



Pre-Conference Field Trips Thursday, September 26, 2019

Pheasant Hunt

A time held tradition in the Michigan Autumn is an upland game bird hunt. Staff from the DNR's Carl T Johnson Hunt and Fish Center will take up 10 participants on a guided hunt which includes shotgun, ammunition, a guide and a dog. Participants will learn shotgun basics and have an opportunity to practice with sporting clays before the guided hunt. Easily a \$250 value, this is a special offer for the MAEOE conference for only \$25 person. Since the hunt is on a private preserve, no hunting license is required. Up to two birds can be harvested but additional birds can be added. We also intend for any harvested birds to be donated to the MAEOE MASH welcome event on Friday evening. This hunt runs from 9:00 am until 12:00 noon. Lunch on your own. Twenty-minute travel time each way included. This is a an extremely rare field to table opportunity for the novice or experienced hunter. **Fee:** \$25

Salmon Fishing

The fall salmon run is a sight to behold and should be on everyone's Nature Bucket List. At Tippy Dam State Park, you will experience the salmon run in all its glory. Staff from the DNR's Carl T Johnson Hunt and Fish Center will take up 10 participants on a guided fishing experience at one of the world's premier Salmon fisheries. **A fishing license is required** but all gear will be provided. This is another incredible guided value for only \$25/person (plus fishing license). We also intend for harvested salmon to be donated to the MAEOE MASH welcome event on Friday evening. This salmon fishing experience runs from from 9:00 am until 2:00 pm. Forty minutes travel time each way included. Lunch at *Tracks and Grill* (on your own \$). This is a an extremely rare fin to table opportunity for the novice or experienced angler. **Fee:** \$25

Pere Marquette National Scenic River Kayak Trip

Kayak through an exclusive portion of the Huron Manistee National Forest on an afternoon jaunt. Either leave from the Kettunen Center at 1:00 and caravan 45 minutes to Baldwin Canoe Rental or meet there at 1:45. You have the option of a single or a double kayak (let us know your partner!). The 2-hour trip will take you through stunning landscapes along the Pere Marquette River that is not open to other recreation companies. Following the trip, we will caravan back to the Kett, or head out to dinner on your own. Single kayaks are \$37, or tandems are \$52 (425lb total weight limit). Registration on the conference webpage is required but payment is due individually at the livery.

2019 Conference Workshops

All workshops are offered Friday from approximately 8:00-11:30 AM

Environmental Educator Certification (EEC) – Strand 1 – Knowledge, Skills, and Know-How of a Certified Environmental Educator

MAEOE's Environmental Educator Certification (EEC) program allows new educators and career professionals the opportunity to develop professional credentials and to pursue your goals. The certification program sets specific standards of knowledge, skills, and experience that all highly qualified environmental educators in Michigan should demonstrate. The completion of this in-person Strand 1 professional development will put you another step closer to earning your EEC. Payment of \$75 will include the day's experiences and online access to resources, networking, remaining Strand 1 activities, and guidance throughout the program. More details will be provided during the workshop. **Fee:** \$75

New and Improved Project WET 2.0

Michigan Project WET Coordinator, Janet Vail, will lead you through the recently revised Project WET educators' guide. Water Education for Teachers (WET) is nationally renowned and one of the most popular supplemental natural resources curriculums in America. The new guide is yours as part of the workshop. This professional development workshop also fulfills a Strand 2 requirement for the Michigan Environmental Education Certification (EEC). Whether you are a currently trained WET educator or participating for the first time, you will enjoy this chance to learn about our planet's most precious resource. **Fee:** \$35

Introduction to Master Recycling Educator Program

The Ecology Center of Ann Arbor has created a new program to educate community partners and K-12 educators about recycling and waste issues. If your last recycling update/education was even five years ago, you have a lot to learn in the everchanging landscape (and landfill) of waste management. Participants will walk through examples of the program, experience hands-on activities and learn the process to set up a training in your community. Ecology Center Education Director Katy Adams and Education Program Coordinator MacKenzie Munro will update your IQ on the three R's. **Fee:** \$10

High Priority Invasive Species – Identification and Control

The Kettunen Center collaborates with the North Country Cooperative Invasive Species Management Area (NCCISMA) to prevent and control the spread of high priority invasives in a habitat restoration project. Come spend the morning with Vicki Sawicki, NCCISMA Program Director and learn about the statewide CISMA network, in-class presentations and service-learning projects. In addition, you will spend plenty of time outside on the Kettunen Center grounds identifying high priority invasive species and how to eradicate them. **Fee:** \$10

2019 Conference Saturday Field Trips

All field trips are offered Saturday from approximately 1:00 – 4:30 pm

Carl T Johnson Hunt and Fish Center

Travel 20 minutes to Cadillac and explore the Carl T Johnson Hunt and Fish Center and inject some outdoor education into your conference experience. Get a tour of the center and try your hand at the shooting sports on both the archery and pellet gun ranges. The center is the hub of local school field trips in the fall and spring while catering to campers at Mitchell State Park in the summer months. The Carl T also established the DNR's popular Outdoor Skills Clinics for people longing to learn, and be proficient, in hunting, angling and other outdoor skills.

