

Fifth Biennial Lake Superior Youth Symposium

# Embracing an Inland Sea

Living in Community around Lake Superior

April 24 to 27, 2003

Sigurd Olson Environmental Institute, Northland College, Ashland, Wisconsin



For students & teachers (Grades 8-12) in Wisconsin, Minnesota, Michigan, and Ontario who live in or care about the watersheds and communities of Lake Superior and the Great Lakes.



register on-line at

[www.northland.edu/soei](http://www.northland.edu/soei)

## Greetings from the Symposium

The Lake Superior Youth Symposium welcomes you to the 5th Biennial Symposium titled [Embracing an Inland Sea: Living in Community Around Lake Superior](#). We are thrilled to have the Lake Superior Youth Symposium returning to Northland College where it began in 1995 as the brainchild of Clayton Russell, Professor of Outdoor Education and Environmental Education at Northland College. The symposium has been a true success! It sailed around the lake, stopping at four different ports, educating and inspiring over 1000 students in grades 8-12!

The Symposium is an outstanding event that is sure to inform, inspire, and motivate students and teachers to become stewards of Lake Superior and the Great Lakes. The goal of the symposium is to increase understanding of challenging environmental and scientific issues, enhance appreciation for the diverse natural, cultural, and historical resources of the Lake Superior region, promote personal involvement in creating solutions, and encourage participants to build upon their symposium experience in their schools and communities after the event.

Northland College, home of the Sigurd Olson Environmental Institute, is located one mile from Lake Superior on Chequamegon Bay in the city of Ashland, Wisconsin. This area is surrounded by nearly a million acres of the Chequamegon National Forest. Symposium participants will be able to experience Northland College's excellent facilities and faculty, as well as the wealth of natural resources surrounding us. This year's event promises many exciting artistic and cultural events throughout the weekend, to share this community's eclectic flare.

Symposium participants will be able to attend presentations and field experiences conducted by more than forty different presenters, including faculty and professionals from Northland College, University of Wisconsin-Extension, Midwest Renewable Energy Association, Honda Motorwerks, the Clear Water Folk School, US Coast Guard, natural resource professionals, artists, writers, historians, and educators. Some of the topics we will address are wetland ecology and extinction, renewable energy, sustainable food production, wildlife ecology, alternative transportation, forestry and water quality, Native American land ethic and culture, geology, native plants, fishery restoration, folk art, nature writing and photography, and more. Students and teachers can choose the Saturday morning field experience they wish to attend on their registration form.

On the following pages, you will find out more about the exciting weekend planned for you!

Please join us for the 5th Biennial Lake Superior Youth Symposium. It is sure to leave imprints in the lives of you and your students!





## Table of Contents

<b>General Information</b>	<b>1-3</b>
Steering Committee Partners	1
Symposium Funder	1
Symposium Contributors	1
Past Symposium Hosts	1
Information on the Web	1
Keynote Speakers	2
Registration Fees	3
Accommodations/Meals	3
Find a Local Sponsor	3
What to Bring	3
Frequently Asked Questions	4
<b>Symposium Schedule</b>	<b>4-5</b>
<b>Guest Presenters</b>	<b>6-7</b>
<b>Field Experience Descriptions</b>	<b>7-11</b>
<b>Guest Presenters</b>	<b>11-12</b>
<b>Group Registration Form</b>	<b>13</b>
<b>Individual Preferences &amp; Field Experiences Form</b>	<b>14</b>

## For More Information

Kelly Cornett, Coordinator  
 Lake Superior Youth Symposium  
 Sigurd Olson Environmental Institute  
 Northland College  
 1411 Ellis Avenue  
 Ashland, WI 54806

Tel : 715-682-1392  
 Fax : 715-682-1218

E-mail : [kcornett@northland.edu](mailto:kcornett@northland.edu)

*Northland College is an EOE/AA Employer.*

## Steering Committee Partners

Northland College and the Sigurd Olson Environmental Institute  
 Ashland High School and Middle School  
 Great Lakes Indian Fish & Wildlife Commission  
 Northern Great Lakes Visitor Center  
 Michigan Technical University  
 University of Wisconsin-Extension  
 Washburn High School  
 Wisconsin Department of Natural Resources  
 Wisconsin Department of Public Instruction  
 Wisconsin Lakes Partnership/UW-Extension

## Symposium Funder

Northland College and its Sigurd Olson Environmental Institute

## Symposium Contributors

Lake Superior Binational Forum  
 Bremer Bank, Washburn, Wisconsin  
 Black Cat Coffeehouse, Ashland, Wisconsin  
 Daily Bread, Ashland, Wisconsin  
 Chequamegon Food Coop, Ashland, Wisconsin

## Past Symposium Hosts

- 2001 Western U.P. Center for Science, Mathematics & Environmental Education  
Michigan Technological University  
Houghton, Michigan
- 1999 Great Lakes Aquarium  
Duluth, Minnesota
- 1997 White Pines Collegiate & Vocational School  
Sault Ste. Marie, Ontario
- 1995 Sigurd Olson Environmental Institute  
Northland College, Ashland, Wisconsin

## Information on the Web

*Check out some local web sites to plan your visit:*

Northland College and its Sigurd Olson Environmental Institute [www.northland.edu](http://www.northland.edu)

City of Ashland, WI [www.ashlandwi.com](http://www.ashlandwi.com)

Chequamegon Bay area [www.marlew.com](http://www.marlew.com)

Northern Great Lakes Visitor Center  
[www.northerngreatlakescenter.org](http://www.northerngreatlakescenter.org)



