



## ***National Youth Summit on Agri-Science 2019*** **Program Schedule**

### **Thursday – January 10, 2019**

- 5:00 – 5:30     **Introductions and Mixers**  
– Aiton Auditorium
- 5:30 – 6:30     **Dinner – Clover Cafe**
- 6:30 – 7:30     **Welcome and Keynote Speaker**  
– Aiton Auditorium  
*Scheduled to Appear:*
- *The Honorable Ted McKinney*  
Under Secretary of Agriculture  
for Trade and Foreign  
Agriculture Affairs  
US Department of Agriculture
- 7:30 – 9:00     **Community Action Plans**
- Introduction to Action Plans
  - 2018 Community Action Plans  
Presentation and Panel  
Discussion
- 9:00 – 10:00   **State/Delegation Meetings and Action  
Planning Preparation**

### **Friday – January 11, 2019**

- 7:00 – 8:00 am   **Breakfast – Clover Cafe**
- 8:00 – 8:50 am   **Workshop Session #1**
- 9:00 – 9:50 am   **Workshop Session #2**
- 10:00 – 12:00   **Career Fairs**
- 12:00 – 1:00     **Lunch – Clover Cafe**
- 1:00 pm          **Group Photo – Meet by Flagpoles**
- 1:00 – 5:00      **Site Visit –**  
*Smithsonian Museums on the  
National Mall*
- 6:00 – 7:00      **Dinner – Clover Cafe**
- 7:00 – 7:50      **Workshop Session #3**
- 8:00 – 8:50      **Workshop Session #4**
- 9:00 – 10:00     **Networking Time**

### **Saturday – January 12, 2019**

- 7:30 – 8:30 am   **Breakfast – Clover Cafe**
- 8:30 – 9:20 am   **Workshop Session #5**
- 9:30 – 12 pm     **Real Colors/Maryland AGsploration**
- 12:00 – 1 pm     **Lunch – Clover Cafe**
- 1:30 – 4:00      **Real Colors/Maryland AgSploration**
- 4:10 – 5:15      **Workshop Session #6**
- 5:15 – 6:15      **Dinner – Clover Cafe**
- 6:15 – 6:45      **Action Planning Team Time**
- 7:00 – 10:30     **Nightview of National Monuments**
- Lincoln Memorial
  - Vietnam Veterans Memorial
  - Korean War Memorial
  - MLK Memorial
  - FDR Memorial
  - Jefferson Memorial

### **Sunday – January 13, 2019**

- 7:30 – 8:30 am   **Breakfast – Clover Cafe**
- 8:30 – 9:30      **Final Action Planning**
- 9:30 – 10:30     **Community Action Share Fair**
- 10:30 -11:30     **Capnote Speaker – Aiton Auditorium**
- Serena Woodward, Youth in Action  
Award Winner, Agriculture, 2019
- 11:30            **Final Evaluation and Goodbyes**
- 12:00 pm        **Box Lunch Pickup and Departure**

Safe Travels Home!



NATIONAL 4-H  
COUNCIL

**SCIENCE MATTERS**





**Real Colors/Maryland AgSploration  
Saturday, January 12, 2019**

**\*\*\* Find your number group on your nametag \*\*\***

*MD AGsploration*

*Real Colors*

**Career Fair Panelists**

<b>Dawnjalice Brown</b>	International Program Specialist, USDA Foreign Agriculture Service
<b>Devin Dotson</b>	Public Affairs and Exhibits Specialist, United States Botanic Gardens
<b>Tiffany Lee</b>	DVM, PhD, Director, Scientific & Regulatory Affairs, North American Meat Institute
<b>Kehmari Norman</b>	Community Garden Specialist, D.C. Department of Parks and Recreation
<b>James Pierce</b>	Park Ranger – Volunteer Coordinator, National Mall and Memorial Parks
<b>Jakie Myer</b>	Park Ranger, National Mall and Memorial Parks
<b>Shannon Dill</b>	UMD Extension Educator – Education Outreach to Women in Agriculture Program
<b>Luke Zerby</b>	Brand Marketing Manager, Precision Land Management, New Holland Agriculture NA
<b>Rebekah Lauster</b>	RCPD Program Specialist, Natural Resources Conservation Service
<b>Tyler Butler</b>	General Manager, Butler’s Orchard
<b>Beth Mathie</b>	Program Manager, Center of Professional Personal Development, Penn State AgEd
<b>Ray Kerins</b>	Bayer Senior VP and Head of Communications, Government Relations & Policy
<b>Mike Parrish</b>	Bayer Vice President of Government Relations
<b>Elizabeth Benitez</b>	Commercial Loan Officer, MidAtlantic Farm Credit



## **Workshop Sessions 1 & 2 – Friday, January 11, 2019**

### **My Local Cooperative – Education community, Agriculture – Ellen Thompson**

Agriculture cooperatives are the backbone of many communities across the country. Cooperatives provide the unique opportunity for farmers and ranchers to become owner members. Learn more about agriculture cooperative careers, structure and how to get engaged in your local cooperative.

