

Friday Schedule:

7:00am-7:00pm Registration/Information Desk Terrace Lobby

7:45am-8:15am Light Continental Breakfast for Workshop Participants -
(Near Registration)

9:00am-4:00pm Workshops - Clarion (Workshop Descriptions see below)

9:00am-12:00pm Outdoor Center Symposium Clarion

12:00pm – 1:00pm Lunch for Workshop Participants

9:00am-3:00pm Exhibit Hall Set-Up Grand Ballroom

5:00pm-7:00pm Exhibit Hall - SNEAK PEEK Grand Ballroom

7:30pm-9:00pm Conference Opening and Keynote Crystal Ballroom

9:00pm-11:00pm Exhibit Hall Social - Cash Bar and Light Fare Grand Ballroom

Friday Full Day Workshop

(9:30am - 3:30pm)

MD Master Naturalist Program Facilitators Training

Piedmont or Coastal Plain regions

Wanda MacLachlan, MD Master Naturalists

Lunch is included. Limit 30 participants

MAEOE in partnership with the University of Maryland Extension Master Naturalist Program is offering the following Full Day Professional Development opportunity: **MD Master Naturalist training for program facilitators**. Become a University of Maryland Extension Master Naturalist Program Facilitator and learn to administer the science-based volunteer training program at your local facility.

Those wanting to be able to train volunteers as naturalists at their sites in the Piedmont or Coastal Plain regions of the state will be able to train at the MAEOE Conference.

This is a 6-hour Program Facilitator Workshop. If your center is interested in hosting the MD Naturalists program, and your center is located in the Piedmont or Coastal Plain regions, you may send a participant to this 6-hour Program Facilitator Workshop to learn to organize and administer a Master Naturalist Training Program. The program facilitator will need to commit to working closely with the state Master Naturalist program coordinator to ensure continuity in the program.

Friday Morning Workshops (9:00am - 12:00pm)

How to Grow a Green School

Joanne Schmader, MAEOE

Educate and excite teachers about the Maryland Green School Program and its benefits for their school. Why Should My School Become A Maryland Green School? How will this program help my school meet state environmental literacy standards and the state high school graduation requirement? What are the academic, environmental and other benefits of becoming a green school? The workshop includes a detailed explanation of the application requirements and process, provides many ideas, examples, and resources to help you plan for your school.

Boat Over Boat Canoe Rescue Training

Frank Marsden, Eden Mill Nature Center

Limit 16 participants

This workshop will teach the skills to safely empty a capsized canoe and assist paddlers back into their canoes in deep water. Several entries will be taught that will enable all individuals with various abilities to reenter the canoe. Basic strokes will be taught, all participants will be both the rescuer and victim. Participants will be getting wet. PFDs and all equipment will be supplied. American Canoe Association Instruction. All participants that successfully complete this, will receive a certificate that will give them the opportunity to complete a full, 1 day, ACA canoe course at Eden Mill Nature Center in the Spring.

Lights Camera Action!

Using Digital Tools to Teach Environmental Education

Denise Frebertshauser, University of Maryland Extension

Participants will explore the use of digital video production as a multimodal method of topic exploration for students' inquiry projects. Curriculum resources and web links will be provided for participants to confidentially conduct their in or afterschool digital media work. This is a hands-on class! Participants will have the opportunity to utilize a digital video camera, practice framing, and develop a project using video production software. Participants will explore the use of the digital video production as a multimodal method of topic exploration for students' inquiry projects. The use of digital video production enables storytelling and provides students with a concept of audience for their work.

Engaging Youth in Ecology & the Natural Environment through Art & Nature

Desiree Shelley, Parks & People Foundation

Educators (formal and informal) will learn through visual, written and performing arts how to engage and educate students about ecology and their natural environment as well as connect them to nature. Lessons are aligned with the Maryland Core Learning Goals and Curriculum Standards. The presentation highlights 3 pilot programs that served upper elementary and middle school youth in Baltimore City Public Schools and a high school program serving young adult Baltimore city youth participating in a youth workforce and green career development program. Presentation includes demonstrations in several different art & nature projects and lesson plans as well as suggestions and tips on how to make environmental education lessons interdisciplinary in academic subjects such as science, math,

reading/language arts and social studies and how to translate these topics into visual and performing arts projects that engage students on a creative level. The workshop will conclude with a round table discussion and hands-on participation. Participants will make their own “Art & Nature” project and discuss new ideas and ways to combine art, nature, environmental literacy and academic skills.