# Keynote Speakers

## Jeff Rennicke



In search of stories, outdoor writer Jeff Rennicke has crawled into bear dens, kayaked down rivers, skied across glaciers, climbed volcanoes, and

howled with wolves. His work, which has appeared in nine books and over 200 magazine articles, has taken him to China, Russia, Antarctica, Italy, the Amazon, Canada, Alaska, and all over the United States. His stories, which twice have been honored with Gold Medals for Excellence by the Society of American Travel Writers, appear regularly in such publications as Reader's Digest, National Geographic Adventure, Backpacker, and many others. When not sea kayaking, hang gliding, mountain climbing or running from bears, he lives with his wife and family in Bayfield, Wisconsin on the shores of Lake Superior. ([www.jeffrennicke.com](http://www.jeffrennicke.com))

### *Seven Shades of Blue: How one writer draws inspiration from the landscapes of Lake Superior.*

(Thursday evening, April 24 at 8:15 PM)

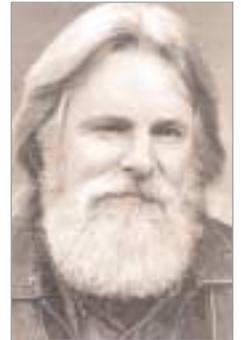
It is a mountain lying down, the largest lake on the planet. It is *the earth's blue eye*. Lake Superior is a powerful presence on the land and on the landscape of the human mind. From shipwrecks to sea kayaking, from winter ice to writing words, join National Geographic writer Jeff Rennicke for a poetic look at the greatest of the Great Lakes. Learn how it shapes the land and the lives of those who come to its shore. Lake Superior in words, photographs and music, a lake and an inspiration.

Christian W. Cold is a wildlife technician and educator for the Wisconsin Department of Natural Resources, Bureau of Wildlife Management. Based at Ladysmith, he serves as a mobile, non-formal educator who travels extensively throughout the Upper Chippewa River Drainage Basin offering programs on wildlife and related topics of natural history to schools and adult audiences.

### *Wildlife Ecology and Management in the Great Lakes Basin and the issues influencing its future.*

(Friday morning,  
April 25 at 8:30 AM)

The basics of ecology is a brief overview and personal perspective of the primary wildlife and plant communities of the Great Lakes Basin and some of the issues which will influence and ultimately define the ecological and social character of the region. It emphasizes the dynamics of forest and wetland communities, and relates the importance of these ecosystems and processes to the wildlife and people of the region. Also discussed are the often-controversial issues of clear-cut forestry, predator control, animal rights, and the future of hunting, trapping and fishing. The extinction component of the program is a potpourri of theory, case history, ecological concepts and philosophical position on biodiversity and the issues, which will influence its future integrity. It emphasizes co-evolutionary relationships, genetic vigor and landscape management issues. Chris usually brings along a critter or two for up close interpretation.



## Registration Fees

\$75 per person includes all symposium events, transportation to/from field trips and meals.

**Lodging is not included. See Lodging information in the previous column.**

One teacher/chaperone per 10 students is required. Chaperones must be in attendance and responsible for their students at all times. We are requesting a cap of 20 students per school/organization.

## Registration Deadline

postmarked by:

**March 31, 2003**

See pages 12-13 for Registration Forms

## Accommodations

Blocks of rooms have been reserved at the **Ashland Super 8 Motel** and each group will be responsible for their reservations and **payment by March 24.**

The rate per room, including tax, is \$43/night and sleeps up to 4 people (only \$10.75 per person/night!). Please call **(715) 682-9377** to make your own room reservations. Meals will be provided on campus from Thursday dinner thru Sunday breakfast. Your registration fee will cover all symposium events, transportation to/from field trips and meals.

**Please note: Chaperones/teachers will be responsible for transporting their students to and from the hotel at the start and end of each day.**

The Super 8 Motel has a swimming pool and whirlpool, so bring your swimming attire! There will be plenty of time to swim in the evenings after programs conclude for the day.

## Meals

The Northland College catering service, Chartwells, offers healthy and delicious food. They will accommodate all diet types including vegetarians (meat-free) and vegans (animal & dairy free). Be sure to mark your dietary requirement box on your individual preferences form so that we may accommodate you!

The Daily Bread, Ashland, Wisconsin will be catering lunch for Saturday's field experiences.

The Black Cat Coffeehouse, Ashland, Wisconsin will be catering breakfast on Sunday morning.

## Find a local SPONSOR

Students and teachers are encouraged to look for local sponsors to help with registration and travel costs. Many of the following organizations support environmental education, teacher training, and student involvement in the community. Contact the organizations in your local area to inquire about the possibility of having them sponsor students or teachers to attend the symposium.

- Community Foundations
- County Conservation Districts
- Trout Unlimited Chapters
- Sportsmen's Clubs
- Forest products industry
- School Boards
- Banks and businesses
- Churches

## What to bring checklist...

- \_\_\_\_\_ Water from home for *Gathering of the Waters* ceremony (think baby food size jar)
- \_\_\_\_\_ Casual, comfortable clothes and Shoes/boots for many weather conditions (See field experiences descriptions beginning on page 7 for more information.)
- \_\_\_\_\_ Personal snacks (if you want/need more food than 3 provided meals each day.)
- \_\_\_\_\_ Personal Water Bottle
- \_\_\_\_\_ Backpack
- \_\_\_\_\_ Swimming suit (the Super 8 has a pool!)
- \_\_\_\_\_ Individual Field Experiences supplies (See the field experience descriptions beginning on page 7.)

## Frequently Asked Questions

### *How do I register for my preferred field experience on Saturday morning?*

After reading the descriptions of the field experiences on the following pages, mark the five field experiences that you are most interested in attending on your Individual Preferences Field Experience Form. Rank these in order of preference in the spaces provided. Space for each experience is limited and we will schedule on a first-come, first-served basis. We will do our best to schedule you for one of the field experience you are most interested in. You will receive your assignments in early April, prior to the symposium so that you will know what to bring for your trip.

