

Workshop Descriptions

Friday Afternoon Session – FBM ONLY

FINAN Enterprising Training – Dale Nordquist, University of Minnesota

Dale Nordquist will be presenting a day long workshop on FINAN Enterprising for the FBM PEP instructors. The afternoon session of the workshop will concentrate on livestock enterprising and will be open for ALL FBM instructors to attend.

Friday Evening Sessions

Minnesota FBM Project and Issues Update for FY17 – Keith Olander and Brad Schloesser, Facilitators

This workshop will allow time for MAAE FBM instructors and stakeholders to get an update on what is happening across Minnesota regarding FBM education. Specific presenters and topics include: Rob Holcomb-FBM Best Practices student survey-providing access link, Nathan Converse-How to get started on D2L(Brightspace)-online FBM courses, Dale Nordquist-update on Rank'Em with Q & A on FINPACK issues, Keith Olander-update on web materials for all FBM and curriculum review update, Judy Barka-RMA Risk Management workshop series, Ron Dvergsten-special sorts review – Q & A on analysis process.

Teaching Internship Workshop – Agricultural Education Faculty, University of MN

This workshop is intended for cooperating teachers and the teacher candidates they will mentor during spring semester 2017. The twelve-week teaching internship is the capstone experience for teacher licensure students and has been identified as one of the most valuable experiences in the teacher preparation process. The goals of the workshop are to understand indicators of a successful teaching internship, determine the order that classes will be taught, and identify opportunities for FFA and SAE involvement.

Bringing Energy To Your Classroom – Bruce A. Peterson, Executive Director, Minnesota Energy Center

The Minnesota Energy Center, one of eight Centers of Excellence in the Minnesota State System, will present an overview of the center along with some lessons and instructional kits you can use in your classrooms. Come ready to learn about summer workshops, instructional resources available through the center, energy industry programs in the state colleges, and practical lessons you can implement in your classrooms with the kits provided in the workshop. Presentations will be provided by college faculty and center staff.

Digital Literacy, Financial Education, and STEM Career Tools – Lincoln Hughes, Senior Schools Manager, EverFi

EverFi provides educators with engaging, online learning resources in topics such as financial education, digital literacy, citizenship, STEM readiness, coding and entrepreneurship. Each course is standards-aligned and free of charge to schools. Over 200 schools in Minnesota have gone through an EverFi course. Everyone who attends our presentation will be given login credentials, standards-alignment documents, lesson plans and ongoing technical and curriculum support at no cost.

Middle School Agriculture Resources – Sue Knott & Keri Sidle, Minnesota Ag In The Classroom

Discover animal handling design, plant and food genetics, food science and invasive pest themed experiential learning activities to use in your middle school agriculture classroom. Minnesota Agriculture In The Classroom offers great resources for the middle level learners. Participants can expect to complete standards-based, hands on activities during the workshop that can be utilized in the classroom. Participants will also come away with lesson plans that integrate Minnesota Science and Social Studies standards into agriculture lessons.

Nursery & Landscape Practicums – Nathan Purrington, Ag-Ed Instructor

In this workshop you will learn about all the Nursery & Landscape practicums and how to best educate your CDE team on the procedures of the contest as a whole. This step-by-step workshop is suitable for any/all advisors wanting to improve their knowledge of the Nursery & Landscape CDE. Come and you will gain the confidence to coach your team for success!

Corsage Creations – Darcy Dahna, Agricultural Education Instructor

This workshop will focus on all aspects of corsage making and will provide an excellent experience for those instructors preparing students for the Floriculture CDE. Participants will spend a majority of the workshop making corsages from various flowers and all elements of corsage making will be demonstrated and performed. Whether you're an experienced floriculture instructor or a beginner, this would be an excellent workshop for you to attend. **Additional \$15 fee payable at the workshop.**

Animal Science Labs – Julie Mellum, Ag-Ed Instructor

If you are looking for some hands-on minds-on labs to incorporate into your animal science classes, then this is the workshop for you. Included in this workshop are labs that are utilized in Large Animal Science, Small Animal Science, and Horse Science courses. Provided in this workshop will be all of the materials, including lessons and students notes that are needed to put on labs that may include the following: Gourmet Manure Lab, Pasta Skeletons, Milk Processing and Products (not like the CDE, but more relevant to the consumers), Digestion, Reproduction, and Cow's Eye Dissection (lesson for sure and dissection upon availability of materials).

Proficiency 101 / Minnesota FFA Degree – Juleah Tolosky & MAAE/SAE Instructor Panel

Have question on how to assist your FFA members in filling out a proficiency application? Looking for suggestion to improve the application? Seasoned instructors will provide you with the details of the proficiency application and process.

