

Academy Workshops 2018

DRAFT

Dairy Foods

Animal & Food Sciences

Kristy Storbakken, Princeton High School

Minnesota ranks 8th in the nation as a dairy producer and exporter, with a \$3.8 million dollar output impact at the farm level alone. Students will explore the processes of turning milk into a few of the many value-added dairy products. We will learn about the dairy industry while making our own products including butter, cheese, and ice cream.

Kristy Storbakken grew up on a family dairy farm in Northern Wisconsin and loved the farming lifestyle. She currently lives in Princeton, MN with her husband, 5 children, 1 cat, and 2 chinchillas. She attended the University of Wisconsin - River Falls for Broad Area Agriculture and Agriculture Education. She taught High School Agriculture in Princeton, MN for 10 years before taking family leave. She taught mostly in the Animal Sciences, but also taught Food Chemistry and Game Animals.

Soil Science

Natural Resources, Conservation & Sustainability

Ed Terry, Randolph School

Soil is the giver of all life! It is one of our most precious natural resources and is disappearing at an alarming rate with housing, industry, and public uses. Understanding soil is vital to the future of man-kind. We will discuss soil texture, soil structure, soil types, and fertility. Lab activities will be incorporated in to the class.

Ed Terry has just completed his 47th year of teaching agriculture (6 in Farmington and 41 in Randolph), including plant and soil science, animal science, forestry and conservation, and many ag mechanics classes. He farms, and his farm has been recognized as River Friendly. He was a dairy farmer until 2004 and now has a beef cow/calf operation, raises feeder cattle, corn, soybeans, and alfalfa.

Technology in Agriculture

Engineering & Technology

Doug Sahr, Academy for Sciences & Agriculture, St Paul

Technology in Ag is designed to introduce how agriculture has moved on beyond the bibs and pitchfork to a complex technical career. To become more efficient, farmers and producers rely on technology to make the most of every resource they manage. We will have hands-on activities with GPS, drones and robotics and learn how they are used in today's farms.

Doug Sahr has been a teacher of Agriculture for 7 years. While teaching he has served as an FFA advisor, Manager of the Miracle of Birth Center at the MN State Fair and FIRST robotics coach as well as helping out with the Summer Ag Academy at Inver Hills for the third year. As a son of a dairy farmer, Doug has always appreciated what farmers do and how much work they undertake to get food to our tables.

Biosecurity Practices

Public Health, Veterinary Sciences

Stephan. Schaeftbauer, DVM, MPH, USDA-Animal and Plant Health Inspection Service

description

Stephan Bio *Assistant Director, Minnesota Assistant Director – Minnesota SPRS District 3*

Electricity Basics

Engineering, Ag Mechanics

Ben Johnson, MACCRAY High School, Clara City

Learning Basic Electricity: From flipping the light switch to plugging in your cell phone charger. We often take for granted all the benefits that electricity provides for us. Come and learn the basics of home wiring and how we transport electricity throughout the house. In this workshop you will learn how to wire outlets, switches and light receptacles. We also talk about fuses, wire sizes, electrical boxes and other common components used in wiring.

Ben Johnson has been teaching agriculture for 4 years. Previous to this he had 14 years of experience in the Dairy Industry. Besides teaching, Ben enjoys gardening throughout the summer. Ben and his wife run Sunrise Hill Farm, providing people with CSA shares (Community Supported Agriculture) and selling at local Farmers Markets. They also currently raise Boer goats and have an Australian Shepherd.

Citizen Science: Frogs and Fungi

Natural Resources, Ecology

James Schneider, Inver Hills Community College

Amphibian extinction and population decline have reached unprecedented levels on a global scale. In the last two decades 168 amphibian species have gone extinct and 43% of populations are showing declining numbers. While multiple factors contribute to this, climate change and infection by the Chytrid fungus are thought to be dominant causes of this recent decline in amphibians. We will complete a citizen science activity by catching, measuring, and swabbing frogs in an effort to detect the fungus. The data and samples we collect will contribute to a larger research effort.

James Schneider has been teaching biology at Minnesota community colleges for 16 years. He coordinates and leads citizen science trips to Malaysia where he and his students contribute to coral reef and rain forest conservation. Prior to this, James completed a large research project on the shallow ricing lakes of the White Earth Reservation and has contributed to stream ecology research with samples from streams in Sweden. He is a PADI certified Dive Master and enjoys raising his backyard chickens, rabbits, and honey bees.

