Session Descriptions

Select your workshops, mini workshops, and traveling workshops when you register! This year’s participants will have the opportunity to select their choice for each workshop session time slot when registering. Admittance tickets for each session will be in your registration packet. The earlier you register, the better your chances of getting your desired sessions.

Presenters have designated grade levels for their workshop sessions. Frequently, the ideas and lessons shared can be adjusted up or down depending on the age of the group you are educating. The grade levels are merely suggestions and you are welcome to attend any session. Please understand that the program may change due to circumstances beyond our control which may necessitate session changes.

WORKSHOPS

Session 1, Wednesday, 4:00pm-5:30pm

What’s So Great about Florida Phosphate!

Applicable Grade Levels: K-12


Indira Sukhraj, USF Polytechnic Florida Industrial & Phosphate Research Institute

This workshop gives K-12 teachers an overview of Florida phosphate, from its geologic beginnings to modern fertilizer production, and illustrates ways of incorporating phosphate information into classroom lessons that support the Sunshine State Standards. Florida phosphate is an essential nutrient source contributing to 75% of North America’s and 25% of the world’s fertilizer needs for crop production. The content of this workshop is condensed from the two-week Teacher Workshop offered by FIPRI each summer. No matter the grade level or subject area you teach, phosphate facts will add relevance and rigor to your teaching!
Applicable Grade Levels: PreK-2 with applications and extensions that can be used up to 6th grade

Applicable Subject Areas: Reading, Math, Writing, Life Science

Cathy Musick, Executive Director, Kansas Foundation for Agriculture in the Classroom

Holly Higgins, Safety and Education Director, Kansas Farm Bureau

Experience take-home lesson plans that explain respectful, responsible farm animal care to students. Six interactive lesson plans using graphic organizers and a decision making model will be demonstrated.

Curriculum: Farmers and Ranchers Care about their Animals, Dan Yunk, Kansas Farm Bureau
Animal Caretakers All, National Cattleman’s Beef Association.

Outcomes: Workshop participants will be empowered to teach students:

- basic needs for animal survival.
- nutrients animals need.
- healthy animals produce healthy food.
- ways farmers and ranchers provide for the needs of animals.
- interactions in the food chain.
- differences between carnivores, omnivores, and herbivores.
- how farm animals enrich lives.

Extra!! Extra!! Read All About It!!

Applicable Grade Levels: All Levels

Applicable Subject Areas: Language Arts, Social Studies

Willie Sawyer Grenier, Maine Ag in the Classroom

Using an agriculturally related book, we will model the teaching of a variety of reading strategies for elementary classrooms. Using sticky notes, participants will make predictions, connections, and question what they are reading. We will model how to “build” a summary, find and chart expressive words, and teach reading with fluency. Finally participants will chart words for word work and phonemic awareness, and set up KWL charts. The instructor will also model public speaking exercises and state Ag. Lessons through the use of a state “float” pageant and a state agriculture book written by the class.
Become A Stomata Sleuth, Have Phun with Photosynthesis
Two Great Inquiry Labs to Enhance Gifts from the Sun!

Applicable Grade Levels: 5-10
Applicable Subject Areas: Language Arts, Math, Science

Judith Nova, Saint Lucie County Schools

Looking for engaging inquiry labs for your middle grade students? These two labs delve in to the 5 E’s while enriching the Food Land and People lesson Gifts from the Sun. This workshop will provide you with everything you need to enhance your students understanding of the complex concept of photosynthesis. You’ll learn how to design, and create solar cell plants that actually demonstrate the process. Compete in a solar plant power race: can your plant make music, light a bulb, or turn fan blades? Become a Stomata Sleuth. Which plant has the most per square cm?

Hooked on Hydroponics in the Classroom

Applicable Grade Levels: PreK-12
Applicable Subject Areas: Life Sciences, Physical Science, Earth Science. Presentation to be aligned with National Science Education Standards, and applicable Next Generation Sunshine State (Florida) Standards.

S. Hope Chybion & John P. Chybion, Teachers, Brevard County Schools, Palm Bay FL

Despite increases in Hydroponics growing among commercial growers worldwide, use and instruction has yet to gain substantial popularity among educators. This workshop is intended to be a one-stop resource for all teachers interested in facilitating soil-free scientific indoor and outdoor gardening.

Topics: Definition, History, “what is necessary to cultivate plants,” Compare and Contrast with traditional farming, benefits to the educator and students of hydroponics, identification of crops that readily adapt to hydroponics growing (and those that don’t), how to incorporate hydroponics in their classroom curriculum.

Attendees participate in a make-and-take session, building a hydroponics garden at their learning center.

Awesome Agriculture for Kids

Applicable Grade Levels: K-6
Applicable Subject Areas: Science, Math, Language Arts, Social Studies

Susan Anderson and JoAnne Buggey

This session will feature “Agri Culture” (a tractor) and the books in the Awesome Agriculture for Kids Series. It will integrate agriculture into your primary or intermediate classroom using children’s books of the series. These books will be the focus of inquiry: modeling pedagogy, graphic organizers, and informal assessment. Graphic organizers such as an A to Z list and concept maps will be used. Applications to other areas of agriculture will be introduced. Participants will receive handouts and a primary or intermediate children’s book from the Awesome Agriculture for Kids series. This session is appropriate for formal and informal educators.
Nature Scavenger Hunt

Applicable Grade Levels: All Levels

Applicable Subject Areas: Including agriculture, language arts, science, math, nutrition, science, social studies, art, and physical education.

Beverly Hall, Putnam County Educator/ Farm Bureau Ag in the Classroom

Discover Hidden Treasure right in your own backyard or schoolyard. Join me for a workshop on the beautiful grounds of the Marriott Harbor Beach Resort & Spa. Instead of sitting and listening, we will go outside and practice what we preach. Marriott Resort has kindly granted permission to explore their grounds and discover the wonderful hidden treasures that are in our world of nature. This engaging activity will allow us to learn and share. The hands-on fun will be intriguing and enlightening! Our students will enjoy the benefits of what their teachers have learned when we return to the classroom.

Start Farmin’: A Life-Sized Board Game

Applicable Grade Levels: 2-12

Applicable Subject Areas: Language Arts, Nutrition, Science, Social Studies

Arlette Roberge, Florida Department of Agriculture and Consumer Services

This life-sized board game is designed to teach students the modern-day complexities facing our farmers through a fun and an interactive learning experience.

Students move forward or backward based on positive or negative circumstances that increase or decrease a farmer’s chances of producing a successful crop.

By answering questions on variety of agriculture topics, students may earn additional turns. Students can play separately or on teams. Questions can be modified to accommodate age-groups from second grade to high school. The interchangeable game squares allow modification for many classroom settings.

