant ID, floral design, and how to run a floral program with a business license. Rubrics for classroom use will also be included.	Carly Rippole – Derry Area High School	3:00 – 4:15 pm
Basics of Gas Welding	Looking to learn more about Oxy-Acetylene welding? Join this workshop session to learn about safety, running an oxy-acetylene bead with and without filler metal, and shop management strategies to use with first-time welding students. Participants will be provided the opportunity to practice Oxy-Acetylene welding techniques with the instructor.	Amanda Gagne – Penn Manor High School	3:00 – 4:15 pm

Wednesday, July 12th – PD Session #3 2:15 – 3:30 pm (75 minutes)

Workshop Title	Workshop Description	Presenter Name	Workshop Time
Milk Quality & Products CDE	Overview of the Milk Quality & Products CDE	Kacey Rice – BAD Farm	2:15 – 3:30 pm
Environmental & Natural Resources CDE	Overview of the Environmental & Natural Resources CDE	Dianna Jarema – Bermudian Springs High School & Holly Oberholtzer – Lampeter-Strasburg High School	2:15 – 3:30 pm
Marketing Plan CDE	Overview of the Marketing Plan CDE	Alex Barzydlo – Dover Area High School	2:15 – 3:30 pm
Land Judging CDE	Overview of the Land Judging CDE	Dave Steinfelt – Athens Area High School	2:15 – 3:30 pm
Floriculture CDE	Overview of the Floriculture CDE	Carly Rippole – Derry Area High School	2:15 – 3:30 pm
Turfgrass Management CDE	Overview of the Turfgrass Management CDE	Kristen Althouse – Sports Turf Managers Association	2:15 – 3:30 pm
Exploring Entrepreneurial Resilience in Agriculture	Workshop participants will gain a better understanding of resilience and how it applies to entrepreneurship in agriculture. After completing a resilience survey and participating in an interactive scenario, participants will apply resilience building concepts and gain an understanding of how to overcome challenges when starting agricultural business ventures. Participants will leave with materials and resources to incorporate resiliency into high school Ag Business coursework.	Mark Gagnon – Harbaugh Entrepreneurship Scholar, Penn State College of Agricultural Sciences	2:15 – 3:30 pm

Wednesday, July 12th – PD Session #4 3:45 – 5:00 pm (75 minutes)

Workshop Title	Workshop Description	Presenter/Contact Name	Workshop Time
Navigating the POA in AET	Looking to utilize the AET to organize the Program of Activities for your FFA chapter? During this session, we will discuss how to set up and develop a chapter strategic plan, begin to develop a Program of Activities, and create a Chapter Calendar. Bring your laptop and get a jump on your planning for 2023-24!	Carole Fay – SAE Specialist	3:45 – 5:00 pm
How do I Develop Projects with an Impact? Using Sustainable Development Tenets to Drive Youth and Community Impact	Participants will be guided through an introduction to the SDGs, a brief needs assessment for their community/situation to identify SDGs with local relevance and move into a tour of university extension models. As a group we will cover an example logic model, and participants will then get a chance to craft their own project under the guidance of the workshop facilitators. Participants will share out their models based on common SDG focuses and as a total group will reflect on the process and assess knowledge, skills, and dispositions gained during the workshop.	Carson Letot – Penn State University, Ph.D Candidate in Agricultural & Extension Education	3:45 – 5:00 pm
Running an Ag Student Business	A student-run, student-owned business can bring a lot of ownership to your students and program. Running an agribusiness can be challenging but if you put the responsibility on the students since it is their business, everything will fall into place. This workshop will inform you how to bring a student business to your program and to teach your students ownership, responsibility, and how to give your students an entrepreneurial mindset. EdCorps is trying to push into the Ag Ed space and here will be the perfect opportunity to learn about this platform and to see how the Otto-Eldred Ag Department runs their plant & animal-based soaps and candles business, The Rustic Duck Company. We will also discuss how a student business can fit your agribusiness curriculum and support school-based SAE projects.	Brandon Witmer – Otto-Eldred High School	3:45 – 5:00 pm
Engaging Environmental Partners	In this workshop, participants will learn about various educational opportunities and programs that are sponsored and/or hosted by environmental agencies and partners – ranging in rank from federal, to state, to nongovernmental. One example is the Eels in the Classroom program, which provides students with hands-on experience raising an aquatic keystone species and learning about the Chesapeake Bay watershed, which is sponsored by a quasi-governmental organization, the Susquehanna River Basin Commission. The following resources will be made available to attendees: PowerPoint slides, program coordinator	Nicole Guise – Millville Junior/Senior High School	3:45 – 5:00 pm