### **Smelly Side of Animal Science – Jennifer Fetter**

It's something everyone raising animals has to deal with, and in many states there are laws we are required to follow to manage it. What is it? It's manure! Even if you only raise a single horse, cow, or pig, manure has an impact on water quality if not managed properly. This workshop will provide fun, hands-on activities to learn more about it.

### **Precision Farming – Yesterday, Today, Tomorrow and You – Luke Zerby**

How will we be able to feed a growing global population? This session will explore the expanding field of precision farming where engineering and technology work together to make modern agricultural production more efficient and effective. Current and future developments in Precision Farming will ensure food security not just in the United States, but the entire world. Learn about the top technologies in precision Ag such as Guidance, Robots and Drones, Interconnected Apps and Telematics. The future of Precision Farming will need expertise from all different backgrounds and people with many different talents.

### **The Science of a GMO – Valerie Bayes**

Participants will explore what a GMO is, what it isn't and how they are made and tested. Students will compare and contrast methods of selective plant breeding, describe the scientific process of creating a genetically modified plant, compare genetically modified soybean seeds to conventional soybean seeds, describe the impact weeds have on plant growth, and understand how a genetically modified seed can help farmers manage weeds.

### **Discovering Dairy – Tracy J. Behnken, Melisa Konecky & Washington County 4-H Ambassadors**

This workshop will train participants on teaching younger youth using an interactive poster series that can easily be replicated. Participants will learn about the dairy industry and increase their understanding of dairy production. Participants will also have the opportunity to make (and eat) butter.

### **"It's an Outbreak!" Solving a Biosecurity Crisis in Animal Science – Callie Daugherty**

Participants will simulate an outbreak of a highly contagious disease among a herd of animals. Then, they will be tasked with identifying patient zero and creating a biosecurity plan to minimize the risk of another outbreak in the future.

### **Be a Wildlife Biologist – Harold Dietrich**

Wildlife biologists often focus on managing animal populations in an ecosystem. Participants in this workshop will develop a deeper understanding of carrying capacity and wildlife management by participating in two highly interactive simulation activities.

### **Kids Teaching Kids – Jessica Pflugfelder**

Get involved in your community schools and bring agricultural education to the classroom! Empower yourselves to bring agricultural awareness to school kids using your knowledge and experience! Come and learn how to plan and implement an agricultural literacy event and how to engage the kids in fun learning extension activities!

## **Workshop Sessions 3 & 4 – Friday, January 11, 2019**

### **How in the World is my Food... - Vernelle Mitchell-Hawkins**

This Teens as Teachers workshop will equip participants with how to deliver a variety of food science based lessons to younger members. At the end of the session, youth leaders will be able to use common materials to teach others how to accurately describe the WHERE in the world and HOW a simple food is produced.

### **Exploring Dairy Science Say Cheese – Chris DeCubellis**

Discover opportunities to take the 4-H Dairy Project to the next level, and explore careers in dairy science, as you make cheese! Participants will make mozzarella cheese. While they are making their cheese, they will learn about 4-H dairy quiz bowl, dairy judging, and how these activities can lead to high-paying careers in dairy science!

### **Ag Tank: Marketing Matters – Matthew Wilson**

Marketing matters! Effective communication is essential to marketing products in the agricultural market. Come discover effective marketing techniques and tactics to reach today's savvy consumer. Gain hands on experience developing a team marketing plan and present your team's plan in our engaging "Shark Tank" like format.

### **Monarchs on the Move: Pollinator conservation on farms and in cities – Maya Hayslett**

Pollinators are essential for our food supply yet their numbers are decreasing. Increasing monarch habitat increases habitat for pollinators and wildlife. In this workshop you will learn about conservation practices in agriculture that increase and maintain monarch butterfly habitat. Then apply what you have learned to different scenarios.

### **Pizza Garden: An Agricultural Journey – Sandy Hernandez**

This University of Florida 4-H curriculum was designed to teach young people about where their food originates by using something children love to eat...PIZZA! This 8-lesson project will young people think about all that is involved in bringing their slice of pizza to them.