Together We Can Feed the World

Applicable Grade Levels: 6-12

Applicable Subject Areas: Social Studies and Science

Chris Fleming, Tennessee Foundation for AITC

Regardless of your thoughts about global warming, over-population, Area 51 or other controversial subjects, we all need to eat! This fact should guide our thoughts when dealing with controversial issues. Global issues are important, but individual survival is a primary concern to most of earth’s inhabitants. This workshop will demonstrate ways to incorporate activities from Tennessee’s Plant A Seed in Tennessee curriculum and Project Food, Land & People into middle school and high school science and social studies classes.
Session 2, Friday, 9:00am-10:30am

Get Smart'er' with Illinois Ag in the Classroom

Applicable Grade Levels: K-8

Applicable Subject Areas: Math, Reading/Language Arts, Science, Social Studies

Kelly Murphy, Illinois Agriculture in the Classroom

Come see the ways SMART Boards can be used to incorporate agriculture and technology into your classroom. We will expand on current agriculture lessons and activities and will show some new techniques on creating your own SMART Board lessons. This session is for teachers, AITC staff and volunteers who want to learn more about incorporating SMART Board lessons into their classrooms.

Hooked on Hydroponics in the Classroom

Applicable Grade Levels: PreK-12

Applicable Subject Areas: Life Sciences, Physical Science, Earth Science. Presentation to be aligned with National Science Education Standards, and applicable Next Generation Sunshine State (Florida) Standards.

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Attendees participate in a make-and-take session, building a hydroponics garden at their learning center.

Roots, Shoots, Buckets and Boots

Applicable Grade Levels: PreK-8

Applicable Subject Areas: All curriculum areas language arts, math, science, social studies, fine arts and physical education

Dana Bessinger and Judy Ferrell, Oklahoma Ag in the Classroom

Let agriculture guide your professional development training with lessons and resources for classroom management, student discipline, parent involvement, time-on-task, achievement and leadership. Hands-on connections to real-world situations such as “Fit with Fiber” lesson, opportunity to exercise with “Action Agriculture Across Oklahoma” DVD, and ideas to stay on task with “Back at the Ranch - transition Bell Ringers” guide this workshop.
Cattle Ranching in the Classroom

Applicable Grade Levels: K-6
Applicable Subject Areas: Language Arts, Math, Science, Social Studies, Art

Dennis Hellwinkel, Nevada Ag in the Classroom

The Romance and Reality of the Wild West excites students nationwide and this workshop will give teachers the resources to incorporate language arts, history, social studies, environmental science, art and math in this creative classroom activity.

The workshop will incorporate a brief history on how the West was settled and western ranches came about and managed today with an emphasis on stewardship of the land.

Participants will be introduced to literature, resources and activities which bring the West alive in the classroom and engage their students in an understanding of public land ranching.

Participants will learn the history of branding cattle, create and make their own branding iron, and then gather their cattle in the classroom.

Connecting Your School Garden to Curricula Demands

Applicable Grade Levels: PreK-5
Applicable Subject Areas: All Subjects

Louise Lamm, Director, North Carolina Ag in the Classroom

Ellen Gould, Curriculum Specialist, North Carolina Ag in the Classroom

As our society seeks to help young learners understand the value of healthful living, many schools across the country are allowing students to plant gardens. This trend calls for a body of instructional strategies that make strong connections between gardening and core curricula in the classrooms. North Carolina Ag in the Classroom has developed a workshop for pre-school and elementary grade teachers and students that links gardening activities to reading, writing, math, science and all other core disciplines. Join us for an overview of the agenda and a sampling of the most fertile teaching ideas.

Learning Fun We Bring from American Cuisine

Applicable Grade Levels: 2-6
Applicable Subject Areas: Social Studies, Science, Math

Shirley Lettkeman, Watonga Elementary School

America is an amazing country, from sea to shining sea, the breadbasket of the world. The presentation centers on the opportunity to travel and experience the diverse foods of our country, learning how agriculture is integrated into our daily bread.

The target lesson for the presentation focuses on a menu from a well-known American city. We will learn where the food comes from to get to our plate, while integrating many social studies skill learning activities. Social studies, math and science teachers can weave in the lessons to achieve their objectives for learning, making the process enjoyable and practical.
What the Heck Is Biotech?

Applicable Grade Levels: 3-8

Applicable Subject Areas: This presentation predominately teaches Science and English Language Arts concepts; however other subject area comprehensions are utilized throughout.

Tad Duncan & Craig Lenard, Texas Farm Bureau

This workshop provides elementary and intermediate level teachers with innovative methods of teaching genetics and heredity. Lessons provided utilize activities that allow students to link new information to prior knowledge through cooperative learning. The objective of this workshop is to successfully teach basic genetic structure, create an understanding of dominant and recessive traits, and relate these topics to production agriculture. Teachers looking for brain based teaching methods directly linked to Science and English Language Arts are invited to participate.

Gettin’ Our Hands Dirty: The Scoop on Soil!!

Applicable Grade Levels: K-8

Applicable Subject Areas: Cross-Curricular: Science, Language Arts (Reading, Writing), Math, Art, Nutrition, And Music

Lisa Dizengoff, Science Facilitator Pembroke Pines Charter School-East Campus, Pembroke Pines, Florida

The purpose of this interactive, enlightening and engaging workshop is to debunk the myth that soil is strictly something that simply holds plants up! Students will not and cannot appreciate the ecological and biological processes that sustain nearly all terrestrial life on our planet if they are not told the dirty truth about soil. Every plant and animal you can think of depends on this vast hidden ecosystem. Each shovel of soil holds more living things than all the human beings ever born. Through several cross-curricular activities, including a delicious edible dirt dessert, participants will understand how physical, chemical, and biological actions work together to create every soil on the planet. Soil scientists have identified over approximately 70,000 kinds of soil in the United States alone. It’s hard to believe that, five tons of topsoil spread over an acre is only as thick as a dime.

Florida’s Ancient Oceans

Applicable Grade Levels: K-9

Applicable Subject Areas: Science, Math, Social Studies, Language Arts, Biology, Ecology, Geology, Earth Science, Chemistry, Florida History, Paleontology, Environmental Science

Indira Sukhraj, Kate Himel, and Gary Albarelli, Florida Industrial and Phosphate Research Institute

Florida’s Ancient Oceans is an engaging out-of-your-seats learning activity that condenses four epochs of geologic time (the last 24 million years) into one hour and a half. The formational geology of Florida, changing habitat types, and ancient animals are presented, using large canvas floor maps, blue fabric for the changing ocean levels, and a menagerie of Miocene to Pleistocene puppets. The content is based on the geology and paleontology of the central Florida phosphate region. The activity will be presented in its entirety, as it would be done in the classroom, with additional time for a make-and-take and lesson plan review.
Applicable Grade Levels: PreK-2

Applicable Subject Areas: Reading

**Herbert S. Parks**, Tennessee Farm Bureau

With the urgency of reading in the early years, we as educators must find a way to integrate agriculture literacy into the classroom. Research shows that reading a book does very little to help a student retain what was read, but if you add an activity to the story read, the retention is 75-80% greater.

