Stream Monitoring Workshop ~ Grades 4-12

9:00am - 4:00pm ~ Wednesday, April 28, 2004
MTU Ford Forestry Center, Alberta

Registration Deadline: Wednesday, April 14, 2004

Teachers will learn how to design a stream monitoring project, identify appropriate parameters to monitor, and how to select monitoring stations. During the workshop, teachers will gather data to compare the ecological health of two streams through chemical, biological, and physical sampling procedures. The physical sampling consists of habitat assessment, and stream channel, velocity, and discharge measurements. The chemical sampling consists of temperature, phosphate, nitrate, turbidity, dissolved oxygen, pH, copper and iron tests. Biological sampling will utilize the EPA's and Michigan DEQ's rapid bioassessment protocols to collect and categorize various species of macroinvertebrates. Lastly, teachers will examine various methods of data analysis. The workshop topics address many Michigan content standards for science and math. Participants will receive a stream monitoring curriculum guide.

Registration Fee: $40 per person includes lunch, field trip, and workshop materials. Make check payable to Copper Country ISD. NOTE: Registration fees will be covered for teachers from schools in the CCISD Professional Development Consortium

Presenters:
Joan Chadde & Shawn Oppliger, Western UP Center for Science, Mathematics & Environmental Education

Transportation: a van will depart the CCISD at 7:45 AM to take teachers to MTU Ford Forestry Center and return to the CCISD at about 5 PM.

Questions: contact Shawn Oppliger at 482-0331 or sopplige@ccisd.k12.mi.us

To register:
Complete the attached registration form. Return registration form and payment by April 14 to:
Loret Roberts, Western UP Center
P.O. Box 270, Hancock, MI 49930 906-482-5031(fax)
Registration Form
Stream Sampling Workshop ~ Grades 4-12
9:00am - 4:00pm ~ Wednesday, April 28, 2004
MTU Ford Forestry Center, Alberta

Registration Deadline: Wednesday, April 14, 2004

Name:

School Name:

School Address:

Home phone:

Please check one:

_____ Registration fee: $40 (Make checks payable to Copper Country ISD)

_____ No registration fee for members of CCISD Professional Development Consortium.

How would you like to receive your workshop confirmation? (choose one)

_____ by Mail Mailing address ______________________________________________

_____ by Email Email address ______________________________________________

_____ I plan to ride in the van departing the CCISD at 7:45 AM to travel


to MTU Ford Forestry Center.

Return completed registration form and $40 fee (if applicable) to:

Loret Roberts, Western UP Center
P.O. Box 270, Hancock, MI  49930
FAX: 906-482-5031