

2018 MAAE SUMMER CONFERENCE

MONDAY, JULY 9

9:00-12:00 MAAE Officer Meeting

12:30-3:00 MAAE Pre-Conference Board Meeting

1:00-4:30 Continuing Education Workshops

FBM – RankEm Training

RankEm is a great tool you can use to error check your FINAN files prior to database review days and also create benchmarking reports for your students. Learn how to use this tool to check for errors and what are the most common errors seen by reviewers. This will help you be better prepared for next year's analysis season. In addition, we will cover a more detailed discussion of using myFINBIN and FINBIN for benchmarking your farms, in order to provide impactful data for your students.

Landscaping For Wildlife – Jan Walsh, Minnesota DNR

What are the best plants to attract pollinators, birds and other wildlife to your yard? Jan will share ideas for transforming your yard into a wild haven, and strategies for dealing with wildlife when it becomes a bit of a nuisance in your garden.

Accommodations: Ell Students – Julie Ketterling & Hannah Wedger, Ag-Ed Instructors, St. Paul Public Schools.

Looking to get a better understanding of ELL or for ideas on how to modify lesson plans for ELL students? Then you need to attend this workshop! This workshop will focus on modifying lesson plans for special education students and specific accommodations for ELL students. Julie completed her dissertation on this topic and has considerable practical Ag-Ed experience in the St. Paul Public School District.

Feeling Guilty – Mary Kay Delvo, INspiring SIGHT

Isn't going to bed feeling guilty like sleeping with the enemy? Are you actually guilty or do you "feel guilty"? In this workshop, you will gain an understanding of what guilt is, how it gets started and what you can do to eliminate it from your narrative. Join Mary Kay Delvo, coach and speaker with INspiring SIGHT, to explore this powerful but unnecessary feeling. Attendees will learn how to gradually remove guilt from their narrative and free themselves to live the life they want.

Citizen Volunteer Monitoring – Len Ferrington, U of M aquatic entomologist

I will review past and current efforts to utilize citizen volunteers as part of our biological monitoring program using aquatic insects. I will also outline our future plans for upgrading the text and on-line resources that are available for citizen volunteers to identify and/or verify the aquatic insects that they encounter during field assessments. I would like to learn what questions or concerns citizen volunteers have about current or future development of Citizen Volunteer Networks.

1:00-3:30 CDE Committee Meeting

3:30-5:00 SAE Committee Meeting

3:30-5:00 Ag-Ed Intern Meeting

5:00-8:30 PEP Meeting

5:00 Recreational activities

6:00 Past President's Dinner – Reception @ 6:00, Dinner @ 6:30

TUESDAY, JULY 10

AM

- 7:30-4:00 Exhibitors Display
- 7:30-9:30 Conference Registration
- 8:00-9:00 TIP / PEP / PIM / Ag-Ed Intern Meetings
- 9:30-10:30 Opening Session
- 10:30-11:15 Regional Meetings
- 11:30-1:00 Luncheon – Voting for 2018-2019 Officers

PM

- 1:00-2:00 Dedicated Exhibitor Time
- 2:00-5:00 Sectional Meetings (High School, Post Secondary, and Farm Business Management)
- 5:30 Picnic and Volleyball
- 8:00 Retirement Roast - this activity is open to **ALL** conference attendees.

WEDNESDAY, JULY 11

- 7:00-8:15 Agricultural Trade Association Breakfast – Buffet breakfast served from 7:00-7:30
MAAE Director Recognition

- 8:15-9:15 Commodity Group Updates

- 9:15-9:45 Regional Meetings

- 9:45-11:00 MAAE Annual Meeting

- 11:30-12:45 Light Luncheon

PM

- 1:15-5:00 **Tours / Workshops – UNIVERSITY OF MINNESOTA**

Bioproducts and Biosystems Engineering Department

Tour the BBE department on the St. Paul Campus with 6-7 stops in different research labs with 5-10 minute presentations by faculty or graduate students about their research at each stop. A 30 minute Q and A will be included at the end. Depending upon availability we will cover topics such as: phosphorus recovery from manure, bioplastics from starch and /or biomass, nanotechnology to recover mercury from lakes, bioplasticizers from soybean oil, aquaponics, and Biofilters to remove nitrogen from farm run offs.

U of M Forever Green Initiative

Working together we can enhance and develop new agricultural systems that will improve natural resources and provide new economic opportunities. The Forever Green Initiative is a University of Minnesota and USDA Agriculture Research Service (ARS) program to develop new crops and high-efficiency cropping systems. Forever Green is composed of teams of researchers, farmers, food product developers, and entrepreneurs from all aspects of the agricultural supply chain whose goal is to develop and promote the use of new crops that enhance water and soil quality.