I will integrate activities with ag-books to increase reading academic levels while utilizing agriculture knowledge. Classroom teacher will now welcome agriculture into their reading program.

Participants will receive a supply of activities for use in their classroom.

Come read a book, do an activity, and have FUN.

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**Session 3, Friday, 10:45am-12:15pm**

**Take a Walk on the Urban Side!**

Applicable Grade Levels: 3-6

Applicable Subject Areas: Math, Reading/Language Arts, Science, Social Studies

**Kevin Daugherty & Jackie Jones**, Illinois Ag in the Classroom

Come and explore the Illinois Ag in the Classroom effort linking agriculture and the urban environment. Step away from teaching only traditional farm production and move toward integrating Farmers’ Markets, urban landscaping and horticulture, container gardens and food processing. In addition to exploring varied career opportunities, find links to videos and lessons. This session is for teachers, AITC staff and volunteers who want to learn more about incorporating urban agriculture into their curriculum and resources.

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**Any Day is Earth Day in Agriculture!**

Applicable Grade Levels: All levels

Applicable Subject Areas: All disciplines are covered, with a science emphasis

**Suzi Myers**, Kane County Farm Bureau

**Debbie Ruff**, Livingston County Farm Bureau and Soil & Water Conservation District

Join us in a fast-paced, hands-on workshop that will provide you with an arsenal of over 40 environmental activities that have an agricultural twist. Use them to teach renewable energy, trees, plants, soils, water, recycling, habitats and more any time of the year. This workshop is applicable to all levels of formal and non-formal educators. Workshop participants will receive a CD with all the lessons, games and activities. Conference attendees will receive the lessons covered during the session.
Exploring Agriscience and Agribusiness through Integrated Science and Career & Technical Education

Applicable Grade Levels: 6-9
Applicable Subject Areas: Science and Technology (Careers)

Debra Spielmaker, Utah State University, Extension: Ag in the Classroom

Description: Explore the relationship and impact of agriculture and natural resources on the economy through this middle school careers instructional unit. Learn how to access more than 20 career video segments, lesson plans, and other hands-on classroom ready resources to discover career opportunities in agricultural production and processing, horticulture, and natural resources. Resources provided in this workshop would be useful to teachers and volunteers who make career presentations.

Reading for Agricultural Information

Applicable Grade Levels: 5-8
Applicable Subject Areas: Social Studies and Geography

Carole Willis, Tennessee Foundation for Ag in the Classroom

Reading for information is a skill that can be taught using your state’s commodities and geographical differences. This fact guided our thoughts when developing “Tennesseed Travels Across Tennessee.” Tennesseed gets off of a barge in Memphis and travels across the Volunteer State arriving ‘home’ at a small farm in Mountain City. Along the journey, he sees the three grand divisions of Tennessee and the products that grow in them. Participants will receive the book and lessons that can be adapted to other states’ commodities.

Who Ate Our Corn? We Want to Know and So Should You!

Applicable Grade Levels: All levels
Applicable Subject Areas: Science

Craig Wilson, Ph.D., USDA/Agricultural Research Service (ARS) and Texas A&M University

Handle the insect and learn how to have your students grow the corn earworm (Helicoverpa zea), collect and interpret data on its life cycle. FREE class sets of insects ordered on-line at: http://www.hsi.usda.gov/CornEarWorm/main.htm

An inexpensive digital microscope will be used to show how technology can be incorporated in instruction to engage students. Examples of student work will be shared.

Also covered: food chains/webs; bats; and corn to ethanol production as impacted by the $1 billion annual damage/control efforts as a result of this insect.

Workshop activities range from plant-animal-space science.

Links to USDA/Agricultural Research Service (ARS) research scientists provided.
Growing Dendrites with Ag in the Classroom!

Applicable Grade Levels: 1-8

Applicable Subject Areas: Language Arts, Math, Science, Social Studies, Music, Art

**Virginia (Ginger) Deitz**, 4th Grade Teacher, Fargo, North Dakota

Fourth grade students will demonstrate 10 instructional strategies that, according to current research, are used to enhance learning because of the ability to activate the brain as they showcase Ag in the Classroom activities across the curriculum. My students will tell stories, use mnemonic devises, metaphors, song and dance, as well as showcase problem-based instruction, that has worked for them and made the classroom a more successful and enjoyable place.

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Growing Science Achievement with the Junior Master Gardener Program

Applicable Grade Levels: 3-5

Applicable Subject Areas: Science, Nutrition, Math, & Language Arts

**Lisa Whittlesey**, Junior Master Gardener

The Junior Master Gardener program engages children in novel, “hands-on” group and individual learning experiences that promote a love of gardening, develop an appreciation for the environment, and cultivate the mind. JMG encourages youths to be of service to others through service learning and leadership development projects and rewards them with certification. Participants will make models of science equipment like insect aspirators using safe household items to collect insects, and will complete activities highlighting basic gardening, plant parts/processes, and growing techniques. Participants will leave the session with activities they can use next week with their students.

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Ag Camp 101

Applicable Grade Levels: 3-8

Applicable Subject Areas: Science/Math/Language Arts/Art/Music/PE

**Deborah Flock**, Hillsborough County Schools

Take your students to “camp” on a budget. Through a variety of camp style activities from “cabin” competitions to “mail call” students will participate in engaging, hands-on activities as they learn how to be land managers. This camp style environment will enhance learning and teach students how everyone is impacted by agriculture and the environment. Activities and strategies can be adapted for a variety of grade levels and will meet standards across the curriculum. Students will remember this “camp” experience and the lessons learned as they evolve into caring and concerned citizens.
Make “Ag Day” a Memorable Day

Applicable Grade Levels: K-6

Applicable Subject Areas: Cross Curricular

Dana Bessinger, Oklahoma Ag in the Classroom

Gain resources, tools, and ideas to create an “Ag Day” students will enjoy and remember! Brainstorm with the presenter as you view pictures of students doing Ag activities while learning by participating in a variety of projects and activities throughout the day. Learn how to involve school personnel - cooks, custodians, teachers, and administrators as well as community leaders, in creating a day students will love, and generate well publicized PR for your school in the process!

Are You Smarter than an Activist?

