Environmental & Field Science Workshop for K-12 Educators
Friday, May 2 and Saturday, May 3, 2003
Bay Cliff Health Camp

Workshop Highlights
FRIDAY
- Energy Education Methods & Materials
- Developing Residential Environmental Education Programs
- Teaching Science Through a Native American Perspective
- U.P. Geology Field Trip
- Schoolyard Gardening Lessons
- Teaching with Birds

SATURDAY
- Community Planning & the Visual Environment
- Global Climate Change Activities
- Wonderwise: A Women in Science Learning Series (sponsored by 4-H)
- Bog Exploration and Teaching Tips

Workshop Sponsors
- U.S. Fish and Wildlife Service at Seney National Wildlife Refuge
- National Park Service at Pictured Rocks National Lakeshore
- Western Upper Peninsula Center for Science, Mathematics and Environmental Education at Michigan Tech University
- Marquette-Alger ISD, Eastern U.P. ISD, Delta-Schoolcraft ISD, Dickinson-Iron ISD, Gogebic-Ontonagon ISD
- Northwoods Math & Science Center
- Seaborg Center at Northern Michigan University

Birding by the Bay
May 30, 31, & June 1
Munising, MI

FRIDAY
4-10pm Registration
- Alger County Chamber of Commerce

SATURDAY, 4am Breakfast at
- Munising High School on M-28 West

5am Field Trips
- Piping plovers, Kirtland’s warblers, Peregrine falcons, and MORE!

1-6pm Booths & Demos
- Munising High School on M-28 West
- Open to the public
- Pre-register for choice of kayaking, boat cruises, bike Grand Island, or hike Pictured Rocks National Lakeshore.
- Additional fees apply for most tours.
- Walk-ins can learn birding basics

5 pm - Scot Stewart
“Birding in the UP” slide show

6:30pm Banquet

7:30pm Keynote: “Dr. Avian Guano, BIRD.”
- Program at Munising High School
- (included in registration, and tickets available at the door)

SATURDAY, 4am Breakfast
- (Munising High School)

5am Field trips
- For more information visit the website at midwest.fws.gov/seney/imbd
- Registration fee includes breakfasts, field trips, banquet and keynote. $35/adults, $17.50 ages 12-17, children under 12 are free.

Pictured Rocks National Lakeshore
PO Box 40
Munising, MI 49862

5 pm - Scot Stewart
“Birding in the UP” slide show

6:30pm Banquet

7:30pm Keynote: “Dr. Avian Guano, BIRD.”
- Program at Munising High School
- (included in registration, and tickets available at the door)

SATURDAY, 4am Breakfast
- (Munising High School)

5am Field trips
- For more information visit the website at midwest.fws.gov/seney/imbd
- Registration fee includes breakfasts, field trips, banquet and keynote. $35/adults, $17.50 ages 12-17, children under 12 are free.

Pictured Rocks National Lakeshore
PO Box 40
Munising, MI 49862

5 pm - Scot Stewart
“Birding in the UP” slide show

6:30pm Banquet

7:30pm Keynote: “Dr. Avian Guano, BIRD.”
- Program at Munising High School
- (included in registration, and tickets available at the door)

SATURDAY, 4am Breakfast
- (Munising High School)

5am Field trips
- For more information visit the website at midwest.fws.gov/seney/imbd
- Registration fee includes breakfasts, field trips, banquet and keynote. $35/adults, $17.50 ages 12-17, children under 12 are free.

Pictured Rocks National Lakeshore
PO Box 40
Munising, MI 49862
Fly home with some resources that you can use immediately, as well as contacts for other resources. This fast-paced, hands-on session will present a variety of ways to teach the concepts of migration, threats to migratory birds, habitat, identification, and ways to learn about the "other world" that 'our' birds migrate to.

Grades K-12

6 - 7pm Dinner
7:15 - 8:15pm Lumberjack Era - Lynne Emerick
A visual step back in town that uses historic photographs and first hand accounts of the white pine lumbering boom times - from the mid 1800's to the early 1900's.

