

Wednesday, April 25th Morning Session Options – Session Times 8:45 a.m. to 11:30 a.m.

Session: Garden Stepping Stones (Part I)

How Landscaping Materials Can Influence Soil pH (Part II)

Presenters: Betsy Perkins/Arlene Hausmann (Part I)
Tracy Branam (Part II)

Location: Art Room Class Limit: 25

Targets grades K- 12 with an emphasis in Math, Art and Geology

Description (Part I): All gardens are enhanced by beautiful nature stepping stones. Come and make a circular stepping stone/paper weight using tiles and/or stained glass in mathematical patterns or nature designs. Students can learn about π and circumference as well as patterns and proportions from this activity. Come with a simple design or pattern in mind.

Description (Part II): Many people do not realize that adding to the landscape can alter the soil pH. Sometimes this is good, sometimes not so good. The workshop will consist of a brief discussion of composition of landscaping materials followed by several actual observation and data collections by the participants using a pH electrode and meter to measure mixtures of water and various types of soils, landscaping stones and crushed rock. The final segment will consist of observing what happens when water equilibrated with the most reactive landscaping materials to a stable pH is added to soils. These demonstrations are designed to provide a visual way to examine the reactions taking place between water, soil and reactive mineral matter. Participants will generate their own list of pH values for the common landscaping materials used in the workshop.

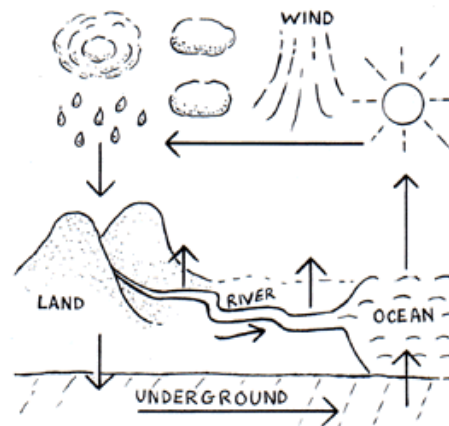
Session: Outdoor Adventure Skills: Weather, Night Experience & Knot Tying

Presenter: Matt Rota-Autry

Location: Elm Room Class Limit: 20

Targets grades K-12

Description: We will discover and interpret some of the variety of features visible in our weather systems and our solar systems. The “Knot” class provides descriptions, purposes and opportunity to tie knots. Although the session can not possibly cover everything, we hope that we will pique your interest and give you the tools you need for teaching and enjoyment of some outdoor adventure skills.



Session: Have We Made A Difference?

Presenter: Jim Eagleman

Location: Birch Room Class Limit: 20

Targets grades K-12 with an emphasis in Science and Language Arts

Description: A 20 year celebration of this program is a good time to assess the effectiveness of our programs. Have they allowed sufficient opportunity for educators to observe and participant in hand-on learning? Did teachers have exposure to critical thinking of environmental issues or was it simply a “day off” from the class room? Were teacher’s expectations met? More importantly, will educators who attend this environmental training feel adequately prepared to incorporate Indiana natural resource education into the Science Curriculum? Participants are encouraged to read Richard Louves “Last Child In The Woods: Nature Deficit Disorder”. This book’s test will be used for discussion purposes during this session.

Session: CSI: Camp Scene Investigations

Presenter: Cathy Meyer

Location: Main House Class Limit: 20

Targets grades K-12 with an emphasis on Science and Language Arts

Description: What animals live here and what are they doing? Use clues left behind to find out which wildlife was here and why. We will take a hike to see what we can find and process our observations.



Wednesday, April 25th Afternoon Session Options – Session Times 12:45 p.m. to 3:30 p.m.

Session: Indiana Geodes

Presenter: Ann Richardson

Location: Art Room Class Limit: 15

Targets grades K-12 with an emphasis on Science (Geology)

Description: The mystique surrounding Indiana Geodes has long challenged geologists to explain their existence. Participants will collect information on the origin and geology of geodes, learn where and how to collect them, make inferences after viewing specimens, and participate in a field trip to the geode bed on the Waycross Camp grounds to collect a take-home souvenir.