Travel Time: 20 minutes. **Method of Transportation:** carpool. **Field Trip Fee:** \$10

Return of the King: Manistee Weir Salmon Run

Thousands of Pacific King, or Chinook Salmon, returns up the Manistee River each fall to spawn and the Manistee weir enables the Michigan DNR to direct some of them to their egg take facility. This field trip offers a chance to see one of Michigan's most spectacular sights as Chinook begin their journey upriver. Participants will observe, and perhaps assist, biologists sort salmon and "spawn" them. As the salmon run continues in the coming weeks, thousands of eggs will be captured, fertilized and sent to hatcheries for later stocking in Michigan watersheds.

Travel Time: 70 minutes, **Method of Transportation:** DNR Vans, **Field Trip Fee:** \$10

Low Ropes and High Hopes

Stay close to home and learns the ups and downs of running a low ropes course, a great addition to any school program or nature center. Unlike their high risk relative, the high ropes course, low ropes courses are inexpensive and staff efficient but still encourage powerful learning.

Participants learn team building, trust building, problem solving and even STEM concepts. This session will also explain how to construct a low ropes course, best practices and the many benefits of placing one at your site. Long before there were "Escape Rooms," the low ropes course was building problem solving and teamwork solutions AND they were all outside!

Travel Time: NO travel time or transportation needed! **Fee:** \$10

Amish Homestead Tour

Don't miss this rare opportunity to learn sustainable lifestyle practices from the Amish community near the Kettunen Center. Beginning at the Yoder Store, only 15 minutes from the Center, this field trip will learn the sustainable ways of the Amish, their methods for low impact, sustainable agriculture and simple living. A culture that has adapted without the modern conveniences of technology, Amish populations and influence continue to grow across much of America. What you probably thought you knew about the culture best known for the continued use of the horse and buggy, is most likely skewed with misinformation. Come learn the true ways of the Amish in this unique conference experience.

Travel Time: 15 minutes, **Method of Transportation:** carpool, **Fee:** \$10

Conference Breakout Sessions

What's Fuzzy and Comes Out at Night? - Bill Hodges, Holt High School

Interactions with Ecosystems: Teaching NGSS/MI Science Standards with MI-STAR - Kari Keith, White Pine Middle School

STEM-ulating Activities on Human Ecology - Vanessa Wyss, Ferris State University

Nature Makerspace Boxes - Bonnie Hollander, Farmington Hills Nature Center

Does EE Work? From Environmental Education to Environmental Impact - James Dake, Grass River Natural Area

Flipping MEECS: Using Existing Curriculum as a Cornerstone to PBL - Gabrielle Likavek, Michigan Geographic Alliance

Five Minutes of Fame: Student-made Short Films for Science Communication - Kellie Wasikowski, Thunder Bay National Marine Sanctuary

Interpreting Weather - Dave Chapman, Okemos HS

Did You Know that ALL Michigan Graduation Requirements can be Met Outdoors? - Rashell Bowerman, Michigan Department of Education

Introduction to Tree Identification - Alex White, Michigan State University

Using Superheroes to Connect Literacy and Nature in our Community - Courtney Prout, For-Mar Nature Preserve

Stream School - Tom Kelly, Outdoor Discovery Center

Come to Your Senses: Experiential Learning Creates Long Lasting Memories - Dorothy McLeer, UM-Dearborn Environmental Interpretive Center

Bear Necessities -Tori Frailey, Ionia Conservation District

Invasion Meltdown - Meredith Zettlemyer, Kellogg Biological Station

STEM to STREAM: Catching and Keeping Girls' Interest in STEM through Fly Fishing - Eileen Boekestein, Grand Valley Metro Council – LGROW

Great Lakes Across the Curriculum - Mike Mansour, Hawk Woods Nature Center

National Geographic Inquiry Process - Fay Gore, National Geographic Society

What Lies Beneath? Exploring Michigan's Subsurface Using Geophysics - Luke Bowman, Michigan Technological University