### **Fuel for Thought: Learning about Biobased Products and Bioenergy – Natalie Aiello**

This workshop will introduce participants to a collection of activities regarding biobased products and bioenergy. Fuel for Thought is a Pennsylvania 4-H Curriculum that teaches about marketing, action, research and design in the biofuel industry, and offers an introduction into many innovative bioenergy ideas.

### **Food Solutions Challenge-Food Loss – Valerie Bayes**

How might we reduce food loss before it reaches the consumer in order to increase the amount of available edible food and lessen the impact on climate? A prominent challenge to ending hunger is food loss. The Food Solutions Challenge encourages participants to explore compelling issues shaping society and agriculture. Do you have what it takes to find solutions to reduce food loss before it reaches consumers, all while supporting a healthy environment? Join us to find out.

### **Learn how and why to Graft Tomatoes!** – Dawn Mulcahy

Learn the reasons, benefits and resulting yields of grafting. We will be discussing and trying the different methods used to join two plants together as one. Most often used for fruit trees, it is being used in greenhouses where crop rotation is not possible and disease pressure is high.

## **Workshop Session 5 – Saturday, January 12, 2019**

### **Commodity Challenge** – Edward Usset

Marketing grain is a difficult challenge for producers. Commodity Challenge ([commoditychallenge.com](http://commoditychallenge.com)) is a mobile-friendly game that helps students experience the challenge of grain markets and marketing decisions. The game offers a hands-on approach to learning about grain markets, marketing decisions and pricing tools.

### **The Congressional Award: A perfect fit with 4-H** – Linda Mitchell

Participants will learn about the Congressional Award and what it takes to earn a bronze, silver, or gold medal.

### **The Magic of Digestion** – Abby Heidenreich

Learn about the magic of animal digestion by creating your own digestive tract! Food enters the mouth and SHAZAM! It becomes nutrients and waste! It's not an illusion – It's animal science! Investigate nutrient absorption, chemical interactions and digestion processes of various animals through interactive activities.

### **Teens Teach Environmental Science** – Deb Dietrich

Our 4-H Teen Leaders wear many different hats! If you are looking for an innovative way to teach younger youth about insects and help them understand their role in addressing the threat of invasive species, then this is the workshop to meet your needs. Experience fun, hands-on activities in environmental science that you can teach back home.

### **Food for All: World Food Prize Youth Institute** – Betty Jo Krosnicki

Every night almost 1 billion people go to bed hungry. How will we feed everyone in the year 2050 when the world population passes 9 billion people? In this session you'll explore different perspectives of the global food security problem and learn how you can be a hunger fighter.

### **Science of Ag Challenge: Do You Know GMOs?** – Michael Compton

Looking for a hands-on experience to investigate how you can explore agricultural issues and contribute your ideas? Join us for a session that will provide a learning experience focused around the Science of Agriculture Challenge program. This program has allowed Minnesota 4-H'ers to become the innovators of the future and problem solvers of today.

### **Innovations in Agri-Science** – Robert Horton

Improving the performance of crops in drought conditions using soy lecithin, combining soy ingredients to make VOC-free compounds, converting sugar energy into light energy, and transforming bio-mass into useable by-products are just some of the innovations that lessen our environmental impact, reduce costs, and create healthier living conditions.

### **Chocolate Sensory Perceptions** – Carol Hamilton

Every individual has their own preferences when it comes to food they like or dislike. Together, we will examine the role of food perception and sensory responses in the brain. Participants will not only learn about individual variation and consumer differences but learn how food preferences are evaluated using chocolate.

## Workshop Session 6 – Saturday, January 12, 2019

### **Masterful Milk Ambassadors: 4-H'ers Bridging the Gap to Educate Consumers** – Carrie Chickering-Sears

Problem: How do you promote dairy in a state with a rapidly shrinking dairy farm presence with no traditional princess program and growing urban consumer base? Solution: Create a team of youth who want to share their stories, travel the state and educate the public about agriculture and dairy farming.

### **Entomophagy: Food for the Future** – Conchita Newman

Entomophagy is said to be the future of food sustainability. As the “food scientist” you are task with developing a satisfactory high protein smoothie using insect protein powder that consumers would accept and purchase. Remember the consumer drives the market! Good luck developing a product that will please the buyer!!

### **Career Exploration Workshops and Innovated Careers** – Amanda Forquer

We'll show you how to provide a unique hands-on experience for youth to explore a career while side-by-side an industry professional for a day to see if it's a career they want to pursue. We'll also talk about how to research ag careers and some of the innovated jobs available.

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