Applicable Grade Levels: 8-12, adult

Applicable Subject Areas: Language Arts, Nutrition, Science, Social Studies, Environmental Science, Ag Ed

Betty Wolanyk, Ag Literacy Works

As activism has escalated from a grassroots, decentralized movement into an organized, well-funded industry and career field, public understandings have not. Students and consumers are being bombarded with well-structured, misinformation campaigns focused to market products, increase membership and donation dollars, and/or drive change. The intent of this program is to help students explore underlying messages, examine funding, and evaluate issues before deciding to join a cause, make a life-altering choice or part with hard-earned money. Examples will explore both animal agriculture and environmental issues to develop critical-thinking and decision-making skills.
**MINI WORKSHOPS**

**Session 4, Friday, 2:45pm-3:30pm**

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**Finding Your Hidden Treasures through Fundraising**

County and State AITC Staff and Volunteers  
Fundraising/Training for Volunteers and Staff  
**Kevin Daugherty**, Illinois Ag in the Classroom

During this lively, interactive discussion, we will discuss fundraising at the local level with specific examples given of some major events (Golf Outing, Bike Ride, Sporting Clays, Trivia Night) as well as smaller easier to implement local ideas. Bring your ideas and be ready to share your hidden treasures of fundraising as well. This session is geared toward those running state and county AITC Programs as volunteers and county staff.

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**Get SMART with Energy!**

Applicable Grade Levels: K-6  
Applicable Subject Areas: Language Arts, Math, Science  
Energy, Renewable and Nonrenewable Energy, Energy Conservation & Stewardship  
**Kristi Cranwell**, Cornell Cooperative Extension of Oneida County

Do you have interactive white board technology in your classroom, but lack the time to use it to its full potential? You’re not alone! This workshop will introduce elementary school educators to a ready-to-use SMART Board™ unit on energy, developed for grades K-3 and 4-6 and based on National Learning Standards. Each unit is broken down into three lessons—What is Energy, Renewable and Non-Renewable Energy and Energy Conservation & Stewardship—which can be used together as a unit, or on their own. Participants will discover how easy it is to access these ready-to-use lessons while keeping their learning fun and hands-on! Don’t worry if you don’t have access to a SMART Board™ in your classroom—we’ll also talk about how downloadable teacher’s guides for each lesson can make this a great unit to use in your classroom without an interactive whiteboard.
Science Research in Agriculture - Future Scientists Program

Applicable Grade Levels: 3-12
Applicable Subject Areas: Agriculture & Science

**Diana Collingwood**, Career & Technical Education, MDCPS

- AgriScience project-based curriculum, aligned with Florida State Standards.
- Participation in actual hands-on, inquiry-based research on agricultural insect pests.
- Teachers strengthen capacity to facilitate academic integration and improve student performance.
- Introduction to collaborative opportunities with USDA research scientist/Exposure to cutting-edge research and curriculum.
- Training in the use of scientific equipment and scientific method in the classroom.
- In-school support, access to interactive program web page, curricular & lab materials, lesson plans, and pre & post testing/analysis.

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The Wit, Wisdom, and Agriculture of Tomie dePaola

Applicable Grade Levels: PreK-5
Applicable Subject Areas: All Subject Areas

**Melissa Campbell**, Wills Valley Elementary

This workshop would interest and benefit any educator or library media specialist who works with children in Pre-K through 5th grade. Through this session, the books of Tomie dePaola will come environmentally and agriculturally alive. Participants will be exposed to several of dePaola’s books, along with book extenders incorporating a myriad of topics including pollution, farm animals, and the food pyramid.

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Garden Math Really Adds Up!

Applicable Grade Levels: K-5
Applicable Subject Areas: Math

**Suzanne Macauley**, NJ Agricultural Society

Move your math class outside! Many mathematical concepts can be taught through a hands-on approach-right in your garden. Learn fun ways to teach math to your elementary school students that demonstrate real life application of standard math concepts. Measurement, ordered pairs, area and perimeter, fractions, and even statistics can be taught using your school’s garden space. Bring your math curriculum to life by bringing it outside.
Hydroponics in the Classroom

Applicable Grade Levels: 7-12
Applicable Subject Areas: Science, Nutrition

Cindy Davidson, Youth Environmental Alliance

Hydroponics in the Classroom is an introduction to growing plants without soil. Participants will learn about this alternative farming method by constructing a simple hydroponic setup. Concepts related to basic plant parts and needs, nutrition, food production, recycling, agricultural technology and other areas come to life in these soilless growing environments. This workshop would appeal to Science, Agriscience, and Environmental educators.

“P is for Pig”

Applicable Grade Levels: K-5
Applicable Subject Areas: English, Health, Science, Arts & Crafts

Joni Wallman, Indiana Farm Bureau

What makes the “other white meat” so great? There are more to pigs than pork chops. Attendees will get hands-on lessons and ideas to showcase pork and its by-products. Volunteers and teachers will see how the ideas presented can be adapted to many parts of their curriculum and can be used at ag days and county fairs. Students and teachers alike will be surprised to learn how many products come from pigs. Bring home the bacon with handouts and resources that you can put to use immediately.

Discover the Secrets of the Garden Chef

Applicable Grade Levels: PreK-6
Applicable Subject Areas: Science, Language Arts

Tammy Maxey, Virginia Agriculture in the Classroom

Come discover the secrets to the Garden Chef’s success. Meet the garden assistants Buzzy Bee and Wiggly Worm and learn the role of each in building a bountiful garden. Discover the secrets of the Garden Chef’s prize winning healthy vegetables. Attend this workshop to learn how to integrate science and language arts into agricultural subject matter.
Agricultural Webquests: Reaching Students Online

Applicable Grade Levels: K-12
Applicable Subject Areas: Science, Social Studies, Math, Reading

Diane S. Olson, Director, Promotion and Education, Missouri Farm Bureau Federation

Time-pressed educators and program leaders are on the lookout for ready-made, themed materials to share with students. Over 40 teacher-created agricultural webquest are posted to www.mofb.org covering a wide array of topics that infuse agricultural concepts into the core curriculum.

Arranged by recommended grade levels, each topic includes live links to child safe sites, teacher page, an evaluation rubric and alignment with Missouri and National learning standards.

From conducting a virtual embryology project to photosynthesis, this unique website has something for every grade level and the curriculum. Just launch it on the Smart Board™ and the possibilities are unlimited.

The Nitty Gritty on Garden Grants

Applicable Grade Levels: K-5
Applicable Subject Areas: Language Arts, Math, Nutrition, Science, and Social Studies

Tanna Nicely and Kristy Chastine, Tennessee Foundation for Ag in the Classroom

Do you want to start a school garden but are not sure where to start? If you are a parent, teacher, or administrator who would like to know the “nitty gritty” of starting a garden at your school, this session is for you! You’ll leave with tips and tools for getting a garden started that include finding and receiving financial resources, as well as gaining administrative, parent, and community support.

