

2007 Michigan Tech R/V Agassiz ~ School Reservation Form

Group Leader: _____ School: _____

Street, City, State, Zip: _____

Email: _____ Telephone: _____ Today's Date: _____

Number of Students: _____ Subject: _____ Grade: _____

Dates (list 3 possible dates/times): 1st choice: _____ 2nd choice: _____ 3rd choice: _____

Desired Trip Length (check): _____ Full-Day (8 hours) = \$880 _____ Half-Day (4 hours) = \$440

School Start time: _____ School End Time: _____

Do you want a 1- hour lab *after* the Agassiz trip with MTU faculty (\$60): yes no

Check your desired Agassiz Trip Leader: _____ Faculty (\$60/hour) _____ Graduate Student (\$15/hr)

Please calculate your costs and write in the TOTAL \$ _____ x .25 = YOUR TOTAL \$ _____

Boat (\$440 or \$880) _____ + Group Leader (\$60/hr (faculty) or \$15/hr (grad stud.) x (4 or 8 hrs) + Lab (\$60)

*Applies for each 2-hr cruise per group of 12-15 students.

What is your education goal for your Agassiz Trip: _____

Mark All Topics of Interest listed below (indicate priority: 1, 2, 3, etc.) that you'd like presented:

____ Introduction to Limnology and Scientific Research on the Great Lakes

A. Physical Limnology

____ Temperature Profiles - compare seasonal cycle of stratification: temperature v. depth

____ Light Profiles – measure light attenuation and primary productivity

____ Sediment Cores – compare depositional zones and biochemical characteristics of sediments

B. Chemical Limnology

____ Developing a Depth Profile for Dissolved Oxygen and pH

____ Phosphorus – Compare concentrations at different stations, and discuss its impact on lake productivity

____ Dissolved Color: use spectrophotometer to develop an adsorption spectrum for dissolved color; discuss why Lake Superior water is blue, when all of the tributaries contribute tannic brown water.

C. Biological Limnology

____ Food Webs and the Microbial Loop

- Collect and identify phytoplankton & zooplankton
- Role of indicator organisms
- Biomagnification

____ Benthic macroinvertebrate sampling

____ Fish populations

D. Navigation

____ Compass & map-reading

____ Electronic equipment

Email or Fax Reservation Request to:

Joan Chadde, Education Program Coordinator, Western UP Center for Science, Mathematics & Environmental Education
105 Dillman Hall - Michigan Technological University, 1400 Townsend Dr., Houghton, MI 49931

Tel: 906-487-3341 Email: jchadde@mtu.edu Fax: 906-487-1620

Michigan Tech Scientist(s) available for Middle/High School Education Programs

Dr. Marty Auer, Dept. of Civil & Environmental Engineering

Dr. Nancy Auer, Dept. of Biological Sciences

Dr. Sarah Green, Dept. of Chemistry

Dr. Casey Huckins, Dept. of Biological Sciences

Environ. Engineering Grad Students (Cory MacDonald, etc)

Dr. Bob Keen, Dept. of Biological Sciences

Dr. Charlie Kerfoot, Dept. of Biological Sciences

Dr. Judith Perlinger, Dept. of Civil & Environ. Engineering

Stephen Roblee, Dept. of Math Sciences

Dr. Noel Urban, Dept. of Civil & Environmental Engineering