Note: Participants are encouraged to wear hiking boots or old shoes.

Session: Challenge Course

Presenter: Kathy Henchey

Location: Elm Room Class Limit: 20

Targets grades 6-12 with an emphasis in Social Skills and Problem Solving

Description: We will show how the low ropes and challenge course help students learn to problem solve, work together and develop leadership skills while working toward a common goal. You will have a chance to try all activities.



Session: “Places We Live”

Presenter: Sam Carman and Ron Dixon

Location: Birch Room Class Limit: 20

Targets grades 6-12 with an emphasis in Social Studies and Science

Description: PLT’s new interdisciplinary curriculum supplement “Places We Live” focuses on problem solving exercises that give students an awareness of the environmental, social and economic impacts for community change. Activities are correlated to national and state standards in social studies and science. Participants will receive a copy of this new book.

Session: Bats

Presenter: Warren Gartner

Location: Main House Class Limit: 35

Targets grades K-8 with an emphasis in Science

Description: Bats are some of the most misunderstood animals in Indiana. They are the most diverse group of mammals, adapted to all types of habitats and foods. Activities will use hands-on inquiry to explore and observe adaptations, interdependence of bats and the plants and animals in their habitats, as well as the biological and economic benefits of bats to people. Lots of resources and activity ideas!

The climbing wall and zip line will be open from 4:00 to 5:30 p.m. You are welcome to participate (or watch) in this fun activity. Meet in the Assembly Room (registration area) at 3:45 p.m.

Celebrate 20 Years of Environmental Education Excellence

Wednesday Evening, April 25th ~ Waycross Camp at Dixon Hall ~ 6:00 p.m.

You are invited to join in the 20th year anniversary celebration! Come and renew old friendships or make new ones, or take a walk down memory lane through the past years’ workshops. Past facilitators, participants and staff/committee members are all invited to join us. Food will be provided (hot dogs, chips, drinks).

In order to adequately prepare for the food, please indicate on the registration form if you plan to attend the festivities. There is **no** additional charge.

Thursday, April 26th Morning Session Options – Session 8:45 a.m. to 11:30 a.m.

Session: Literature into Science

Presenter: Sue Engledow & Becky Cheetham

Location: Art Room Class Limit: 25

Targets grades 4-8 with an emphasis in Science and Language Arts

Description: Take your kids on a science adventure without ever leaving the classroom. Use literature and picture books to bring your curriculum to life. We will explore how books such as *Diary of a Worm*, *Shamen's Apprentice*, *A River Ran Wild* and *Lily's Purple Plastic Purse* can be used to enhance and reinforce concepts in your classroom or group activities. Books such as *There's a Hair in my Dirt* by Gary Larson and *White Wolf* can be incorporated into your curriculum for older kids. Activities that correlate with these books will also be explored. These are just a few of the titles that will be discussed. All of these books highlight the importance of the diversity of life and present different approaches to making observations and inferences about the world around us.

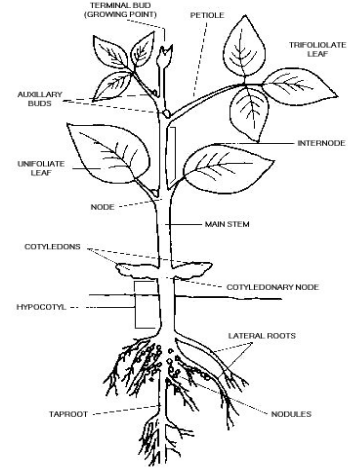
Session: The History & Mystery of the Amazing Soybean

Presenter: Martha Miller

Location: Elm Room Class Limit: 15

Targets grades 5-10 with an emphasis in History, Math, Sciences and Language Arts

Description: What do you know about the soybean? In this session learn how and when the soybean came to America. Find out who discovered its conservation benefits. You will be amazed at the products that are made with soybeans! In a hands-on activity participants will make a soybean product to take home.