Whitetail 101

Wildlife Management, Conservation

Steve Hinrichs, Plainview-Elgin-Millville High School

Whitetail 101 - There is no other mammal in Minnesota that captivates our interest than the whitetail deer. Deer are part of a \$500 million dollar industry in Minnesota! Why are whitetail deer so interesting to people? This class will tell you why! We will learn about the deer's unique digestive system, how their glands help in reproduction as well as warning them of predators; and we can't forget about their antlers and what a trophy buck really is! Whitetail 101 will have a nice mix of classroom instruction as well as laboratory and hands-on learning.

Steve Hinrichs has been an ag teacher & FFA advisor since 1997. He started at Forest Lake High School, and since 2004 has been at Plainview-Elgin-Millville High School. He teaches classes in Wildlife Management, Animal Science, Horticulture, and Welding. Mr. Hinrichs is an avid hunter and lifelong outdoorsman.

Attracting Butterflies

Horticulture

Pam Koenen, Alden-Conger School

Bees, butterflies, hummingbirds and other pollinating insects and birds are an endless and fascinating study. There are a variety of plants that are beautiful and easy to grow can attract a multitude of these creatures into a container garden. During this session we will look at a number of plants and learn what insects and birds they will attract. Participants will design and plant a container garden with plant species that will attract pollinators to their surrounding landscape.

Pamela Koenen has been an agricultural education instructor for 28 years. She has spent most of that time at Alden-Conger School -- a small, rural district in southern Minnesota. She has a background in dairy, beef, horses and swine. Her school has a greenhouse and has raised bedding plants, poinsettias and, recently, tomatoes for the school lunch program. In her spare time, she is an avid gardener with a large perennial garden. Her home landscape and plants have been specifically designed to attract a variety of pollinators. Her other hobbies include crocheting, decorating cakes, and riding motorcycle.

The Forests Around You

Forestry & Natural Resources

Leanna Cernohous, St. Croix Central,

Get to know the forests around you by identifying trees, and knowing what is good to be there, or what is not good to be there. You will leave with a sample of the forest, to help you on your journey in your neighborhood!

Leanna Cernohous is dual licensed in Agricultural Education and Special Education. She enjoys the outdoors, spending time with her family and running. Leanna tries to be outside as much as possible through gardening, hunting, fishing, taking walks, riding horses, whatever she can do to be outside! Her favorite subjects to teach are Natural Resources, Food Science, Animal Sciences and Life Skills.

Veterinary Techniques

Animal and Veterinary Sciences

Dan Foss, Champlin Park High School

In this session you will learn how to administer medication using 3-4 different methods. You will also learn how to perform a variety of suture techniques on animal tissue. Learn some skills and information about job opportunities in the Veterinary and Animal Science Fields.

Dan Foss teaches Agricultural Science at Champlin Park High School. Prior to teaching at CPHS, Mr. Foss taught in the Princeton Public Schools. Mr. Foss has been teaching Animal Science in some capacity for more than 25 years. Mr. Foss has his Bachelor of Science degree from the University of Minnesota and a Master's degree in Leadership from St. Cloud State University. Mr. Foss lives in Brooklyn Park with his wife and three children.

Career Assessment Workshop

College & Career

Emily Annexstad and Alexis Stibor

Summer Academy 4-H Activity Coordinators

The career workshop will explore careers in agriculture, food, and environmental sciences. You will take an interest assessment quiz and participate in small group discussion with others that share similar career interests. A value assessment quiz will help you further explore potential careers.

Shortened Intern bios Read more at end of document

Resume Writing and Interviewing

College & Career

Leanna Cernohous, St. Croix Central

Have you had to write a resume yet? Are you confident you did a good job? How about an interview? Was it fun, were you nervous? We will prepare you in both areas so you can be confident in what you are doing! A confident person is a good candidate, and we'll have fun building your skills to write a solid resume, and prepare you for a great interview!

Leanna Cernohous is dual licensed in Agricultural Education and Special Education. She enjoys the outdoors, spending time with her family and running. Leanna tries to be outside as much as possible through gardening, hunting, fishing, taking walks, riding horses, whatever she can do to be outside! Her favorite subjects to teach are Natural Resources, Food Science, Animal Sciences and Life Skills.