Planning Ahead: Hands- On Activities that Teach Sustainability Concepts

Thomas Hutson, University of Maryland Extension

This workshop will share a variety of hands-on activities that help youth ages 8 through 18 explore environmental issues and learn techniques for living a more sustainable lifestyle. The workshop will investigate several issues that pose threats to sustainability. The presentation will include a set of lessons that feature hands-on experiential learning opportunities for educators to use with youth. Goals of the workshop include (1) increasing environmental literacy, (2) understanding sustainability topics, and (3) equipping Maryland citizens with strategies that help them lead more sustainable lifestyles. Participants will receive print copies of and/or internet access to lesson plans for each activity.

Chesapeake Exploration – Online Activities for Exploring Chesapeake Bay Data

Bart Merrick, NOAA Chesapeake Bay Office

This workshop will introduce and train educators on the use of the fully functional Chesapeake Exploration system. Participants will learn how to work with Chesapeake Exploration, a set of online activities that provides unprecedented access to Chesapeake Bay Data and brings the science of the Chesapeake Bay to life. The session will be a combination of formal presentation and hands-on training with activities from Chesapeake Exploration. NOTE: Participants should bring a laptop with WiFi to access and utilize the curriculum.

Flying WILD Educator Training

Kimberly Check, Ward Museum of Waterfowl Art, Salisbury University

The purpose of the Flying WILD program is to engage middle schools in bird education efforts with the intent of encouraging increased environmental stewardship among youth. Special emphasis is placed on creating an approach that is readily adaptable for urban schools, often with underserved students who traditionally receive few opportunities to participate in environmental education initiatives. During this 3 hour training, educator’s will learn how to integrate bird education and conservation activities into school curriculum and other educational programming in an engaging, successful, and academically purposeful manner. In addition to receiving the Flying WILD: An Educator’s Guide to Celebrating Birds guide, participants will also receive a CD-Rom containing the Copy Me pages and use of Flying WILD Educator Kits. Other resources provided to participants include access to resources provided by the network of bird experts, bird organizations, and environmental professionals assisting with the Flying WILD initiative.

Technology in a Bag

Cindy Ghent, Towson University

This workshop showcases the use of handheld devices and meters to enhance learning about ecological and environmental concepts. Using technology in an outdoor setting mimics the way environmental and conservation scientists do their work. Participants will learn to use several handheld devices and meters

used to gather data about a study site. Using digital compasses, the participants will find their study site (ie. geocaching) and use other meters in the field bag to answer questions found at their site. The meters include a kestrel weather meter, a densiometer, a clinometer, and others.

Camp Emergency Response and Preparedness

Keith Williams, North Bay Adventure

Lions and Tigers and Bears, oh my...or more realistically, thunderstorms, and noro virus, and injuries, OH NO!!! It is our job to keep other peoples kids safe in the outdoors, to minimize the likelihood of bad things happening as much as possible and to respond appropriately to minimize those effects. This workshop will discuss emergency planning and response for a host of emergencies a center can encounter. Participants will complete an outline of an emergency response plan they can flesh out once they return to their centers.

Friday Afternoon Workshops

(1:00pm - 4:00pm)

Creating a Rain Garden as a Schoolyard Habitat

Sarah Hilderbrand, Environmental Concern Inc.

As the amount of impervious surfaces such as roof tops, parking lots, and driveways increase so does the amount of runoff carrying pollutants into surrounding waterways. A rain garden, planted with deep rooted native plants, is designed to capture runoff, provide water infiltration, filter harmful pollutants, and create wildlife habitat. These landscape features can be low cost and low maintenance, and are a perfect way for schools to improve local water quality. There are several steps to planning and implementing a successful rain garden. Participants of this workshop will learn these steps and how to get student involved in the process. Interactive format will present ideas for lessons with students as well as technical information about how to measure, design and plan a rain garden installation.

Integrating Agroecology into Science for Green School Curriculum

Peggy Eppig, Keene State College & Maryland Ag Ed Foundation

Agroecology is an emerging field that combines environmental science, agriculture and natural resources. As an applied science it addresses food systems, climate change, social and environmental justice and ecosystem services and a good curricula fit for Green Schools! Agroecology is a hands-on science that blends several scientific and social sciences within a framework of agriculture and environmental science. This workshop will demonstrate how teachers can build standards aligned curriculum to incorporate real world research design into the sciences to enhance Green School opportunities. All disciplines are welcomed, formal and non-formal educators. Dress for mess!