8:30 - 9:30 Learning Games in the Outdoors!
Dave & Marianne Kronk
Kids love games! Learn active outdoor games designed to teach science concepts. Materials to be explored include curricula by Joseph Cornell, Steve Van Matre, NatureScope, & Outdoor Biological Instructional Strategies.

SATURDAY:
6am - 7:30 Bird Hike or Magic Spot Activity
7:30 - 8am Breakfast
8-10am Choose one:
(1) Schoolyard Gardening: Teaching with Vegetables and Butterflies - Pam Schmidt
Develop an inquiry based science program for your school, by planting vegetables for food and native plants to attract butterflies! Learn ideas for gardening in the U.P. during the school year, and receive lesson plans and Michigan Content Standards Correlations. Grades K-8.

(2) Climate Change, Wildlife, and Wildlands - Marianne Kronk
Get your hands on some cool tools to use in teaching about global warming, including slideshows, interactive activities, fact sheets, and case studies. Grades 7-12. A free EPA curriculum which students for both days). Registration includes lunch and dinner on Friday, plus breakfast and lunch on Saturday. Some sessions require an additional fee for teacher kits and activity guides.

Registration Deadline for the workshop is April 21.

Teachers should ask their school or intermediate school district (ISD) about the availability of Eisenhower funds to cover registration, substitute fees, and travel:
Marquette-Alger ISD
Bob Koehs (bkkoehs@masd.k12.mi.us)
Eastern U.P. ISD
Michelle Ribant (mribant@eup.k12.mi.us)
Delta-Schoolcraft ISD
Debra Honeimer (ashoneimer@dlsisd.k12.mi.us)
Dickinson-Iron-ION ISD
Dee Benjamin (dibenjamin@dlsisd.org)
Copper Country ISD
Shawn Oppliger (soppliger@ccisd.k12.mi.us)
Gogebic-Ontonagon ISD
Joy Maki (jmaki@gopisd.k12.mi.us)

REGISTRATION
Workshop registration is $50 for both days ($25 for university students for both days). Registration includes lunch and dinner on Friday, plus breakfast and lunch on Saturday. Some sessions require an additional fee for teacher kits and activity guides.

WHAT TO BRING
sleeping bag pillow
towel
binoculars (optional) rain gear
warm jacket flashlight
bed sheet (optional) hat & mittens
sturdy walking shoes musical instruments

FOR MORE INFORMATION
To request registration materials or for more information contact: David Kronk at Pictured Rocks National Lakeshore (david.kronk@nps.gov or 906-387-2607) or Marianne Kronk at Seney National Wildlife Refuge (marianne.kronk@fws.gov 906-580-9851 x16).

FRIDAY Workshop Choices & Fees
10-1pm Choose one:
(1) Energy Education Methods and Materials
(2) Developing Residential Environmental Education Programs
(3) Teaching Science Through a Native American Perspective

2-5pm Choose one:
(1) U.P. Geology Field Trip
(2) Looks Count: Community Planning and the Visual Environment
(3) Teaching with Birds

SATURDAY Workshop Choices & Fees
8-10am Choose one:
(1) Schoolyard Gardening: Teaching with Vegetables and Butterflies
(2) Bog Exploration and Teaching Tips

10:30 - 12:30 Choose one:
(1) Wonderwise: Women in Science
(2) Looks Count: Community Planning and the Visual Environment
(3) Teaching with Birds

(1) Schoolyard Gardening:
(2) Developing Residential Environmental Education Programs
(3) Teaching Science Through a Native American Perspective

(1) U.P. Geology Field Trip
(2) Looks Count: Community Planning and the Visual Environment
(3) Teaching with Birds

REGISTRATION
Workshop registration is $50 for both days ($25 for university students for both days). Registration includes lunch and dinner on Friday, plus breakfast and lunch on Saturday. Some sessions require an additional fee for teacher kits and activity guides.