### *As a teacher, do I have to attend the Teachers Workshop as my field experience on Saturday?*

No, you do not have to, however I highly recommend it. Judith Peyton is an amazing educator and I promise you will walk away inspired and full of creative energy! This workshop is also open to high school students serious about becoming educators or camp counselors. Teachers, if any of the other field experiences just call your name, please rank those selections on your personal registration form.

### *Do participants, students, teachers/chaperones have to attend the entire symposium?*

Yes, we want all students and their chaperones to attend the entire symposium, Thursday evening thru Sunday morning. The symposium events are designed to build upon each other, providing a complete experience that you will remember for a long time.

### *Can students attend on their own?*

No. All students must come with a chaperone—a teacher, 4-H leader, scouting leader, parent, or other adult. **One chaperone for every ten students is required.**

### *Do all students have to stay overnight in the hotel?*

Yes, with the exception of local participants who are welcome to reside at their home in the evenings. We would like local participants to join us for meals throughout the day. Please notify us if that will be a problem.

### *What is expected of teachers/chaperones?*

Teacher/chaperones are expected to manage their group of students to ensure that they behave properly and attend programs on time. Chaperones are also responsible for transporting their students to and from Northland College at the start and end of each day.

### *Any additional questions?*

Call Kelly Cornett at 715-682-1392.

## Thursday

- 4-6 PM  
Ponzio Campus Center  
**Check-in** and small group tours of Northland College campus
- 4-7:30 PM  
Ponzio Campus Center  
**Display area open** (Eco-displays, organizations, college information, Sigurd Olson video, music)
- 6-7 PM  
Cafeteria  
**Pizza dinner**  
Late Check-in
- 7:30-7:55 PM  
Alvord Theatre  
**Welcome Address**  
Steve Sandstrom, Interim Director  
Sigurd Olson Environmental Institute to introduce Coordinators and the President
- Alvord Theatre  
**President's Welcome**  
Karen I. Halbersleben  
Northland College President
- 7:55-8:10 PM  
Alvord Theatre  
**Weekend Information**
- 8:15-9:15 PM  
Alvord Theatre  
Opening Night Keynote Address  
*Seven Shades of Blue: How one writer draws inspiration from the landscapes of Lake Superior*  
Jeff Rennie  
National Geographic writer

Good Night . . .

## Friday

- 5:30-7:30 AM  
Field  
**Birding** (optional, pre-register)  
(Vans will pick up participants at the hotel and local participants will meet here also.)
- 6:15-7:15 AM  
Nidaros Center  
**Yoga** (optional, pre-register)  
(Vans will pick up participants at the hotel and local participants will meet here also.)
- 7-8:15 AM  
Cafeteria  
**Breakfast**
- 8:30-9:40 AM  
Alvord Theatre  
**Keynote Address**  
**Chris Cold**  
Wildlife technician & educator  
Wisconsin DNR
- 9:40-9:50 AM  
Alvord Theatre  
Informative send off for day

9:50-10 AM Half of group stays on campus  
Load buses or move into the Alvord Theatre  
**OR**  
Second half of group loads onto buses for the Northern Great Lakes Visitor's Center

**Group that stays on Northland College campus**

10-10:50 AM **Renewable Energy Works!**  
Alvord Theatre Clay Sterling, MREA

11-11:50 AM **Community Gardens**  
Alvord Theatre Joy Schelble, UW-Extension

12-12:50 AM **HONDA Motorwerks**  
Alvord Theatre Chris Schneider, President

**Group that travels to Visitor Center**

10 AM-1 PM **Northern Great Lakes Visitors Center**

1-2 PM **Lunch at Northland College**  
Cafeteria

Groups switch locations for the afternoon

2-5 PM **Group that stays on Northland College campus for the afternoon**

2-2:50 PM **HONDA Motorwerks**  
Alvord Theatre Chris Schneider, President

3-3:50 PM **Renewable Energy Works!**  
Alvord Theatre Clay Sterling, MREA

4-4:50 PM **Community Gardens**  
Alvord Theatre Joy Schelble, UW-Extension

**Group that travels to Visitor Center**

2-5 PM **Northern Great Lakes Visitors Center**

5-6 PM **Break**

6-7:15 PM **Dinner**  
Cafeteria

7:30-8 PM **Heidi Howes**  
Alvord Theatre Vocalist, composer, poet

8-9:30 PM **Puppet Farm Arts GIANT Puppetry Show**  
Alvord Theatre  
**Gathering of the Waters Ceremony**  
(bring your water from home)

Good night . . .

## Saturday

5:30-7:30 AM **Birding** (optional, pre-register)  
Field Vans will pick up participants at the Super 8 Hotel and local participants will meet there also.)

6:15-7:15 AM **Yoga** (optional, pre-register)  
Nidaros Center Vans will pick up participants at the Super 8 Hotel and local participants will meet there also.)

7-8:15 AM **Breakfast**  
Cafeteria

8:30 AM-1 PM **Field Trips** with box lunches  
(12 options)

1:15 PM **Gather in the Alvord Theatre on Northland College campus**

1:30-2 PM **Bayfield High School's Aquatic Ecology Students** - student presentation  
Alvord Theatre

2:05-2:35 PM **The Conserve School Green Machine: An Evolving Model of Experiential Education**  
Alvord Theatre  
Student presentation

2:40-3:10 PM **Perma-Home**, Heather Tucker  
Alvord Theatre  
Student presentation

3:10-3:30 PM **Break**  
Alvord Theatre

3:30-4 PM **Ashland High School's Black Bear Monitoring** - student presentation.  
Alvord Theatre

4:05-5 PM **Declaration**  
Alvord Theatre

5-6 PM **Break**

6-7:15 PM **Dinner**  
Cafeteria

7:30-9:30 PM **Native American Cultural Evening**  
Alvord Theatre  
or weather permitting - outside

Good Night . . .