The Fish Mobile – Bringing the Living Chesapeake into the Classroom

Kelly Cox, Phillips Wharf Environmental Center

The Fishmobile is a resource to introduce students to live Chesapeake Bay organisms, excite students about the natural world, and expand the impact of a wide range of curricula. Our mission is to inform, inspire, and involve. Converted from a bookmobile, the Fishmobile is a rolling aquarium that brings living specimens of Chesapeake Bay organisms to the classroom or other education venue. Students directly

observe and interact with live animals. The Fishmobile experience can enhance lessons in science, language arts, mathematics, social studies, and the arts, limited only by the educator's imagination. Workshop participants will tour the Fishmobile, which will be set up, stocked, and fully functioning. We will demonstrate how to integrate this unique resource with various lesson plans and activities, and provide an opportunity to brainstorm and discuss ideas that would fit your classroom or venue specifically.

Growing Up WILD Educator Training

Kimberly Check, Ward Museum of Waterfowl Art, Salisbury University

Growing Up WILD demonstrates through its materials and training programs how early childhood learning objectives can be reached through use of the outdoors and nature-themed activities combined with art, music, and play. It also builds the confidence of early childhood educators to lead outdoor explorations by providing ready-made activities, easily digestible background information, and high quality personal training programs. Through a wide range of activities and experiences, Growing Up WILD provides an early foundation for developing positive impressions about the natural world and lifelong social and academic skills.

During this 3 hour training, participants will be introduced to the Growing Up WILD curriculum through a sampling of its thematic activities that feature music and movement, outdoor components, art projects, healthy snacks and take home extensions. Participants will receive a copy of the Growing Up WILD curriculum guide that contains 27 activities. **Special note: The fee to attend this workshop is \$20 per person.**

Using Inquiry to Explore Nature

Kim Dixon, The Maryland Zoo in Baltimore

Teachers will learn to use comparative inquiry to engage students in nature studies. While learning to transform themselves from the center of the classroom universe to an active member of the learning team, teachers will utilize their powers of observation as they become natural scientists for the day! Participants will learn about guided and open inquiry and then do your own inquiry investigations outside. Participants also learn how to set up an inquiry center/inquiry bags and how to challenge students to seek answers on their own!

eBird: Integrating Technology and the World of Birds

George Radcliffe, Maryland Ornithological Society

Participants learn ways to use technology and the web to submit and access bird data for classroom use and will make field observations and use the eBird technology. Instructors will demonstrate how technology can be used in the collection and reporting of birding data. Whether using a schoolyard feeder or collecting observations from a birding trip, individuals can use GPS units and Google Earth to pinpoint locations of observations. Online the eBird site can be used to submit observations as well as recover data in a variety of formats for educational use. After classroom orientation to eBird, participants will apply the strategies at two Ocean City birding locations. Binoculars will be provided. Also highlighted will be a summer program where both educators and students can be trained to use these technologies at a higher level.

Worldwide Outdoor Treasure Hunt: An Introduction to Geocaching

Steven Mickletz, Irvine Nature Center

Learn about geocaching and use technology as a way to get families outdoors and increase the number of new visitors to your organization. Participants will be equipped with the knowledge to create a geocaching trail. Geocaching is a worldwide treasure hunt with over 5 million participants that has been around since May 2000, yet surprisingly few people know what it is or how it works. Learn the terms, tools, and technique of a growing craze that can help you introduce others to your love of the outdoors. Participants will learn how to find caches, activities that can be used for a geocaching program, and how to create a geocaching trail for others to find. Expect to be outdoors for about half of the program with a trip to Highland Park during the last hour to put your skills to the test!

Risk Management for Leaders: Building Your Organization & Programs

Mike Harding, Markel Service

Risk Management is an empowering tool you can use to lead your organization to fulfill its mission and improve capacity. You will learn about: the process of risk management and your role as your organization's risk management leader; techniques to help protect and develop your staff, goodwill, property and income; establish priorities with a "Risk Management Matrix"; and create a culture of risk management. This workshop includes a presentation and interactive session designed to give participants an action plan to apply specific goals for building their organization.

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