Do you have questions on utilizing AET to fill out the Minnesota FFA Degree? Do you have questions on the State FFA Degree. Attend this workshop and get your questions answered. Panel members will answer all your questions pertaining to the Minnesota FFA Degree process.

Saturday Morning Workshops

Drones In Agriculture – Jonathan Beck, Unmanned Aircraft Systems Technology Instructor, NCTC

THIS IS AN ALL DAY WORKSHOP. This is a 2-part workshop with lecture in the morning and demonstration in the afternoon. The workshop will provide an update on current regulations, resources and best practices for integrating UAS technology into the classroom. The “Do’s and Don’ts” of using drones has been confusing but with recent changes the doors are opening to fly UAS and create data for the classroom. The topics listed above will be covered in the morning session with preflight and flight demonstrations in the afternoon. Information will be provided about future training opportunities including, ground school, DroneTech educator workshops, and advanced UAS systems training. The ultimate goal is to create a path allowing educators to engage students with a high impact, industry changing technology.

Cashflow Planning and Consulting Concepts-Farm Mediation – FBM Instructor Panel

Experienced FBM instructors will review examples of farms that they have helped students to through the Minnesota Mandatory Farm Mediation Process successfully. We will also have an Ag Lender in attendance to provide insight into what the lending institutions are looking at while dealing with farms with financial challenges.

A Day With the “Rod Professor” – Kris Kristufek, Lake Lady Custom Fishing Rods

Look into the science of fishing rods and the specifics of how to pick out or build a rod. Learn technical “how-to’s”, the materials, and the types of equipment needed. Get reference materials, component sources, and everything you need for rod construction. During this workshop, Kris will explain how fishing rod blanks are created from carbon fiber to a finished blank, how to find the spine or backbone of the blank, explain the technical terms to describe action and power, the differences of length for technique and species of fishing. He will go through handle materials and demonstrate how to attach them, guides and guide placement strategies, thread wrapping techniques, and finishing techniques. This will be a “Teach the Teacher” workshop from a professional custom fishing rod builder who has built well over 2,500 custom fishing rods. Participants will get a free “fly” rod while supplies last.

Skid Steer Loader – Instructor Panel

The equipment portion of the 2017 Agricultural Mechanics CDE involves the Skid Steer Loader. This workshop will be held at Midwest Machinery and involve instruction on the various aspects of the loader. Topics will include, but are not limited to, hydraulic systems, lift capacities, pump identification and ratings, cylinder sizing, valve basics, power calculations, and service intervals.

MyCAERT – MAAE Instructor Panel

MyCAERT is an on-line Agri-Science curriculum resource available to Minnesota Agricultural Educators. Each lesson library includes lesson plans, presentation resources, student resources for learning, and testing resources. This workshop will provide teachers with an opportunity to evaluate the MyCAERT curriculum resources, learn how to cross walk your curriculum with Minnesota academic science standards, reduce your prep time, and increase the rigor of your Agri-Science courses.

No Fees Required: Free Classroom Resources – Jessica Bester, Ag-Ed Instructor

FFA resources, classroom resources, CDE resources, funding resources - all from one place. We will go through the National FFA Organization website and AgExplorer, along with integrating these resources into the classroom. Please bring your own device, it can be any device.

Crops CDE – Dave Swanson, Ag-Ed Instructor

This workshop will provide you with an overview of the Crops Career Development Event and will include information and resources for the following areas: Crop Test, Plant & Seed Identification, Seed Analysis, Practicums and Grain Grading. A considerable amount of the workshop will be spent on deciphering the government document for grain grading and providing you with a step by step procedure to help teach your students the basics of grain grading. A limited amount of crop identification and seed analysis resources will be made available for those beginning teacher that have nothing to start a crops team with.

Visual Testing (VT) of Welding Samples – Michael A. Reeser, Senior Welding Instructor,

Dunwoody College of Technology

Visual inspection of welds and weldments are critical. VT is also the most cost effective manner of providing timely feedback to welders. Providing the welder with strict visual examples and guidelines will increase welder understanding of the root causes for discontinuities and defects. We will also explore several ways to tie visually identified discontinuities and defects to welding parameters in control of the welder, such as travel speed, travel angle, work angle, contact tip to work distance, arc length, and filler metal deposition rate and provide proper correction techniques. You will leave class with a full power point and test CD on Visual Inspection and a list of other resources to use in your program.

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

The National Chapter Award program and National FFA's Program of Activities has undergone some major revisions which are now in effect. Come to learn more about the program changes, see examples of completed applications, and ask question about the new application.