The 4-Cs Framework for the College-search Process

College & Career

Aaron Salasek, Director of Outreach and Recruitment, Inver Hills Community College

Selecting a college can be one of the most confusing - and overwhelming - processes a student and family goes through. How does one pick their ideal college? What are the questions one should ask? Can I afford college, and if so, how do I make it all work with my personal life, career aspirations, financing, and so on?

This presentation by Inver Hills Community College's Director of Outreach and Recruitment conveys a simple structure by which students can assess their fit factors for their ultimate college of choice: culture, coursework (i.e. majors options), cost, and continuing with next steps.

Aaron Salasek's career experiences consist of volunteerism through AmeriCorps, teaching at the university level while studying the philosophy of education, and – for the past eight years – advising students with access to higher education at two-year public community and technical colleges as well as four-year private institutions. He has worked on many areas of critical student services' programming, and is involved in both the state and national professional organizations for admissions counselors, focusing on areas of applied ethics and admissions policy. He is delighted to be the Director of Outreach and Recruitment at Inver Hills Community College, where he and his staff can serve students and families to the best of their abilities!

Academy Staff

Joe Ramstad

*Summer Academy 4-H Activity Coordinator
Agricultural Education, Communication and Marketing, University of Minnesota Twin Cities*

[Joe Bio](#)

Emily Rogers

*Summer Academy 4-H Activity Coordinator
Agricultural Education, Communication & Leadership, South Dakota State University*

[Emily Bio](#)

Elena Krogman

Summer Academy Lab Specialist, Inver Hills Community College

Elena Krogman is a current student at Inver Hills Community College working on obtaining a Associates of Science-Chemistry degree. Elena graduated from IHCC in 2015 with her Associates of Arts degree and then transferred to the University of Wisconsin-River Falls. While at UWRF, Elena studied biology and graduated in 2017 with a Bachelor's of Science in Biomedical Science and a minor in Chemistry. Also while at UWRF, Elena did research on heart failure medication and traveled to Taiwan to conduct further research on specific compounds that would potentially increase the attenuation rate of the heart. In a few years, Elena will move on to get her Master's Degree in Biological Sciences.

When she is not at school, Elena likes to go for walks and go to the Mall of America. She has no pets nor children, just a boyfriend named Steven.

Elena has a huge passion for Biology and science in general!

Anja Johnson

4-H Program Coordinator

Dakota County, University of Minnesota Extension

Anja Johnson has worked with the 4-H Youth Development Program with the University of Minnesota for the past 10 years and has been with Dakota County for eight. Anja works with over 1200 youth in the largest county 4-H program in Minnesota.

Anja graduated in 2007 from North Dakota State University in Animal and Range Sciences with a minor in Child Development. She earned her masters degree in Youth Development and Leadership from the University of Minnesota in 2016. Anja has an extensive background and passion for animals especially beef cattle, goats and horses.

Anja is married and has three children (Owen 6, Sierra 3 and Derick 2). In her spare time she enjoys spending as much time as possible outdoors with her family, especially going to her childhood farm near Northfield, MN, riding her horses and playing with goats (45 to be exact!!). She also enjoys the quiet time at their cabin in northwestern Wisconsin.

Kristin Digiulio

Inver Hills Biology Faculty

Outreach Coordinator, Agricultural Science

Kristin's lifetime passion for agriculture began on her family's farm in rural New England, and continued as she studied animal science in high school and at the University of Connecticut. She served as State FFA Secretary, earned her American FFA degree and was a finalist in the FFA National Prepared Public Speaking contest. Her interest in science and policy brought her to Washington DC, where she received a Master's degree from Georgetown University. While in DC, Kristin worked as a policy analyst at the Center for Food and Nutrition Policy, and planned international scientific symposia for the Ceres Forum.

Kristin moved to the Midwest to pursue her doctorate. She was a USDA fellow in Agriculture and Applied Economics at the University of Minnesota, where she completed preliminary exams in Applied Economics and Conservation Biology, as well as coursework for a minor in Marketing at the Carlson school. After lecturing in both Applied Economics and Biology at the U, Kristin began moonlighting off-campus, and found a new passion: teaching community college students. Today Kristin teaches biology at Inver Hills and spreads the word to students of all ages about opportunities in agriculture...a dream come true!