Registration Deadline for the workshop is April 21.

Teachers should ask their school or intermediate school district (ISD) about the availability of Eisenhower funds to cover registration, substitute fees, and travel:

Marquette-Alger ISD
Bob Koehs (bkkoehs@masd.k12.mi.us)
Eastern U.P. ISD
Michelle Ribant (mribant@eup.k12.mi.us)
Delta-Schoolcraft ISD
Debra Honeimer (ashoneimer@dlsisd.k12.mi.us)
Dickinson-Iron-ION ISD
Dee Benjamin (dibenjamin@dlsisd.org)
Copper Country ISD
Shawn Oppliger (soppliger@ccisd.k12.mi.us)
Gogebic-Ontonagon ISD
Joy Maki (jmaki@gopisd.k12.mi.us)

REGISTRATION
Workshop registration is $50 for both days ($25 for university students for both days). Registration includes lunch and dinner on Friday, plus breakfast and lunch on Saturday. Some sessions require an additional fee for teacher kits and activity guides.

Registration Deadline for the workshop is April 21.

Teachers should ask their school or intermediate school district (ISD) about the availability of Eisenhower funds to cover registration, substitute fees, and travel:

Marquette-Alger ISD
Bob Koehs (bkkoehs@masd.k12.mi.us)
Eastern U.P. ISD
Michelle Ribant (mribant@eup.k12.mi.us)
Delta-Schoolcraft ISD
Debra Honeimer (ashoneimer@dlsisd.k12.mi.us)
Dickinson-Iron-ION ISD
Dee Benjamin (dibenjamin@dlsisd.org)
Copper Country ISD
Shawn Oppliger (soppliger@ccisd.k12.mi.us)
Gogebic-Ontonagon ISD
Joy Maki (jmaki@gopisd.k12.mi.us)

REGISTRATION
Workshop registration is $50 for both days ($25 for university students for both days). Registration includes lunch and dinner on Friday, plus breakfast and lunch on Saturday. Some sessions require an additional fee for teacher kits and activity guides.

Registration Deadline for the workshop is April 21.

Teachers should ask their school or intermediate school district (ISD) about the availability of Eisenhower funds to cover registration, substitute fees, and travel:

Marquette-Alger ISD
Bob Koehs (bkkoehs@masd.k12.mi.us)
Eastern U.P. ISD
Michelle Ribant (mribant@eup.k12.mi.us)
Delta-Schoolcraft ISD
Debra Honeimer (ashoneimer@dlsisd.k12.mi.us)
Dickinson-Iron-ION ISD
Dee Benjamin (dibenjamin@dlsisd.org)
Copper Country ISD
Shawn Oppliger (soppliger@ccisd.k12.mi.us)
Gogebic-Ontonagon ISD
Joy Maki (jmaki@gopisd.k12.mi.us)

REGISTRATION
Workshop registration is $50 for both days ($25 for university students for both days). Registration includes lunch and dinner on Friday, plus breakfast and lunch on Saturday. Some sessions require an additional fee for teacher kits and activity guides.

Registration Deadline for the workshop is April 21.

Teachers should ask their school or intermediate school district (ISD) about the availability of Eisenhower funds to cover registration, substitute fees, and travel:

Marquette-Alger ISD
Bob Koehs (bkkoehs@masd.k12.mi.us)
Eastern U.P. ISD
Michelle Ribant (mribant@eup.k12.mi.us)
Delta-Schoolcraft ISD
Debra Honeimer (ashoneimer@dlsisd.k12.mi.us)
Dickinson-Iron-ION ISD
Dee Benjamin (dibenjamin@dlsisd.org)
Copper Country ISD
Shawn Oppliger (soppliger@ccisd.k12.mi.us)
Gogebic-Ontonagon ISD
Joy Maki (jmaki@gopisd.k12.mi.us)