## Sunday

8:15 AM **Breakfast by Lake Superior Raffle**  
Directions will be provided  
Closing Circle

10:30 AM **Depart...see you in 2005!**

### Friday Workshops

The group will split in half for workshops. Half of the group will attend workshops at the Visitor's Center while the other half will be on the Northland College campus. The groups will switch places after lunch at the June & Craig Ponzio Campus Center.

#### *Northern Great Lakes Visitor Center Workshop*

Students will learn how historical and contemporary land-use practices affect the larger ecosystem of Lake Superior. Our focus will be on the Whittlesey Creek National Wildlife Refuge, concentrating on the history of humanity's interaction with the watershed. Included, will be a tour of the refuge, examining the reintroduction of coaster brook trout and restoration of the creek. Also explored will be the interaction of people with the Apostle Islands. We will examine life on the largest of the islands, Madeline Island, and the reasons for creating the Apostle Islands National Lakeshore. The day will be spent examining individual activism and land management practices, concentrating on how individuals fit into the larger spectrum of the Lake Superior and considering options for its future.  
([www.northerngreatlakescenter.org](http://www.northerngreatlakescenter.org))

#### *Northland College Workshops*

##### *Renewable Energy Works*

Clay Sterling is the Education Director for the Midwest Renewable Energy Association, located in Custer, Wisconsin.

This interactive session will provide an overview of renewable energy systems and how they work. You will learn about how solar, wind and water can be used to create clean, reliable power for homes and businesses. ([www.the-mrea.org](http://www.the-mrea.org))

##### *Community Gardens*

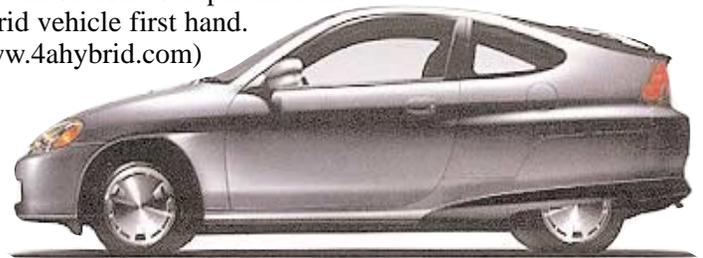
Joy Schelble, University of Wisconsin-Extension Nutrition Educator and Youth Community Garden Facilitator.

Food security is an issue in our communities. Many families and individuals do not have enough to eat. Limited incomes put pressure on people to allocate fewer resources for food and often-affordable food is of poor quality. Biotechnology is impacting our food integrity and the industry of food is limiting variety. How are we coping? Many people are coming together to address these issues by growing nutritious foods in community gardens. Joy will teach you how to start a community garden in your community!  
([www.luwex.edu/](http://www.luwex.edu/))

#### *HONDA Moterwerks, hybrid technology*

Chris Schneider's says that his degree in mechanical engineering from the University of Notre Dame allows him to fully appreciate the technological advances that the Honda products introduce to the market place. When the Honda Insight was introduced in December 1999, educating the Tri-State region to the benefits of hybrid technology became an important mission.

The automobile's impact on society has been enormous, bringing a new freedom of travel to individuals and opening wide area of the country to business and residential use. But, it has also created concerns over air quality, depletion of natural resources and climate changes. Reducing the impact of the automobile on society is one of Honda's guiding principles, and the Honda Insight is the first car of the 21st century to address these concerns. Participants will learn about the benefits of low-emission vehicles, focusing on the Honda Insight, and will be able to experience the hybrid vehicle first hand.  
([www.4ahybrid.com](http://www.4ahybrid.com))



### Friday Evening Programming

*Heidi Howes*, Vocalist, composer, poet (7:30 PM - 8 PM)

Heidi will open our evening's performance with her gorgeous voice and inspirational stories. She is a 1998 graduate of Northland College and makes her home here in Ashland, WI.

2002 was a very productive year for Heidi! She independently produced her debut CD, *Even Lovers Drown*, and her first book of poetry *The Morning After the Night She Fell into the Gorge*. Heidi completed a 300-mile bike tour called *One Less Tour Bus*, traveling throughout Wisconsin with guitar in tow. She also started her own production agency Freeze Productions, Inc. ([www.heidihowes.com](http://www.heidihowes.com))



#### *Puppet Farm Arts Giant Puppetry Performance*

(8-9:30 PM)

Christopher Lutter has been teaching puppet-making and performance for the past eight years. He is director of a small, puppetry-arts education organization called *Puppet Farm Arts*. Puppet Farm Arts has traveled as far as New York City to teach the *fine art* of transforming trash into



living things (for the Jane Goodall *Roots and Shoots* Conference). During the school year, Chris travels to schools, libraries and community centers

throughout the upper Midwest. In the summer months he conducts puppetry and creativity workshops at festivals throughout the Midwest and facilitates local arts events, such as *Live Art Workshop* on Madeline Island. Chris and many of his puppeteers, are Northland College graduates. ([www.puppetfarm.com](http://www.puppetfarm.com))

On Friday night the great puppetry hammer of *Puppet Farm Arts*, of Ashland, Wisconsin, will present *The Water*, through the use of magnificent GIANT puppets, masked performance, dance and percussion. You will be amazed by the size and strength of the characters that will be brought forth to bring you this Superior tale.

The performance will culminate in the ritual *Gathering of the Waters*, combining all participants' water.

## Saturday

**Native American Cultural Evening** (7:30-9:30 PM)  
Joe Rose, Director and Associate Professor of Native American Studies at Northland College will coordinate this evening's gathering. Joe is a Bad River Tribal Member and a member of the Grand Medicine Society.

Connie Burditt, Associate Director of Native American Studies at Northland College. Connie is Head Woman for the Buffalo Calf Pipe Support Circle of The Great Sioux Nation.