The National AgriScience Fair program has revisions now in effect including new divisions and a new report format for grades 7-8. Come to learn more about program changes, how to add AgriScience to your curriculum, and ask questions about the AgriScience Fair program.

President's Circle Leadership Training: Making a Difference For You The Agriculture Teacher – Minnesota FFA Alumni

Developing stronger alumni leadership statewide will substantially enhance the effective integration of premier leadership, personal development and career success into agriculture education programs. Local effective Alumni leaders can ease the workload for instructors which will further reduce retention issues keeping more agriculture teachers in the classroom. Growing the number of effective, sell trained local affiliate members will increase the quality and sustainability of agriculture education programs across the state of Minnesota.

Small Animals CDE – Trescha Mitchell, Ag-Ed Instructor

During this workshop educators will get a better understanding of the Small Animal Care CDE. Test questions, practicum's and animal identification will all be discussed in this workshop. Exploring more options for students to develop their own materials that will assist the instructor with ease of preparation will also be covered.

Saturday Afternoon

Grants, Matching Funds, Low Interest Loans, Resouces for FBM –

This workshop will focus on the many programs available to farms that many times go overlooked. Presenters will review programs available from MDE, RFA, FSA, and NRCS. FBM instructors will share examples of how some the their FBM students have benefited from these different programs.

Middle School Ag-Ed Curriculum Roundtable – Whitney Rupprecht, Ag-Ed Instructor

Preparing and developing a middle school curriculum can be completely different than high school! In the workshop you will receive practice with numerous hands-on activities, curriculum, FFA activities, and new ideas. We will discuss how to build your program starting with the young students. Participants who have middle school programs should bring a copy of their curriculum and a list of resources, websites, and activities to share.

Greenhouse Management and Production – Barry Theole, Barry's Cherries

Recently invited to do a TED talk, Barry Theole, is a a recognized community expert and owner/operator of Barry's Cherries in Staples, MN. In this workshop you will learn how to properly manage your greenhouse for conservation but also profit for years to come. Whether you are a novice horticulturalist or an expert, there will be something for everyone to learn in this exciting workshop. You won't be disappointed!

AFNR Frameworks / Program Approval – Joel Larsen, Minnesota Department of Education
During 2016, the Minnesota Department of Education lead a project to develop a curriculum framework for Agriculture, Food, and Natural Resources (AFNR) Education. The frameworks are designed to combine the AFNR career pathways, Minnesota Table C course codes, and Minnesota FFA activities as resources within your programs courses and curriculum. Each instructor will receive a jump drive with the AFNR Curriculum Frameworks resources.

All AFNR programs are required to complete program approval every five years. The program approval documents were revised and updated by the Minnesota Department of Education in 2016. Find out what the requirements of an approved program include, and how you can use the program approval process to assist in developing goals for your AFNR program.

Google Goodies – Amanda Thorsvig, Ag-Ed Instructor

The Google Goodies of Classroom, Forms, Drive and Mail, whether you are avoiding them, tip toeing around them, or drowning in them, this workshop is for you! If your school is one to one with devices, or moving in that direction, Google is most likely be your free learning platform. We will show you how Google Classroom can take a load off your shoulders and Google Forms can make you grading workload decrease and paper sign up sheets almost disappear! We will also tough on tips and tricks for making Drive and Mail work for you and not against you. Embrace this technology and come get some hands-on experience with all these Google Goodies! Please bring a device to use in this workshop.

Habitudes – Lavyne Rada, Minnesota FFA Leadership Development Coordinator

This workshop will help you to incorporate the FREE Habitudes resources into leadership and career courses, officer trainings and more! Habitudes are images that form leadership habits and attitudes. They represent a fundamentally different way to learn timeless life and leadership truths. Each image represents a universal principle, designed to ignite conversation and application, regardless of the age of the student. The National FFA organization has partnered with Dr. Elmore and Growing Leaders to produce an FFA exclusive resource Habitudes: The Art of Telling Our Story that reinforces concepts of advocacy such as conversation, credibility, respect, and dedication.

CDE Open Forum – CDE Committee

The CDE committee will be hosting an open forum to discuss and evaluate current CDE opportunities available to students. We would like to go through the rules of the events the activities involved in the events and look at possible ways to improve these events. We will be looking at and evaluating the following CDE's: Farm Management, Nursery & Landscape, Soils and Ag Issues. We would like input from the MAAE membership as we look at these events and how they line up with National.

Crops CDE - REPEAT

Corsage Creations - REPEAT