Session 5, Friday, 4:00pm-4:45pm

Read Before You Plant a School Garden

Applicable Grade Levels: 4-8
Applicable Subject Areas: Language Arts, Nutrition, Social Studies, Art, Reading

Susan Ferrell, Dowdell Middle Magnet School

School gardens have become very popular in recent years. What thought goes behind which seeds will be planted? This mini-workshop based on the book Seedfolks by Paul Fleischman introduces the idea of a class garden. Students, like the characters in the book, each have a reason for the seeds they want to plant. During this session participants will read a chapter from the book, try a sample lesson plan, see completed student work and discuss ways to incorporate into their class. This mini-workshop is highly recommended for teachers of grades 4-8.
Nutrients - Do You Dig It?

Applicable Grade Levels: K-12

Applicable Subject Areas: Science, Biology, Agronomy, Environmental Science

Cindy Griffin, Nutrients for Life Foundation

Food, glorious food! Join us for a lively interactive session and receive the Nutrients for Life inquiry-based scientific curricula for all levels of education. Compare nutritional differences in plants and animals, explore properties of soil, soil plant interactions, and nutrient usage. Learn how students develop critical thinking skills and excite them with hands-on investigation including an internet module that analyzes nutrient deficiencies. Maximize your student’s learning with experiments that become effective tools in the classroom and the basis for growing a school garden.

Scent-sational Soybeans!

Applicable Grade Levels: PreK-5

Applicable Subject Areas: All Subject Areas

Mary Kensok, 4th Grade Teacher, Central Cass Schools, Casselton, ND

Did you know the US is the largest soybean producer globally? Did you know soybeans are in almost everything-- biodiesel, food for people and animals, plastics, home heating oil, clothing, printer’s ink, and more? Did you know that one acre of soybeans produces 82,368 crayons? This multi-sensory workshop will explore a wealth of ideas to incorporate information about soybeans into all content areas for the elementary learner. Color with soy crayons! Assemble a “soy toy!” Taste healthy soybean snacks! Observe soy candle making! Become familiar with soybean materials available for classroom use. Soybeans are “soy” important to life and ag education!

Cooking in the Classroom

Applicable Grade Levels: K-8

Applicable Subject Areas: Geography, Nutrition, Agriculture

Anna Lyles & Katie Buhl, Mesilla Valley Maze/Lyles Farms Foundation

Would you like to teach Geography, Nutrition and Agriculture all at the same time? You can do it by multi-tasking with these hands-on lessons that teach and entertain. 50 states = 50 mini lessons and recipes, that focus on the state commodities and their physical place in our nation. The Cooking in the Classroom Handbook, which features lessons that take 15 minutes or less, will be available on CD. We will demonstrate a few of our favorite recipes, to show you how easy it is to engage your students through food and fun.
“A” Is for Advancing Animal Agriculture

Applicable Grade Levels: 6-12
Applicable Subject Areas: Animal Agriculture, Life Sciences, Environmental Studies, Nutrition, Economics

Rod Wenzel, Project Food, Land & People

With students being bombarded by a dramatic array of emotionally charged media encouraging the rejection of animal products and by-products, learn what educational materials are available to teach about animal agriculture in your classroom. Included will be the latest series of lessons from Project Food, Land & People (FLP) that advance the facts about animal agriculture. Participants will receive an overview of the FLP lessons under development and given the opportunity to pilot these lessons. For middle and high school students, the FLP lessons address how animal agriculture is tied to current environmental, economic and social issues.

Fueling Up With New Solutions for School Wellness

Applicable Grade Levels: 4-10
Applicable Subject Areas: Nutrition, Physical Activity

Jennifer Sills, Dairy Council of Florida

Learn how your students can eat better, move more and make a difference at their school.

Objectives:

Participants:

1. Will learn about the fuel up to play 60 program
2. Will learn tips, tools and techniques to “brand” and “market” their school wellness programs, policies and services to achieve success using the fuel up to play 60 program
3. Will learn how to involve teachers, parents, students and the community in improving their school’s programs, policies and services
4. Will begin to develop an action plan for improving their school wellness promotion policies and programs

Bibliography www.fueluptoplay60.com

Fuel up to play 60 empowers students in grades 4 through 10 to engage their peers to “fuel up” with nutrient-rich foods they often lack - particularly low-fat and fat-free milk and milk products, fruits, vegetables and whole grains - and “get up and play” for 60 minutes of daily physical activity. Components, developed for and by youth, such as program curriculum, in-school promotional materials, a web site (www.fueluptoplay60.com) and youth social media partnerships, are customizable and non-prescriptive. The program’s design allows youths and schools determine which tools and resources best help them meet their wellness goals and school wellness policies. Partner-supported school grants will help schools make long-term healthy changes.
Discover the Secrets of the Garden Chef

Applicable Grade Levels: PreK-6
Applicable Subject Areas: Science, Language Arts

Tammy Maxey, Virginia Agriculture in the Classroom

Come discover the secrets to the Garden Chef’s success. Meet the garden assistants Buzzy Bee and Wiggly Worm and learn the role of each in building a bountiful garden. Discover the secrets of the Garden Chef’s prize winning healthy vegetables. Attend this workshop to learn how to integrate science and language arts into agricultural subject matter.

“P is for Pig”

Applicable Grade Levels: K-5
Applicable Subject Areas: English, Health, Science, Arts & Crafts

Joni Wallman, Indiana Farm Bureau

What makes the “other white meat” so great? There are more to pigs than pork chops. Attendees will get hands-on lessons and ideas to showcase pork and its by-products. Volunteers and teachers will see how the ideas presented can be adapted to many parts of their curriculum and can be used at ag days and county fairs. Students and teachers alike will be surprised to learn how many products come from pigs. Bring home the bacon with handouts and resources that you can put to use immediately.

Jump Start Your School Garden

Applicable Grade Levels: K-5
Applicable Subject Areas: Science, Language Arts, Mathematics, History, Art

David Pippin, Virginia Ag in the Classroom

Learn how to establish, organize and maintain a learning garden on a K-5 school campus. Container gardens? Raised beds? Themes? Tools? Crops? Maintenance? Security? There are so many questions! Put your mind at ease by learning the basics about school gardens during this fun-filled, action-packed workshop. And remember, the garden is not just for science. Use the garden to teach math, language arts, history, and art. A school garden grows healthy kids.