Tribal members from Bad River and Red Cliff will choreograph this beautiful evening with drumming, song and storytelling. We will learn about Native American Environmental Ethics, World View, and especially about their connection to Lake Superior. Connie Burditt will talk about the coming of the Buffalo Calf Woman. We will also hear from Joe Rose and some of the participants of A Walk To Remember - A Sacred Journey For Seven Generations. This was lived as a spiritual journey around Lake Superior to bring forth community visions to protect the air, land and water for the Seven Generations yet to come. This courageous group embarked on and completed a 1,200-mile journey around Lake Superior. ([www.migrationjourney.cjb.net/](http://www.migrationjourney.cjb.net/))

If weather permits, we will gather outside beneath the moon and stars.

## Early Morning Activities (optional)

**1 Bird Walk** (Friday & Saturday, 5:30 AM - 7:30 AM)  
Dick Verch is a retired Northland College professor of Biology and has birded this area for over 30 years. He is also the author of a book titled *Chequamegon Bay Birds*.

You will be picked up at your hotel promptly at 5:30 AM. While you are in the field you will focus most of your attention on waterfowl present on Chequamegon Bay. A spotting scope will be used to allow *best possible* viewing. You should see 10-12 species of waterfowl, several species of shorebirds, three gull species, as well as a number of other birds. **Bring along good binoculars and a field guide. Dress for cold/and/or wet weather!! A hat with earflaps, layers of sweaters and jackets, mittens or warm gloves, and warm footwear are necessary.** It is very cold standing outside in the early morning!

**2 Yoga** (Friday & Saturday, 6:15AM - 7:15AM)  
Diane Sautter is a certified yoga instructor and has been teaching yoga for over 25 years. She is also a Visiting Assistant Professor of English at Northland College. Yoga practice brings with it positive mood health, vitality, a healthy nervous system, great capacity for relaxation, and increased awareness. It is a practical approach to the health of the whole person and can be adapted to any individual. Diane will introduce students to some basic yoga postures, breathing exercises and meditation. **Please wear comfortable, loose fitting clothing and do not eat before class.**



## Saturday Morning Field Experience Options

Read the descriptions of the field experiences to be offered. Select five field experiences that you would be most interested in attending. Mark your selections on your Individual Preferences & Field Experiences Form (page 13). We will do our best to schedule you for at least one of your field experience selections.

Most of the field experiences will only allow 10-15 students per session, and will only be offered once during the symposium. All symposium participants will be scheduled for one field experience.

### 1 *Geology and Waterfalls*

Thomas Fitz, Assistant Professor of Geoscience at Northland College, received his B.S. from St. Louis University, his M.S. from the University of Minnesota, and his Ph.D. from the University of Delaware.

The 2,700-acre Copper Falls State Park, located in northern Wisconsin is part of the Penoquee-Gogebic Range. Billions of years later those mountains have decreased to 1,000-foot hills covered with dense forests, cool ravines, narrow gorges, and beautiful waterfalls. This field trip will take students to examine a variety of geologic materials that record a fascinating geologic story that spans more than a billion years. We will examine ancient lava flows and now-crystallized magma chambers that fed the lava flows, we will look at sediments that record glacial deposition, and sediments that tell us about the time when Lake Superior was 500 feet deeper than today. We will also study the landscape around us and see how the Bad River has sculpted the geologic materials into today's scenery. Be ready to have fun getting down and studying the rocks and soils under your feet. **Bring a backpack, water bottle, warm clothes, raincoat and comfy shoes. A magnifying glass or hand lens might also be nice if you'd like to get "well" acquainted with your surroundings.**



### 2 *Like a Fish in Water*

Andrew Goyke is an Associate Professor of Biology at Northland College. Goyke received his B.S. from the University of Wisconsin-Superior, his M.S. from the University of Minnesota-Duluth, and his PhD from the University of Maryland.

Visit the Bayfield State Fish Hatchery where lake trout, splake, brook trout, brown trout, shinook and coho salmon are raised for stocking Lake Superior and other inland lakes and streams. After the tour of the hatchery, travel down to the shore of Lake Superior for some hands-on learning experience with our inland sea. We will sample stream invertebrates, fish, and habitat to determine the health of a local stream. Students will use common sampling techniques and be introduced to analyses of habitat quality. Dress warm - if it's cold outside, it's cold in the hatchery. A raincoat and water-resistant hiking boots will also help to keep you warm and dry throughout the morning.

### 3 *Protecting our Native Landscapes*

Becky Brown received her B.S. in Education from the University of Georgia and her PhD from the University of Florida in Plant Ecology. She has conducted research and outreach programs in ecological restoration for more than 20 years.

Carrie Woerdeman is a senior at Northland College, working toward degrees in Environmental Studies and Natural Resources.

Not only are native plants beautiful, but also they are an integral part of our region's ecosystems. Come with us and spend the morning touring the native plantings around the Northland College campus, learning about the wonders of landscaping with native plants, and digging in the dirt as we transplant native seedlings. **Wear comfortable clothes and shoes that you won't mind getting dirty, and bring a raincoat if it's rainy outside.**

*Roots creep underground everywhere and make a firm foundation. Shoots seem very weak, but to reach the light, they can break open brick walls. Imagine that the brick walls are all the problems we have inflicted on our planet. Hundreds of thousands of roots & shoots, hundreds of thousands of young people around the world, can break through these walls. We CAN change the world.*

Dr. Jane Goodall

#### 4 Words and Nature "On the Edge"

Krista Pierson is an Environmental Educator, Organic Gardener, and a 1998 Northland College graduate.

Meagan VanBeest is a Writer/Naturalist, Master Gardener, and a 1997 Northland College graduate.