	contact information for the respective programs presented, related Google Drive lessons/activities, and door prizes.		
Smith Run River – Mapping Water Quality	What's happening along Smith River? Algae blooms in the watershed are impacting the ecosystem and the economy, and it is our job to investigate where the cause is coming from – is it natural, rural based, or urban caused? Experience an engaging inquiry activity that will allow your students to decide where and how to test for the nutrients that are causing problems and track down the sources. We will not only test water samples, but also use location-based data layers to help analyze where the problem is along the Smith River Run! This is a great activity to incorporate into plant science, natural resources, environmental science, GIS, best management practices, water quality, agricultural issues, and more! This inquiry activity is being presented by the National Association of Agricultural Educators (NAAE) as part of the National Agriscience Teacher Ambassador Program.	Mark Anderson – Elizabethtown Area High School	3:45 – 5:00 pm
Bringing Anerobic Digestion to the Farm	New technology adoption within food and agriculture encounters additional challenges due to existing uncertainty reduction practices and risk avoidance culture on the farm. In this workshop, participants will experience the challenges of new technology adoption in agriculture by investigating the feasibility of implementing anaerobic digestion (AD) technology for an agricultural operation of their choice. Anaerobic digestors convert manure and crop residues into renewable natural gas and higher value fertilizer and coproducts while reducing environmental impacts of farm operations. This teams-based exercise has students identify and describe a farm operation of their choice and outline a potential AD technology and its costs utilizing available resources. Teams are then required to prepare and present an AD adoption plan for their selected operation.	Mark Gagnon – Harbaugh Entrepreneurship Scholar, Penn State College of Agricultural Sciences	3:45 – 5:00 pm

Thursday, July 13th – Deep Dives Workshop Sessions (Start & End Times Vary)

Workshop Title	Workshop Description	Presenter Name	Workshop Times
Small Gas Engines BriefCASE	Small Gas Engines (SGE) is a specialization-level module in the Mechanical Systems in Agriculture series. The module provides technical applications to mechanical systems, using small gas engines as the instructional tool. Students practice technical skills, including measurements, troubleshooting, documenting an engine teardown and assembly, completing work/repair orders, and reading a service manual. This 12-week module can be paired with other modules in the Mechanical Systems in Agriculture series or supplement a standard small engines or ag mechanics curriculum. Prior registration and payment on the CASE website is needed for this workshop.	CASE Lead Teachers	10:00 am – 5:00 pm (Thursday) 8:00 am – 5:00 pm (Friday) 8:00 am – 12:00 pm (Saturday)
Explore Bow Hunting	<p>Explore Bowhunting is a curriculum that teaches students about hunting in their classrooms. With more than 20 activities to choose from, students will learn a variety of skills that will not only help them become better hunters but develop an overall appreciation for wildlife and nature.</p> <p>The Archery Trade Association created this curriculum with the educator in mind. Easy-to-follow lesson plans, an overflowing equipment kit, media packets and more make this curriculum fun for both the students and the teachers instructing. Review sample lesson plans below to see the fun that awaits you and your students and watch a short video clip on the Pennsylvania Game Commission's website.</p>	Pennsylvania Game Commission Representatives	8:00 am – 12:00 pm

Pesticide Education	This workshop is for individuals who currently have a valid Pennsylvania Pesticide Applicator's License. Attendees will receive pesticide safety training relating to core and category 18. Successful completion of this deep-dive workshop will provide 3 core and 4 category 18 credits.	Genevieve Christ – Penn State Extension	8:30 am – 12:00 pm
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