The Raptor Center – Outdoor Investigator – Mike Billington, Education Program Manager, TRC
Come visit The Raptor Center (TRC) and take part in an hour and half workshop on TRC's innovative Outdoor Investigator curriculum, which is part of TRC's Raptor Lab. Learn how to engage students in an interactive online environment built to guide students through the process of scientific investigation to complete outdoor learning projects using citizen science. In addition, participants will get a 30 minute tour of TRC's newly renovated nature center where you will get to see eagles, hawks, owls, and falcons up-close.

Nursery/Landscape Technology CDE – Chad Giblin, University of MN

This workshop will focus primarily on the problem solving portion of the Nursery/Landscape CDE. Problem solving scenario's will be presented, discussed and reviewed for the areas listed in the problem solving portion of the CDE. A list of resources for the problem solving areas will be provided. Judging criteria for nursery stock and/or landscape plans will be reviewed along with examples and resources for the practicum portion of the CDE.

Agricultural Communications CDE – Dr. Rebecca Swenson, Assistant Professor of AFNR

Have you ever had students indicate an interest in the Agricultural Communications CDE, but didn't know where to start? Have you as an instructor always wondered how to prepare a team for this CDE? If so, then this workshop is for you! This workshop will review and explain all portions of the Ag Com CDE including the media plan, practicum's, and quizzes. Examples of past events will be used to explain how to prepare a Ag Com CDE team.

Discover CFANS: An Admissions Preview – Rachel Smith, Recruitment & Communications Coordinator and UMN Admissions Team

Deciding where to attend college is a big decision for students. There are a lot of factors that sway their decision; from cost, location, and admission rate to college resources and post-graduation opportunities. In the College of Food, Agricultural and Natural Resource Sciences, better known as CFANS, we try to make that decision as easy as possible. In this workshop, our admissions team will equip you with the information to share with your students about the college, including our hands-on approach to learning, opportunities to collaborate with professors on ground breaking research, and our small, friendly campus community. They will also discuss the application process, our majors/minors, and scholarship opportunities. Bring your questions about the U of M, CFANS, and admissions in general, and they will be happy to provide answers. We invite you to join us!

Tours

Urban Roots – 25 minutes to tour site

Urban Roots is a 49 year old non-profit with a mission to build healthy communities on the East Side of St. Paul. Our Market Garden program employs teenage youth interns in a pay-as-you-learn year-round internship. In addition to general job training skills, our interns learn everything from seeding to harvesting on our six urban farm sites. Totaling one acre, our farm supports a 40-member CSA, farmers markets and local wholesale accounts. This tour will visit all six sites, including a tour of our high tunnel and fruit tree orchard at our newest site, Rivoli Bluff.

Ardent Mills – 45 minutes to tour site

Ardent Mills is a flour mill in Hastings, MN. A historical mill that is in full operation purchasing wheat and rye from local farmers and milling the grain. Get to see the behind the scene tour that few get to experience. This is an excellent tour that is interesting and you will personally experience something that will be entertaining as well as informative.

Winehaven – 40 minutes to tour site

Winehaven is a family operated winery that has won numerous awards all over the world. Their label exhibits their history as a honey enhanced wine for value added apiary. Excellent grape, honey, and specialty fruit wines. Included is a wonderful tour to Lakes Area in Chisago City. **There will be a \$5.00 fee for wine tasting as part of this tour.**

Spark Y – Urban Agriculture Lab – 25 minutes to tour site

Join Spark-Y on a tour of our Urban Agriculture Lab! Here you will learn about aquaponics, vermicomposting, and mushroom cultivation! You will also see how Spark-Y utilizes these systems in the classroom to give students real-world, hands on training in sustainability and entrepreneurship!

Toro – 25 minutes to tour site

The Toro Company is a leading worldwide provider of innovative solutions for the outdoor environment including turf maintenance, snow and ice management, landscape, rental and special construction equipment, irrigation and outdoor lighting solutions. From advanced work in electric, biofuel and propane technologies to our water-saving irrigations products, we are innovating in new ways to benefit our customers and the environment. Touring the global corporate headquarters will provide a close up look at the product development lab, product test areas as well as the agronomic lab. Former FFA State Officer, Edric Funk, who leads Toro's Center for Advanced Turf Technology will discuss Toro's focus on innovation and future trends.