Take a one-mile hike with us to the top of a 1600 ft. red granite dome, the highest point in the Chequamegon National Forest, and stand on the edge to overlook the landscape of a glacial Lake Superior. On the way discover the natural connection to the Lake's past and present and reflect on the experience in a journal created from recycled and natural materials. **Bring a water bottle, backpack, and clothes for a cool spring day and don't forget your favorite pen!** Come play with nature, play with words.

#### 5 Sustainable Foods - An Organic Lifestyle

Matthew Toavs has a B.S. in Outdoor Education and Natural History from Northland College (1998), and a M.S. in Sustainable Agriculture from the University of London's Imperial College at Wye (2000).

Matthew's hand on food systems experience includes volunteer work at Chequamegon Food Coop in Ashland, two seasons working with Lee and Judy Stadnyk on Willow Run Farm (organic dairy and vegetables), and 2 years with Whole Foods Market in Minneapolis where he currently works as the produce team leader.

Bob Cornett received his B.A. in Peace and Conflict Resolution from Northland College (1999). He is a community support specialist, a puppeteer, and an organic gardener, with a passion for giant pumpkins. Bob is currently building a passive solar home.

Take an exciting adventure with Matt and Bob to visit a few components of Ashland's food system, including a local organic farm. Participants will explore local food systems from the perspective of producers, distributors, consumers, waste management and recycling programs. There will be inspiring hands-on activities in addition to a basketful of information you can use to make more sustainable food choices. We will also discuss the challenges and opportunities presented by the transition to more sustainable food systems.

#### 6 Ideas to Action: Rockin' the Boat around Lake Superior

Dana Churness is the Director of the Wisconsin Network for Peace and Justice. Dana received her B.S. in Environmental Education from the University of Wisconsin, Stevens Point (2001). She recently returned from Cordova, Alaska where she had been working as an environmental educator/experience leader. She is also an

advocate against mining proposals in Wisconsin and is an organizer for the Wolf Watershed Educational program. ([www.mindspring.com](http://www.mindspring.com) - Wisconsin Network for Peace & Justice)

Joy Meeker is a Visiting Assistant Professor of Peace, Conflict, and Global Studies and Environmental Studies at Northland College. Joy has worked with youth, educators and community members to assist them in responding creatively to conflict for the last ten years. Her recent work promotes nonviolent responses to conflict.

There are many social, political, and environmental issues that move us to want to do more. This workshop will bring out the activist in you and motivate you to be leaders in your school/community. Teambuilding, strategizing, role-playing and hands-on practice working with different components of organizing an effective campaign will all be included in this interactive workshop. What positive changes are you excited about? What are the first steps in turning your ideas into action? Walk away from this weekend with a plan to rock the boat, and plan on being successful!

#### 7 United State Coast Guard and Lake Superior

Participants will begin by learning about the History of the U.S. Coast Guard and Lake Superior. A representative from coast Guard Marine Safety office Duluth will talk about *Environmental Protection: Spill Response, Strategies, Facility Protection and Recent Events*. They will also demonstrate how absorbents work to remove oil from the water surface and beaches. Participants will also learn about the basics of boating/marine safety: safety equipment, survival tips, line handling/search and rescue, knot tying and homeland security missions. Weather permitting, we will spend time on the water, so please **dress for the possibility of windy, wet, and cool conditions**. (Coast Guard: [www.uscg.mil/USCG.shtm](http://www.uscg.mil/USCG.shtm))

#### 8 Fisher Tracking

Zach Wilson graduated from Northland College with a B.S. in Outdoor Education-Natural History (2000). Zach is the Naturalist for North Lakeland Discovery Center in Manitowish Waters, Wisconsin. He coordinates numerous interpretive programs including, animal tracking and dog sledding field experiences, as well as the Woods & Water project for Mercer and Hurley High School students. ([www.discoverycenter.net/index.html](http://www.discoverycenter.net/index.html))

MaryJo Gingras graduated from Northland College, earning a B.S. in Environmental Studies-Natural Sciences with an emphasis in Water Resources (2000). MaryJo is the conservation education coordinator for Ashland, Bayfield, Douglas, and Iron Counties for the Land and Water Conservation Department. She covers

a broad range of activities and programs including the *Woods & Water Project*, the conservation newsletter, and the annual tree and shrub sale.

We are inviting you to take part in an exciting field research opportunity. Students from Hurley and Mercer High Schools in Northeastern Wisconsin are getting a hands-on look at the environment this winter through a unique research project called the *Woods and Waters and Project*. The project is in its fourth year, and the students are currently studying the linkage between Iron County forest types, soils and wildlife. Early this fall, 2 female fishers were trapped and radio collared by the students. Since then, they have been using radio telemetry equipment to track and record the animal's movements. This data will be used along with track surveys, soil surveys, weather data and forestry measurements to learn about each fisher's habitat and home range. You have the opportunity to join Zach, MaryJo, and several Hurley students in the field. Not only will you help the Hurley students collect additional data, but you will get a first hand look at habitats in Northern Wisconsin when you use the telemetry equipment to track the fisher through the Northwoods!

#### *9 A World of Words with Jeff Rennie*

Explore the landscape of creative writing with National Geographic author Jeff Rennie. In this workshop young writers will get the chance to explore methods to enhance their creativity, the wonders of journal-keeping, and get a chance to share their own writing. The morning will be divided into three modules: creativity, the craft of writing, and how to publish your work. If the weather is good we will explore the landscape around Northland College and do our writing, reading and discussions outdoors. If the weather is poor we will come inside to explore the landscape of our memories and creativity with a series of fun writing exercises designed to bring out the writer and poet in all of us. Come explore the world of words with Jeff Rennie. ([www.jeffrennie.com](http://www.jeffrennie.com))

***Please bring your favorite writing instruments as well as paper/journal/notebook.***

#### *10 Clear Water Folk School*

The team will begin by sharing a brief history/philosophy of folk schools. The group will then break out into 4 different workshops. Participants may choose to participate in one or all of them throughout the morning. ([www.clearwaterfolkschool.org](http://www.clearwaterfolkschool.org))

**Fire Craft with Stephen Geiger** - Study a hands-on and holistic approach to primitive fire making with this Certified Earth Skills instructor for Hawk Circle and The Earth Mentoring Institute. It will come full circle through initial reading of the landscape with an eye for fire,

followed by gathering, building, maintaining, and safely extinguishing campfires. Friction fire with flint and steel techniques will be explored. Students will make their own flint and steel kits.