Session: There's a Skyscraper on My Grandfather's Oak Tree

Presenter: Bob Eddelman

Location: Birch Room Class Limit: 25

Targets grades 4-12 with an emphasis in History

Description: This session builds on the fact that the felling of the first tree by the colonists in the early 1600's began a nearly 300-year era of the most wanton and wasteful use of land and natural resources in the history of mankind. Finally, in the late 1800's there was general recognition that no more land remained in the United States for people to move to and an era of conservation and rebuilding of devastated land, water, forests and the natural environment began. This session covers that history and includes discussions of the environment and how living organisms live together to provide for a healthy and productive land to produce food and fiber for our growing population. It also includes topics like soil and water conservation districts, establishment of national and state parks, forests, seashores and the general building of a conservation ethic in the American people.

Session: Project WET Sampler

Presenter: Angie Tilton

Location: Main House Class Limit: 30

Targets grades K-12 with an emphasis in Science, Language Arts, Social Studies, Math

Description: Children learn by doing! Come see how the Indiana Project WET (Water Education for Teachers) program engages students with hands-on, scientific investigations that teach important concepts about Earth's most precious natural resource—water! Already familiar with Project WET? Come learn what's new and get some fresh ideas to incorporate into your classroom or program today! Activities have been correlated to the Indiana Academic Standards.



Thursday, April 26th Afternoon Session Options – Session 12:45 p.m. – 3:30 p.m.

Session: Art Sampler

Presenter: Pat Cooper

Location: Art Room Class Limit: 20

Targets grades K-8 with an emphasis in Fine Arts, Science and Language Arts

Description: Explore ways to combine science, art and language arts using activities from Indiana Department of Natural Resources education programs. We will create a variety of projects and participants will receive handouts for many others.



Session: Making Indiana Science Standards Come Alive

Presenter: Mark Weaver

Location: Elm Rom Class Limit: 20

Targets grades K-8 with emphasis on Science

Description: Especially now when the stakes are even higher in science education this session will deal with IDOE Science Standards. The activities will be both indoors and outdoors, but classroom formatted. Each participant will receive a copy of each activity and some supplies for participants to be able to do the activity with their students. Note-taking and discussions will be encouraged. Some activities might seem quite simple and basic, while others might be a bit more complex. From the constructing of a make-shift prepared microscope slide to an aquarium cloud chamber to a raw cheese ball or enhanced maple syrup—we'll try these activities and more!

This program was written by Mark Weaver and presented around the state when he was with the IDOE. Mark was the 2005 Indiana Teacher of the Year.

Session: Food, Land & People

Presenter: Cheryl Hamilton

Location: Birch Room Class Limit: 20

Targets grades 4-5-6 with an emphasis in Science

Description: Do your students think food comes from the supermarket? Food, Land and People is a program designed to get children into agriculture. Come participate in hands-on activities.



Session: A Picture of a Place: GIS/GPS and Inter-mapping Skills

Presenter: Cindy Beckner

Location: Main House Class Limit: 30

Targets grades K-12 with an emphasis in Math, Science, Geography Social Studies and Language Arts

Description: A map is a picture of a place. Utilizing GIS (Geographical Information Systems), GPS (Global Positioning System) and Interactive Mapping Skills this science site provides easy to use technology-based lesson plans. Example lesson plans contain the appropriate grade levels, goal, objectives, Indiana Academic Standards, needed materials including Web sites, needed time, procedures, assessment, and extensions. Lessons include using a satellite image to explore a community, exploring the ways man has viewed the surface of Earth, introducing and using remote sensing sites to collect data, and how elevation affects drainage patterns. Exploring maps with students will learn basic map making and map reading skills and will see how maps can answer fundamental geographic questions and is organized around geographic themes: location, place, relationships, movement, and regions. Students will compare a variety of maps including shaded relief, aeriels, infrareds, and topographic maps. The lessons center on a story about a girl named Jenack who learns to use maps to help save a nature habitat from encroaching development.