Planting a Garden, Growing a Mind

Applicable Grade Levels: K-5
Applicable Subject Areas: Language Arts, Math, Nutrition, Science, and Social Studies

Kristy Chastine and Tanna Nicely, Tennessee Foundation for Ag in the Classroom

Are you looking for fun, hands-on activities to incorporate into your existing classroom curriculum? Gardening is an excellent tool for teaching all subject areas. This session is for the educator who has an outdoor garden, inside garden, or simply dreams of having a garden. This session is full of curriculum ideas centered around gardening.
**ROUND TABLE PRESENTATIONS**

**Session 6, Saturday, 8:45am-9:30am**

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**Corn: Myths, Facts, and Fun**

Applicable Grade Levels: K-6

Applicable Subject Areas: Science, Social Studies, and Language Arts

**Rhodora Collins**, DeKalb County (IL) Farm Bureau

Whether you live in a corn-producing area or not, corn impacts your daily quality of life. Foods, paper, fuel, plastics… this a-maize-ing, renewable, natural resource crops up everywhere. This roundtable presentation will investigate a few consumer misconceptions about corn, introduce new corn resources, and provide engaging, tactile teaching ideas. Teachers, AITC contacts, and volunteers will benefit most from this workshop.

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**Meet Ms. Cotyledon!**

Applicable Grade Levels: 1-4

Applicable Subject Areas: Language Arts, Nutrition, Science

**Virginia Deitz**, 4th grade teacher, Fargo, North Dakota

Watch a fun skit as Ms. Cotyledon dresses as a well prepared hiker to teach about the parts of a seed and their functions. This seedy character also includes a hand-on activity that explains that she and seeds have a lot in common. This science activity has been enjoyed by many students in various classrooms and community events.

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**Fondue Fun**

Applicable Grade Levels: All Levels

Applicable Subject Areas: Language Arts, Nutrition, Science, Social Studies

**Cindy Griffin**, Broward County Public Schools

Goal: To demonstrate how teaching Florida agriculture can be fun and tasty

Dipping Florida fruit into chocolate, dissecting a candy bar, and analyzing candy via a language arts activity will demonstrate the connection between Florida Agriculture products and chocolate. The Florida Ag in the Classroom lesson Loco for Coco affords teachers many opportunities to keep students engaged while tasting chocolate.
Session 7, Saturday, 9:45am-10:30am

Who Grew My Soup?

Applicable Grade Levels: K-4
Applicable Subject Areas: Math, Reading/Language Arts, Science, Social Studies, Art, Nutrition

Jackie Jones, Illinois Ag in the Classroom

Join us for this "souper" fun roundtable as Phineas Quinn takes us on a journey to find out where the ingredients in his vegetable soup come from. We'll follow Phin and magical Mr. Mattoo as they fly from farm to farm, learning about amazing vegetables and the farmers who grow them. Teachers and volunteers will leave this roundtable with practical lessons and make-n-takes ready to use in the classroom.

Ag in a Bag

Applicable Grade Levels: Intermediate & Primary Elementary
Applicable Subject Areas: Science & Ag Education

Mary Kensok, 4th Grade Teacher, Central Cass Schools, Casselton, ND

Get ready to learn about North Dakota agriculture! While ND is the 4th least populated state per square mile, it ranks #1 in the production of 15 agricultural commodities in the nation (2009 USDA Stats)! Join this engaging hands-on roundtable session of learning about common Midwest grains. Each participant will leave with a "deck" of cards illustrating common grains grown in the midwest, trivia to boost your knowledge base, and a bag FULL of goodies to support your mission of educating youth about agriculture’s role in learning & life!

Fun with Seed Packs

Applicable Grade Levels: K-5
Applicable Subject Areas: Science

Lynn Stadelmeier, Virginia Ag in the Classroom

Learn new ways to utilize and repurpose seed packs in the classroom. Roundtable participants will take home a new germination activity as well as extensions for math and language arts. Come join the fun and sprout success in your classroom!
MAKE & TAKE FAIR ACTIVITIES

Saturday, 8:45am-10:30am

Soil Sundaes

Applicable Grade Levels: K-6
Applicable Subject Areas: Science, Nutrition, Math, Language Arts

Melissa Campbell, Wills Valley Elementary School

This make and take edible concoction is designed to teach students the layers of the soil. Easy to create and fun to eat, this recipe will interest educators, administrators, state contacts, and commodity representatives alike.

3D Pumpkins

Applicable Grade Levels: K-6
Applicable Subject Areas: Nutrition, Science and Art

Brianne Foster, Illinois Ag in the Classroom Coordinator, Wayne County Farm Bureau

This simple craft is one of the most popular presentations I do in the fall. Teachers and students love assembling a 3D craft and creating their own classroom “pumpkin patch.” This activity is perfect for any educator that will discuss the pumpkin industry, pumpkin plant growth, pumpkin history, and many more pumpkin-related topics. Each participant will receive the materials to make one 3D pumpkin along with instructions and ideas of how to incorporate pumpkins into their curriculum.

All Around the Farm

Applicable Grade Levels: K-3
Applicable Subject Areas: Math, Reading/Language Arts, Science, Art

Jackie Jones, Illinois Ag in the Classroom

Create your own portable farm incorporating math, science and language arts activities. We’ll show you how to make a quick and easy barn book to use in your classroom! This session is geared toward teachers, AITC staff and volunteers.
Iowa in a Pocket

Applicable Grade Levels: PreK-2
Applicable Subject Areas: Science, Social Studies, History, Art

Beth McGrath, Iowa Farm Bureau Federation

This presentation focuses on the key commodities that make Iowa one of the United States most important agricultural states. This activity is a hands-on way to introduce primary students to agriculture in your state. In the activity they will make a farm-themed manipulative that will be used to sort and match plants and animals that farmer’s grow. Target audience is primary teachers in need of a hands-on activity to practice sorting and teach similarities and differences.

Suck-A-Bugs with the Junior Master Gardener Program

Applicable Grade Levels: K-8
Applicable Subject Areas: Science & Math

Lisa Whittlesey, Junior Master Gardener

Insects are some of the most interesting and diverse creatures on the planet. We can learn a great deal from insects when we study them up close, but first we have to catch them! You will make a simple insect aspirator, or “bug sucker,” to take with you. You’ll learn how to have students make their own inexpensive bug suckers to collect small insects without ever touching them. This memorable lesson will allow students to collect data, classify insects, become lady bugs to determine the rate aphid consumption and even study the diversity of life that make compost piles work.

Ladybug! Ladybug!

