An Awesome Opportunity for K-12 teachers

(Sponsored by COSEE Great Lakes and the "Making a Great Lake Superior" Conference Executive Committee)

– Making a Great Lake Superior –

An International Conference Linking Research, Education, and Management

October 29–31, 2007, Duluth Minnesota, USA
Duluth Entertainment and Convention Center
http://www.seagrant.umn.edu/superior2007/

Educators: Apply for a scholarship to participate in this international conference combining the best scientific, management, and education expertise available on Lake Superior!

The conference will include Lake Superior research, education, and management relating to:

- Invasive species
- Habitat and species management
- Human health and safety
- Areas of Concern
- Non-point source pollution
- Toxic pollutants
- GIS and information management
- Economic and environmental sustainability
- Climate change
- Water levels and lake withdrawals
- Watershed stewardship
- Fisheries and aquatic ecology

Teacher scholarships include free registration for the conference, substitute reimbursement directly to the school district, limited travel support on a first-come, first-serve basis, and the Greatest of the Great Lakes Lesson CD. Funding for teacher participation is limited, so please fill out and send in the registration/application form as soon as possible. We will request confirmation from your district once we have alerted you that you will receive a scholarship. CEUs are available.

If you are unable to attend the whole conference we recommend that you attend on Tuesday. Teachers receiving scholarships are expected to attend two events. A special Tuesday luncheon has been arranged to link scientists and managers with educators. This will be a great opportunity to have an interactive discussion with them and talk about applications of their work to classroom situations. On Tuesday afternoon there will be a facilitated workgroup to brainstorm additional classroom applications from what you have learned and to review the Greatest of the Great Lakes Medley of Model Lessons produced by COSEE Great Lakes.

If you wish to seek a scholarship or have additional questions, get in touch at chagley@umn.edu. The registration/application included with this announcement should be emailed or faxed to Cindy Hagley (FAX number 218-726-6556). We can't cover field trip or extra banquet ticket expenses through the scholarship; if you want to participate in those, please indicate on the form, and we'll coordinate payment. Take a look at the agenda included below and send in those applications!

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Conference Agenda

Sunday, October 28, 2007		
12:00	Pre-Registration	
1:00	Volunteer Opportunities	
1:30	St. Louis River AOC Tour	
6:00	Climate Change Event	
Monday, October 29, 2007		
7:30	Registration	
8:30	Opening and Plenary	The State of Lake Superior
10:10	Break	Art Room Open
10:40	State of Lake Superior Panel Discussion	
12:10	Lunch	Art Room Open
1:10	Concurrent Session 1 (6 tracks)	GIS, Sustainability, Nonpoint Source Pollution, Toxics, Fisheries, and Water Levels
2:50	Break	Art Room Open
3:20	Concurrent Session 1 Continued	
4:40	Topic Discussions	
5:10	Poster Session and Reception	Art Room Open
6:30	Presentation	Craig Blacklock
Tuesday, October 30, 2007		
7:00	Registration	
8:00	Plenary Session	Climate Change in Lake Superior
10:00	Break	Art Room Open
10:30	Concurrent Session 2 (6 tracks)	Invasive Species, Watersheds, Areas of Concern, Health, Habitat, Climate
12:10	Teacher Luncheon	Share with Scientists and Managers
1:10	Concurrent Session 2 Continued	
2:30	Topic Discussions	
3:00	Break	Art Room Open
3:30	Education Work Group – Applications to the Classroom	Facilitated Discussion
5:00	Break	Art Room Open
6:00	Banquet and Awards Ceremony	Speakers: John and Ann Mahan
Wednesday, October 31, 2007		
7:30	Registration	
8:30	Plenary Session	What have We Learned and Next Steps: Research, Education/Outreach, Management
9:10	Local Government Panel	
10:40	Break	
11:00	Closing Speaker	
12:30	Field Trips	

Additional Activities for Conference Participants

Free Conference-Related Activities Open to the Public:
A variety of events will take place in association with the conference that are free and open for anyone to participate in.

- **Kite Making at the Great Lakes Aquarium**
- 1-3 p.m. on Sunday, Oct 28, at the Great Lakes Aquarium.
- **Climate Change Forum with Will Steger**
- Sunday evening from 6:30-8:30 p.m. at the Downtown Holiday Inn Ballroom, Polar Explorer Will Steger and Fresh Energy will host a forum on climate change impacts and solutions. He will be joined by Bishop Peter Strommen, Dr. Lucinda Johnson, and J. Drake Hamilton. Music will be provided by Biochemical Characters.
- **Lake Superior from an Artist's Perspective: Craig Blacklock**
- Monday, Oct 29 from 6:30-8 p.m. at the DECC.
- **Making a Great Lake Superior Theater and Art Gallery**
- The gallery will be open to the public from 8 a.m. to 6 p.m. on Monday, Oct 29, Tuesday, Oct 30, and from 8 a.m. to noon on Wednesday, Oct 31.

Field Trip & Volunteer Opportunities

Volunteer Opportunities
All volunteer opportunities are FREE, and will be from 1 p.m. to 5 p.m. on Sunday, October 28.