Ziegler CAT – 30 minutes to tour site

Tour the Ziegler CAT Bloomington facility and new Ziegler Rebuild Center to experience first-hand one of the largest Cat and AGCO equipment dealers in the Midwest. With 16 locations in Minnesota, highly-skilled service technicians, and 24-hour customer support, Ziegler offers the best equipment backed by exceptional service. On the tour, you'll explore our specialized service bays, see technicians in action, and discover our extensive parts inventory and distribution system. ***No video cameras, cell phone, open-toed shoes, or sandals allowed. Tour attendees will be provided with safety glasses.***

Southview Design – 30 minutes to tour site

Southview Design is the Minneapolis landscape design-build company with a hard-earned reputation for excellent in design, architecture, construction, landscape care, and client service. Our award-winning landscape design portfolio is full of creative ideas for outdoor rooms, patios, unique small yards, and swimming pool design. Our hard-working team of landscapers serves residential and commercial clients in Minneapolis, St. Paul, the Twin Cities suburbs and western Wisconsin. Since 1976, we've completed over 7000 landscaping projects.

- 1:30-5:00 Continuing Education Workshops
- 1:30 Team Ag-Ed Meeting
- 6:30 MAAE Annual Banquet
- 9:00 Reception for Award Recipients

THURSDAY, JULY 12

AM

8:00-11:30 Continuing Education Workshops
FBM / POST-SECONDARY ALL DAY –
Workshop on Wheels!
8:00 AM – bus departs hotel

8:30 AM – U of M Workshops

FINPACK Projection Training

Have you started using the new 3-in-1 Projection tool in FINPACK and have some questions? Or, now that analysis season is over, are you ready to try out this new tool? Bring your laptop to this session to learn more about the new FINPACK Projection tool, get your questions answered, and work through some projection scenarios.

Top Farmer

Learn more about the Top Farmer Survey that your farms participated in during the summer of 2016. The results of this survey will be shared and will provide insights into why some farmers are more profitable than others. Learn more about the composite index used to benchmark the financial success of top farms. This composite index was used instead of net farm income and was compared to the survey data to determine the significance of producer characteristics and tendencies towards success.

11:00 AM – depart for The Good Acre & lunch

The Good Acre

At The Good Acre, our mission is to connect and strengthen farmers, food makers, and communities through good food. We envision a vibrant regional food system where people grow, make and eat good food.

We believe that a successful farm is a sustainable farm. We offer the growers we work with the support they need to cultivate healthy crops and gain access to new markets. As a food hub, we provide space and the infrastructure necessary to wash, process, and store produce fresh from the field. Our team works year-round to connect our network of growers to wholesale buyers so that farmers can turn a profit on their hard-earned harvests and focus on being stewards of the land. We also offer commercial kitchen rental for small food businesses, culinary trainings to institutional kitchen staff, cooking classes that are open to the public, and a 450 member Farm Share program that features produce from our network of growers.

1:00 PM – depart for the Minnesota Department of Agriculture

Tour of MDA

Greetings from MDA Leadership

Down on the Farm next steps

Beginning Farmer Scholarships

RFA Program Review

Other

3:00 PM – depart and return to hotel

HIGH SCHOOL / POST-SECONDARY WORKSHOPS

Vernier Agricultural Science

Agricultural Science with Vernier contains a collection of 29 experiments that can be used in teaching agricultural science at the high school or college level. Some experiments are designed to be done in the field and some in the classroom or laboratory. Topics include – fundamentals of Agricultural Science, plant and soil science, animal science, energy and electricity and general topics. This workshop will review the curriculum and provide hands-on activities utilizing the various experiments.

Introduce the Fundamentals of Science with the Soybean Science Kit! – Fred Henderson

Unlike any curriculum you've ever used, this kit is an engaging, interesting hands-on approach that teaches students the physical properties of polymers and oil, while instilling an appreciation for the use of biological, renewable resources in industrial manufacturing. Biotechnology is also covered, as students learn about the structure of DNA and gain a better understanding of this building block for all forms of life. Presenter Paul Henderson demonstrates some of the 20 plus lessons during the workshop. Kits are best suited for students in grades 7-9. **The kit is valued at \$480 and provided free of charge to the first 25 instructors to register. These kits are made possible through support of the Minnesota Soybean Research & Promotion Council. If you are one of the instructors to receive the complimentary kit, we request it be incorporated into your 2018-19 school year curriculum.**

Dig In! Implementing a Kid's Gardening Program at Your School – Stephanie Wohlhuter & Laura Bidne, Ag-Ed Instructors

In this workshop, we will go through the process we used to set up an elementary kid's gardening program. A kid's program provides a hands-on experience that inspires curiosity and enthusiasm while connecting the farm to the table. Participants will leave with a complete 2-year rotational curriculum that may be used with their own elementary program. Workshop participants will learn how to create a garden plan, conduct a few hands-on activities that we use with our programs, and leave prepared to get the ball rolling with their own program.

Technology in Landscape Design – Jay Siedschlaw, Hennepin Technical College

We will explore several topics related to landscape design. The latest computer software (Dynascape, Lumion, and Sketchup) will be discussed. Participants will use the computer lab at HTC to get some hands on experience in CAD drawing used in the industry. We will also share Augmented Reality and Drone use for landscape design presentation.