Applicable Grade Levels: K-3
Applicable Subject Areas: Science, Writing, Reading, Math

Dewandee Neyman, Alabama Ag in the Classroom

Attendees will learn activities to explore how ladybugs grow and change through their life cycle and enhance learning in science and writing.
Dirt Babies aka Incredible Shrunken Heads

Applicable Grade Levels: K-8
Applicable Subject Areas: Science, Art & Math

Susan Ferrell, Dowdell Middle Magnet School

Learn about the effects of the apical meristem on the growth of grass plants while creating a wonderful take home craft. Or in simple language, “Make your own Shrunken Head!!” Using a knee high stocking, cup of potting soil, grass seed, ½ plastic water bottle, and glue on accessories, create a shrunken head that grows green hair. Students will become “hair stylists” as they cut the continually growing hair of their shrunken head.

Water Cycle in a Bag

Applicable Grade Levels: K-6
Applicable Subject Areas: Language Arts, Math, Nutrition, Science

Emily White, Leon Sheffield Magnet School

Use this hands-on approach to show students of all ages how the water cycle works. Using a zip-loc bag, permanent markers water and aquarium rocks, your students can “make” the water cycle! A song with motions for the younger students, and very detailed diagrams for the older ones, make this a sure hit with all ages. Without water, we would not have agriculture!

High Five for Healthy Eating

Applicable Grade Levels: K-4
Applicable Subject Areas: Science

Linda Danos, Louisiana Farm Bureau Federation

Learn about the five major food groups in the USDA Food Guide Pyramid with this fun, ‘handy’ activity in which you draw your hand on a sheet of paper and color each finger to match the color of the five food groups i.e. fruit, vegetables, grains, milk and meat/beans.

Quilting Agriculture

Applicable Grade Levels: 3 - 12
Applicable Subject Areas: Math, Science, Social Studies

Donna Oliver, Maine Ag in the Classroom

A system for students grades 3 and above to create quilt squares with agricultural themes. When the squares are assembled they will portray a cross section of agriculture in the country, state or community. Each participant will receive their own square with directions to finish into a pillow for framing. Instructions for the finished quilt will also be supplied.
The Germinator

Applicable Grade Levels: 2-7
Applicable Subject Area: Science

Danielle Daum, Happiness Farms, Inc.

Gathering and charting data on root and shoot growth is fun with these quick and easy seed germinators. Using CD jewel cases, a coffee filter and seeds, we will create a habitat conducive to germination that will also allow students to view and chart the root and shoot growth of their plants. This activity is ideal for classroom settings, as well as a make & take for ag days and fairs.

Bee Bingo

Applicable Grade Levels: 2-5
Applicable Subject Areas: Language Arts, Science & Math

Frances Strawn, Deep Creek Ranch, Inc

Through Bee Bingo, students will learn just how many fruits, vegetables, herbs and/or nuts that they eat and rely on bees for pollination.

Link ‘ems - By-products are a Valuable Part of Agriculture!

Applicable Grade Levels: 4-6
Applicable Subject Areas: Social Studies

Judy Culbertson, California Foundation for Agriculture in the Classroom

How well do you know your by-products? Walnuts? Wool? Corn? Link each raw commodity in the bag with its by-product. Try this fun activity with students or in a teacher workshop!

Classroom Chicken Coop

Applicable Grade: K-3
Applicable Subject: Science, Art

Heather Davis, New York Agriculture in the Classroom

Chickens may not be the best animal to choose as an classroom pet however, this Make n’ Take activity will demonstrate how to turn a boring set of cubbies or cardboard boxes into a lively, classroom chicken coop with no clean up required. The classroom chicken coop can be a great prop when teaching about life cycles while building a connection to agriculture.
Wear Your Food in Style

Applicable Grade Levels(s): K-5 Grade

Applicable Subject Area(s): Nutrition

Ellen Gould & Louise Lamm, North Carolina Farm Bureau

Here’s a fast, colorful, and effective reminder of daily nutritional requirements provided by MyPyramid. Join us and create a colorful bracelet designed to keep the wearer in touch with servings needed from each food group, recommended physical activity, and the fact that all food comes from the farm. This Make & Take is of interest to educators who include in their curricula healthful living lessons designed to fight childhood obesity and help young learners establish habits for a full and healthy life. The MyPyramid bracelet featured in this session compliments efforts to incorporate healthful living into the school day.

My Hand Plants

Applicable Grade Levels: K-3

Applicable Subject Areas: Math & Science

Lorri Brenneman, Montana Department of Agriculture

Students learn to sort and recognize different shapes and sizes of seeds and then make a seed planting template. Inquiry for students is based upon seed sprouting pattern in the shape of the student’s hands and the plants growth cycle. Plant growth can be examined by the student in the classroom or at home as these templates are very easy to transport.

Agriculture - The Real Game of Life

Applicable Grade Levels: 1-5

Applicable Subject Areas: Math & Social Studies

Scott Christmas, Kentucky Farm Bureau

We all have needs and wants which are on the mind of every child and adult. This short exercise will demonstrate the true value of agriculture through a fun and educational game. The game will illustrate how all of us as individuals have to make choices with our money and time. Social studies and mathematical concepts will be heavily addressed in this entertaining and unique learning opportunity.
Grains of the World

Applicable Grade Levels: 4-9
Applicable Subject Areas: Language Arts, Science & Math

Alisha Hill, Utah Ag in the Classroom

This hands-on activity explores grains common in global agricultural production - barley, corn, oats, rice, soybeans and wheat. Students create their own grain booklets that include important facts, descriptions, and samples of the grains. Students will explore grains that have contributed to the development of civilizations and world trade. Teachers can use the information to expand students' knowledge of grains as they compare and contrast what's used in their breakfast cereal, fueling their cars, and being traded on the world market. This kit contains enough seeds for a classroom of 35 students. A master copy of the grains information cards is also included.

Download Grains of the World Journal

Sing a Song of Soil

Applicable Grade Levels: K-4
Applicable Subject Areas: Science, Language Arts, Music

Donna Hellwig Rocker, Georgia Farm Bureau and Agriculture in the Classroom

This is a “singable” make and take. It will help reinforce the process of how soil is formed and how all of us need to follow the example of our farmers and care for the soil.

Painting with Soil... “Dirt Shirts” and more

Applicable Grade Levels: K-12
Applicable Subject Areas: Science, Visual Arts, Music

Ginny Paarlberg, Florida Farm Bureau Women’s Leadership Committee

Soil types are an important foundation to agriculture. Soils also make contribute to the beautiful colors we see in nature every day that many of us forget to appreciate.