**Living Mural with Savita Jones** - Students will paint a large-scale canvas reflecting on community life around Lake Superior. Our individual expression will become one memorable piece. A digital photograph of the mural will be given to each student.

**Metalwork Magic with Michael Jones** - Students will explore the basics of metalwork with a professional blacksmith while making a bracelet out of commonly used metals. Bend, twist, cut, curl, and hammer to create other sculpture, art and jewelry. Spark your interest in metalworking during this fun and experiential class.

**Song writing, poetry, and storytelling with Heidi Howes** - Students will work with this accomplished singer/song writer to manifest their connections to the Lake and environment through words and song. Heidi will share her insights on how to publish or record your work. She is an inspiration to work with!

#### *11 Nature Photography*

Darcy Schwerin, owner of Serendipity Photography and Design, is a graduate of UW Stout - B.A., Fine Arts with a concentration in graphic design and photography. Darcy has traveled extensively with backpacking and kayaking experiences to New Zealand, British Isles, the Apostle Islands and many other locations in North America.

You will learn how to capture on film the extraordinary in our natural world at Copper Falls State Park. This workshop will focus on developing your artistic eye, and will encourage you to view the natural world *in pictures*. We will emphasize perspective, composition, color, and the sharpening of our senses. Our goal here is to get out and feel confident about shooting what we love - nature in our own unique eyes! ***Please bring a 35mm camera, and at least 3 rolls (24 exp.) of 35 mm, 200 or 400-speed color print film.*** One roll will be developed locally for a critique. Be prepared for all types of weather.

#### *12 Teacher Workshop*

##### ***Off the Road, Off the Grid: A Little Bit of Heaven***

*Note: This workshop is open and specially designed for teachers but will allow a few high school students who aspire to be educators or camp counselors to participate as well.*

Judith Peyton has taught in elementary schools, high schools, camps, and college. She has an Ed.D. in postsecondary education. Her passion is immersing children and adults in nature, using an emergent education approach called *The Project Approach*.

Join environmental educator Judith Peyton in this teacher workshop to explore nature and ideas for stimulating students' *intelligence in the wild*. Spend this time outdoors as you may have done as a child by a stream, in the woods, or in a field following your fancy and occupying yourself for hours on end, your eyes and ears finely attuned to your immediate surroundings, your imagination going full stream, and your thinking and learning tumbling like a waterfall. On Judith's 180 acres surrounding her photovoltaic home, *The Seeing is Believing Trail* winds into the woods and ravines with surprises popping up like mushrooms, such as tiny birch bark fairy villages tucked into old white pine stumps, learning sites like Bells on Branches, and the Wake Up the Woods outdoor amphitheater. Pick up ideas to create an outdoor learning place at your school. Bring a backpack with everything you think you'll need to be comfortable hiking and learning in the woods, especially snacks, water and raingear.

## Saturday Afternoon Guest Presenters

### **Bayfield Aquatic Ecology Course presentation**

Bayfield High School Students of Aquatic Ecology

For two years now, Bayfield High School has been offering an exciting opportunity for high school students. They offer a course called *Aquatic Ecology - Field Study*, instructed by Mr. Anderson, a middle school and high school science teacher. First, the students go through SCUBA training and receive a lifetime certification first. Three days a week for the first semester, the students are in the cold waters of Lake Superior, collecting soil core samples and water samples. They sample and plot every site by using GPS and compass headings. They also look at surface temperature, temperature at depth of site, and turbidity (water clarity). The students test and comile graphical data on the 70-90 samples collected each year. We hope that we can share this data with the proper agencies that would like to have baseline data of this area of the Lake Superior's shoreline.

### **The Conserve School Green Machine: An Evolving Model of Experiential Education**

Conserve School student presentation

The Conserve School, a private high school in Land O' Lakes, WI, is dedicated to educating its students about environmental sustainability, technological innovation, and ethical leadership. Conserve School staff and students feel that the best way to teach and to learn is through authentic experiences in which students find

real-world solutions to real-world problems using the skills they learn in their classes. This presentation will give you an introduction to a unique form of water treatment system found at Conserve School, as well as the ways that this system is used by teachers and students as a *living laboratory*. (<http://www.conserveschool.org/>)

### **Perma-Home, built to endure hundreds of years**

Heather Tucker is a Northland College student working on her degree in Peace Studies.

Heather will share her story of building an off-the-grid home from timbers and straw. She will talk about the sustainable choices her family has made in order to create a home that is both healthy for their family and the environment. It has taken a community of support to build this family's home, one that will stand as a model of sustainability for many lifetimes to come.

### **Black Bear Monitoring Presentation**

Black Bear Project, Ashland High School Students

Ashland High School has been involved in conducting a black bear research and educational program since 1995. The primary research area includes the sub-agricultural area near the city of Ashland and the city limits/urban areas of Ashland.

The main objectives of this project:

- Teach/demonstrate good scientific research methods and practice.

- Training, use and maintenance of radio telemetry equipment.

- Learn in-depth information about Black Bear ecology, habitat and other environmental studies.

- Training in proper handling and care of research animals.

- Analysis and presentation of data.

- Explore opportunities for learning and growth.

A key aspect of the Black Bear Project is to keep the community, landowners, professionals and other interested parties informed and involved as possible.



# Group Registration Form for the 5th Biennial Lake Superior Youth Symposium 2003

Registration instructions...please read before filling out the form.