- Hiking Trail Clearing and Repair in One of Duluth's Stunning Parks
- Lend a Helping Hand in Hartley

Field Trips
All field trips, except the St. Louis River boat tour, will take place after the conference on Wednesday, October 31.

- St. Louis River Area of Concern (AOC) Boat Tour and Brunch: Sunday, Oct 28, 1:30 p.m. - 4 p.m. $28
- Behind the Scenes at the Great Lakes Aquarium $8
- South Shore Fisheries Medley $23
- Innovative Stormwater Management Tour $17
- Tour the Environmental Protection Agency Lab in Duluth $14
- St. Louis River Freshwater Estuary Edventure $18
- Hike the Superior Hiking Trail $8
- Western Lake Superior Sanitary District's Composting Program $8

CONFERENCE ORGANIZERS INCLUDE THE U.S. ENVIRONMENTAL PROTECTION AGENCY, ENVIRONMENT CANADA, AND THE UNIVERSITY OF MINNESOTA SEA GRANT PROGRAM. TWENTY-SIX ORGANIZATIONS ARE SPONSORING THE EVENT, INCLUDING U.S. AND CANADIAN GOVERNMENT DEPARTMENTS, ACADEMIC INSTITUTIONS, SEA GRANT PROGRAMS, INTERNATIONAL ORGANIZATIONS, TRIBAL ORGANIZATIONS, AND WATERSHED GROUPS.

MAKING A GREAT LAKE SUPERIOR (MAGLS) TEACHER REGISTRATION

Please fill out all required fields, indicated with a (*).

REGISTRATION DETAILS*

☐ Full conference (Monday - Wednesday)

Single Day

☐ Mon

☐ Tues (Tuesday is recommended for educators)

☐ Wed

BANQUET*

☐ I will be attending the Banquet Tuesday evening

☐ EXTRA banquet tickets (one included with registration).

_____Please indicate # of extra tickets at $35 each

Indicate number of each meal

_____# of Fish

_____# of Vegetarian

PARTICIPANT INFORMATION*

Conference Participants List*

Privacy: Unless permission is given, all contact information will be used only for conference-related communications.

***May we use the contact information below in the conference participant list?**

☐ **Yes** ☐ **No**

First Name* _____

Last Name* _____

Phone* _____

Email* _____

Address* _____

_____

City* _____

State* _____

Zip/Post Code* _____

Province or Territory _____

Country _____

School* _____

_____

Grades Taught* _____

_____

Subjects Taught* _____

_____

APPLICATION*

Please explain why you are interested in this conference and how you hope to use the information in your classes (just a few sentences necessary)

CoSEE GREAT LAKES

CENTERS FOR OCEAN SCIENCES EDUCATION EXCELLENCE

FIELD TRIPS AND VOLUNTEER OPPORTUNITIES

(All opportunities have a participation limit and will be on a first-come, first-served basis. See conference Web site for details.)

Volunteer Opportunities on Sunday Afternoon

(Free, but bring work gloves)

- ☐ Hiking Trail Repair and Clearing in Duluth
- ☐ Helping Hand at Hartley Nature Center

Field Trips

Sunday afternoon

- ☐ St. Louis River Boat Tour and Brunch ($28)

Wednesday afternoon

- ☐ Innovative Storm Water Management in Twin Ports ($17)

Wednesday afternoon field trips, continued

- ☐ St. Louis River Freshwater Estuary Adventure ($18)
- ☐ Behind the Scenes at the Great Lakes Aquarium ($8)
- ☐ Hike the Superior Hiking Trail ($8)
- ☐ Environmental Protection Agency's Research Lab ($14)
- ☐ South Shore Fisheries Tour ($23)
- ☐ WLSSD Composting Programs (includes lunch) ($8)

CARPOOLING AND/OR CHARTERED BUS INTEREST AND INFORMATION

Making a Great Lake Superior 2007 is committed to reducing the environmental impact of this conference. As part of that effort, we will be helping organize carpools to the conference, or possibly chartered bus service pending interest. Checking one of these does NOT obligate you to carpool or take a bus, if offered.

- ☐ **Yes, I am interested in carpooling**
- ☐ **Yes, I am interested in carpooling and I can drive**
- ☐ **Yes, I am interested in taking a chartered roundtrip bus for a reasonable fee**

EXTRA COSTS INCURRED* (Applicant will pay upon acceptance)

_____ **Extra Banquet Tickets**

_____ **Field Trip**

_____ **TOTAL**

ESTIMATED TRAVEL COSTS*

(We have limited travel money available so we need this information for budgeting purposes.)

Do You Need Lodging?

Lodging is available at the Holiday Inn (1.800.477.7089) at the conference rate of $69/night. You will make your own reservation (http://www.seagrant.umn.edu/superior2007/accomodations/) once you have been notified of your scholarship. You will be reimbursed for lodging.

☐ Sunday night ☐ Monday night ☐ Tuesday night

Estimated Transportation Costs and Explanation

(Please tell us what mode of transportation you will use and estimate the cost you would like to recover.)

FAX to Cindy Hagley, MN Sea Grant (218-726-6556) or email to chagley@umn.edu.
Call Cindy Hagley at 218-726-8713 or email with questions.