Green Eggs and Agriculture

Applicable Grade Levels: K-5
Applicable Subject Areas: Science, Nutrition, Math, Language Arts

Michelle Williamson, Florida Farm Bureau Women’s Leadership Committee

By incorporating the timeless literary works of Dr. Seuss with agriculture, your students will be able to retain what they read by associating it with other subject areas outside of language arts alone. This make & take will expose you to a number of hands-on activities, each connected with a Dr. Seuss book. You will also have the opportunity to build your own mini-greenhouse, one of six lessons that can be used with “Oh Say can you Seed?”
TRAVELING WORKSHOP DESCRIPTIONS

Thursday, 8:30am-6:00pm (8:00-8:30am -- Board Buses)

Traveling Workshop 1 - Beef and Dairy

Learn about Florida’s beef and dairy industries on this tour when you visit Adams Ranch and J.M. Larson Dairy. Adams raises Braford, Arrab, Abeeef and Argel cattle on 65,000 acres. Adam’s own Braford breed can endure Florida’s extreme heat, humidity and insects. After touring Adams Ranch and eating lunch, you’ll head to J.M. Larson Dairy where you will tour its state-of-the-art facility and see some of its 6,000 head of cattle. Be prepared for a two-hour ride to Adams Ranch. But it’s only 15 minutes to the dairy. Also, wear comfortable, closed-toed shoes or tennis shoes and be prepared to go on a walking tour of the dairy.

Traveling Workshop 2 - Tropical Plants, Palm Trees, Rice Packinghouse

Learn about Florida’s tropical plant, tropical tree and rice industries on this tour. You will learn about Michael’s Nursery’s large varieties of tropical plants in its lavish greenhouses and shade houses. Next you will visit Southeast Growers nursery of large tropical trees and palms and its themed varieties of Amazonian and Asian trees. You will eat lunch at the Everglades Research Center where you will learn about sugarcane and vegetable projects. Next you’ll visit Sem-Chi Rice packinghouse where you will see how rice grown in nearby fields is packaged and marketed. Be prepared to go on walking tours of the facilities so wear comfortable closed-toed shoes or tennis shoes.

Traveling Workshop 3 - Bougainvilleas, Palm Trees, Vegetables

Learn about Florida’s bougainvilleas, tropical and palm tree and vegetable industries on this tour. You will tour Bougainvillea Growers International facility, which grows more than 20 varieties of the flowering plant. Next you’ll visit Southeast Growers nursery of large tropical trees and palms and its themed varieties of Amazonian and Asian trees. You will eat lunch at the Everglades Research Center where you will learn about sugarcane and vegetable projects. After that, it’s a stop at Roth Farms where you will learn about South Florida’s winter vegetable season and the farm’s production of lettuce, leafy vegetables, herbs, radishes, sugarcane, sweet corn, green beans, field grown palm trees and rice. Be prepared to go on walking tours of these facilities so wear comfortable, closed-toed shoes or tennis shoes.

Traveling Workshop 4 - Orchids, Tropical Wine, Bromeliads

Learn about South Florida’s unique orchid and bromeliad industries and sample some wine made from tropical fruit on this tour. You’ll see exotic orchids and tropical birds at R.F. Orchids, South Florida’s oldest orchid nursery. You’ll eat lunch at Schnebly Redland’s Winery where you will receive a tour and wine tasting. (There’s a nominal fee for the tasting.) Next you will visit Kerry’s Bromeliads and learn about the varieties of bromeliads and orchids its sells around the country and world. Be prepared to go on walking tours of these facilities so wear comfortable, closed-toed shoes or tennis shoes.

Traveling Workshop 5 - Bromeliads, Tropical Wine, Orchids

Learn about South Florida’s unique bromeliad and orchid industries and sample some wine made from tropical fruit on this tour. You will visit Kerry’s Bromeliads and learn about the varieties of bromeliads and orchids its sells around the country and world. You’ll eat lunch at Schnebly Redland’s Winery where you will
receive a tour and wine tasting. (There’s a nominal fee for the tasting.) You’ll see exotic orchids and tropical birds at R.F. Orchids, South Florida’s oldest orchid nursery. Be prepared to go on walking tours of these facilities so wear comfortable, closed-toed shoes or tennis shoes.

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**Traveling Workshop 6 - Tropical Fruit, Spices, Tropical Fruit Trees**

Learn about South Florida’s unique tropical fruit and tropical fruit tree production on this tour. You’ll go on a tour of Brooks Tropicals’ packinghouse where you will see how it packages and ships 30 different varieties of avocado, papayas, carambola (starfruit) and other varieties of tropical produce. You will eat lunch at the Fruit and Spice Park where you will see how 500 varieties of tropical fruits, vegetables, spices, herbs and nuts are grown. Next you will visit Pine Island Nursery where tropical fruit, nut and spice trees are grown. Be prepared to go on a walking tour of these facilities so wear comfortable, closed-toed shoes.

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**Traveling Workshop 7 - School Greenhouse, Spices, Tropical Fruit**

Learn how a Miami-area school paid for a greenhouse using conservation techniques and about South Florida’s unique tropical fruit, nut and spice production on this tour. You’ll tour Coconut Palm K-8 Center’s greenhouse and other agriculture-related projects before going to the Fruit and Spice Park where you’ll eat lunch and see how 500 varieties of tropical fruits, vegetables, spices, herbs and nuts are grown. Next, you’ll tour Brooks Tropicals’ packinghouse where you will see how it packages and ships 30 different varieties of avocado, papayas, carambola (starfruit) and other varieties of tropical produce. Be prepared to go on walking tours of these facilities so wear comfortable, closed-toed shoes or tennis shoes.

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**Traveling Workshop 8 - Ecosystem, Tropical Plants, Hurricane House**

Learn about South Florida’s ecosystem, history, tropical plant production and see its ‘Hurricane House’ on this tour. You will visit Secret Woods Nature Center where you will tour a hardwood hammock and a tidal wave area. Next you will visit In Living Color Nursery where you can purchase exotic tropical plants and gardening supplies. You will have lunch at the Old Davie Schoolhouse and learn about the first permanent school in the Everglades and the history of the pioneers’ westward movement into the Everglades. Next, you will visit the Fort Lauderdale Research and Education Center where you see a large termite nest and a ‘Hurricane House,” which is specially built to withstand hurricane-force winds. Be prepared to go on walking tours of these facilities so wear comfortable, closed-toed shoes or tennis shoes.

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**Traveling Workshop 9 - School Animal Program, Aquarium Plants, Herb Farm**

Learn about an inner city school's animal rescue program, and the unique niches an aquarium plant nursery and herb farm created on this tour. You will visit South Plantation High School where teachers and students work with abandoned animals such as Macaw parrots, snakes and alligators. Next you will visit Florida Aquatics, a nursery that specializes in aquarium and water garden plants. You will eat lunch at the Long Key Natural Area and Nature Center where you will learn about Tequesta and Seminole Indian history. Next you will visit Flamingo Road Herb Garden and Nursery where you will tour its herb farm where it grows arugula and basil and other fresh herbs and visit its nursery where you can purchase exotic plants. Be prepared to go on walking tours of these facilities so wear comfortable, closed-toed shoes or tennis shoes.