Please register your entire group together using the Group Registration Form. First photocopy the Individual Preferences & Field Experiences Form for EACH person attending the symposium to complete.

Mail your payments, Group Registration Form, and the Individual Preferences & Field Experiences Forms to the address below in one envelope. Each student should select their top 5 field experiences that he/she would most like to attend, and mark their choices on the Preferences Form. We will do our best to schedule students for one of their five field experience selections. *Teachers: Please check everyone's forms to be sure that they are complete and legible.*

Register Early      Attendance *Limited* to 150      Field Experience spaces are limited and are scheduled first-come, first-served!

Registration deadline: March 31, 2003

Contact Person's Name \_\_\_\_\_

School or Organization \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip \_\_\_\_\_ Country \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

### List of Teachers/Chaperones Attending

*One teacher/chaperone for every 10 students and a cap of 20 students per school/organization is requested.*

Name	Subjects taught	Grades taught
1		
2		
3		
4		

### List of Student Participants

*Each participant must fill out the Individual Preference Form.*

Name	Grade
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

### Payment Method

School Purchase Order Number \_\_\_\_\_

*Make checks (US funds; personal or school) payable to:  
Sigurd Olson Environmental Institute*

Registration deadline March 31, 2003

Number of participants \_\_\_\_\_ x \$75 \$ \_\_\_\_\_

Total Registration Fees \$ \_\_\_\_\_

Mail registration forms in one envelope with payment to:

Sigurd Olson Environmental Institute

Northland College

1411 Ellis Avenue

Ashland, WI 54806 USA

Pay with your credit card (circle your choice)

Mastercard      Visa

Exp. Date \_\_\_\_\_ / \_\_\_\_\_

Account Number \_\_\_\_\_

Fax (715) 682-1218      Phone (715) 682-1223

# Individual Preferences & Field Experiences Form for the 5th Biennial Lake Superior Youth Symposium 2003

Registration instructions...please read before filling out the form.

Prior to completing, photocopy this form for EACH person attending the symposium. Each participant needs to complete their own form and must select their top 5 field experiences preferences. The Symposium will make every effort to schedule students for one of their five field experiences preferences.

Name \_\_\_\_\_ School \_\_\_\_\_ City/State or Province \_\_\_\_\_

Circle whether you are a: Student Teacher Chaperone (describe): \_\_\_\_\_

Circle T-shirt Size (adult sizes) S M L XL XXL T-shirt material is eco-friendly.

**Field Trip Options** (Choose your top 5 preferences by numbering 1-5. The page numbers give the full field trip description.)

- \_\_\_\_\_ 1 **Geology and Waterfalls** Geology exploration/interpretation at Copper Falls (page 8).
- \_\_\_\_\_ 2 **Like a Fish in Water** Bayfield fish hatchery trip and aquatics sampling/analysis at Lake Superior (page 8).
- \_\_\_\_\_ 3 **Protecting our Native Landscapes** Exploring native planting fieldwork at Northland College (page 8).
- \_\_\_\_\_ 4 **Words and Nature "On the Edge"** A naturalist hike and journal making at St. Peter's Dome and Morgan Falls (page 9).
- \_\_\_\_\_ 5 **Sustainable Foods - An Organic Lifestyle** Experience sustainable agriculture, organic gardens, and food cooperatives (page 9).
- \_\_\_\_\_ 6 **Ideas to Action: Rockin' the Boat around Lake Superior** Leadership, activism, and grass roots organizing (page 9).
- \_\_\_\_\_ 7 **United State Coast Guard and Lake Superior** Explore marine safety, pollution issues, search and rescue, knots, navigation, and homeland security (page 9).
- \_\_\_\_\_ 8 **Fisher Tracking** Travel to Hurley, Wisconsin to study wildlife biology, ecology, forestry, radio telemetry equipment, and data collection in the field (page 9).
- \_\_\_\_\_ 9 **A World of Words with Jeff Rennie** A National Geographic writer's workshop, various writing exercises and learn how to get published (page 10).
- \_\_\_\_\_ 10 **Clear Water Folk School** Travel to the school to experience four different workshops: primitive fire, metalwork, song writing, and mural painting (page 10).
- \_\_\_\_\_ 11 **Nature Photography** Learn the art of nature photography at Copper Falls State Park (page 10).
- \_\_\_\_\_ 12 **Teacher Workshop Off the Road, Off the Grid: A Little Bit of Heaven** *This workshop is open and specially designed for teachers but will allow a few high school students who aspire to be educators or camp counselors to participate as well.* Learn about immersing children and adults in nature, using an emergent education approach called *The Project Approach*. (page 10).

## Early Morning Activity (optional)

Please circle EACH activity you wish to attend. You may attend the same activity both Friday and Saturday. We will pick you up at your hotel for these activities (locals will meet there too). Page numbers following activities give full activity descriptions.

1 **Bird Walk** This is an amazing opportunity! You should see 10-12 species of waterfowl, several species of shorebirds, three gull species, as well as a number of other birds. Space is limited! (Page 7) Friday 5:30-7:30 AM Saturday 5:30-7:30 AM

2 **Yoga** Start the day off with some excellent mind-body exercise that's sure to keep you energized through our busy schedule! Space is limited! (Page 7) Friday 6:15-7:15 AM Saturday 6:15-7:15 AM

## Personal Preferences

Dietary requirements, please circle your choice (choose only one):

Vegan (no meat, no dairy) Vegetarian (no meat or fish) No restrictions Other \_\_\_\_\_

Fifth Biennial Lake Superior Youth Symposium  
April 24 to 27, 2003

Sigurd Olson Environmental Institute, Northland College, Ashland, Wisconsin

register on-line at

[www.northland.edu/soei](http://www.northland.edu/soei)

Puppet Farm Arts GIANT Puppetry