Greenhouse Operations, Management & Production – Deb Kvamme, Hennepin Technical College

There is so much to teach students when it comes to greenhouse technology. This workshop entails a group of topics that will give the instructor lots of ideas to keep students engaged. Participants will be given a tour and hands-on experiences in greenhouse operations and technology.

Reaching Youth With Global Learning – Jennifer Skuza & Jessica Pierson Russo, U of M Extension Service

Global learning can be described as an approach to education that recognizes the importance of linking people's lives throughout the world. That approach is at the core of WeConnect: A Global Youth Citizenship Curriculum. The curriculum is designed to help youth thrive in culturally diverse settings – whether part of their school day, home life, social life, or workplace by giving them the opportunity to use global thinking skills and to take action in their communities. Participants in this workshop will learn strategies for working with youth to help them build global learning skills and to see the importance of global citizenship.

Floral Design – Reba Berge, Koehler & Dramm

This workshop will focus on pricing product and prom/dance flowers: gluing flowers, trends, wire accents, etc. No matter the type of floral work you do, whether economical or more elaborate, pricing is the all-important consideration that makes the difference between profit and loss.

12:30 Post Conference Board Meeting

12:30-4:00 Continuing Education Workshops

National Chapter Award/AgriScience Fair – Lavyne Rada, MN FFA Leadership Coordinator

Take some time to reflect on your FFA chapter's successes throughout the year with the National Chapter Award application. This workshop will provide insights to the revised award application and an opportunity to learn more about the award application. Teachers will also learn ways to incorporate the award application into program planning and reflection throughout the year.

The AgriScience Fair is an opportunity for students to learn about agriculture, food and natural resources through research. This workshop will highlight the AgriScience fair process while also providing opportunities for the AgriScience fair to be incorporated into the classroom.

Using Virtual Reality to Expand the Confines of the Classroom – Dr. Ann Domagala, Instructor, Central Lakes College

While nothing is better than live, on-site personal experience, the Animal Science department at Central Lakes College decided that with all of the new, interactive technology appearing on the market, it was time to look into ways that technology could be used to bring the farm to the classroom.

This workshop will showcase the use of Virtual Reality goggles and 360 degree videos to take students on fieldtrips without ever leaving the classroom. A demonstration of two different technologies used to deliver the videos will be provided and all participants will have the opportunity to experience wearing the goggles and testing the systems for themselves.

Participants will receive costs and directions for purchasing and setting up both systems and a catalog list of links to a variety of 360 degree videos.

CASE – Agricultural Engineering – Carl Aakre, CASE Curriculum Coordinator

CASE has just completed the courses for its Agricultural Engineering Pathway. The courses in the pathway use the engineering design process to prepare students for a wide range of agricultural mechanics courses. Students apply technical skills while learning physical and chemical sciences in the classroom. During this workshop, you will be introduced to the core concepts and performance objectives taught in the CASE Agricultural Engineering pathway. You will explore resources enhancing engineering applications in your classes and complete sample CASE activities to bring back to your classroom. **Participants should bring a laptop with internet access to the workshop.**

Landscape Equipment Operations – Jay Siedschlaw, Hennepin Technical College

This will be a hands-on seminar related to safety and the use of landscape equipment. Attendees will be able to drive a skid steer loader thru an obstacle course, dig a with an excavator and operate other pieces of equipment. This event is co-sponsored by RDO Equipment and the Landscape Program at Hennepin Technical College.

MN Nursery & Landscape Association – Curriculum and Labs – Bob Marzolf, retired Ag-Ed Instructor; Dr. David Zlesak, UWRF; MNLA staff and others.

The Minnesota Nursery & Landscape Association's curriculum as well as hands on activities and labs that coincide with the lessons will be presented. Industry representatives will be able to share information related to the curriculum and lessons. Additional activities/topics will include concurrent enrollment , MNLA resources, demonstrations, tree ID, indoor & outdoor gardens, pollinators, and starting plants under lights.

Focus on Forests – Project Learning Tree – Laura Duffy, Minnesota DNR

Forests provide many agricultural benefits: timber, fiber, pulp, carbon sequestration, habitat, and clean water. Project Learning Tree, the nation's premiere environmental education program, has developed a high school module with nine in-depth lessons, designed to get students outside and studying trees. The lessons include: techniques for monitoring forest health, measuring the amount of carbon stored by a tree, invasive species, family forest owners, fire ecology, and the effects of trees in buffers and watersheds. The only way to get the curriculum is by attending a workshop, and so participants are eligible to buy the PLT Forest Ecology curriculum for \$20. Part of this workshop WILL BE OUTSIDE.