



Shipping on the Great Lakes ~ K-8 Teacher Workshop at Thunder Bay National Marine Sanctuary ~ Alpena, MI

6-9 pm, Thursday, Oct. 2 and 8:30-3:30 pm, Friday, Oct. 3

Please register by: **Monday, Sept. 22**

NO CHARGE ~ Includes Thursday dinner, Friday lunch, and FREE classroom materials

About the Workshop

Explore Great Lakes shipping with guest presenters, hands-on activities, and guided tours of shipping facilities at this interdisciplinary workshop. Discover the fascinating history and current shipping operations in your own backyard! Receive ready-to-go lessons and materials for your classroom. Become acquainted with the *NEW* Great Lakes Maritime Transportation "Treasure Chest" available for check-out from the AMA-ESD and Thunder Bay National Marine Sanctuary.

Agenda (tentative)

- *Shipping on the Great Lakes* by Katie Ferguson, Great Lakes Fleet sales, marketing & traffic analyst.
- Explore the Great Lakes Maritime Transportation "Treasure Chest" activities.
- Life Aboard the Great Lake Freighters: presentation by a ship captain
- Tours of local ports and shipping facilities



Information & Registration

Cathy Green cathy.green@noaa.gov or
Joan Chadde, Workshop Coordinator
Western U.P. Center for Science, Math &
Environmental Education
105 Dillman Hall - Michigan Technological University
1400 Townsend Dr., Houghton, MI 49931
Tel: 906-487-3341 Email: jchadde@mtu.edu
Website: <http://wupcenter.mtu.edu>



Credit

One SB-CEU (no cost), one Michigan Tech graduate credit or one NMU ED 989 credit available (additional cost). Participants who write a lesson for the Thunder Bay NMS pre/post field trip guide will receive \$100.

Cost

FREE. Includes Thursday dinner, Friday lunch, tours, and classroom materials.

Location

Thunder Bay National Marine Sanctuary
500 West Fletcher St., Alpena, MI 49707
Tel: 989-356-8805 Web: www.thunderbay.noaa.gov

This workshop is supported with a grant from the Great Lakes Maritime Research Institute (<http://www.glmri.org>)

Co-Sponsors and contributors include:

- ◆ Thunder Bay National Marine Sanctuary ◆ Alpena Regional Educational Services Agency ◆ Great Lakes Fleet
- ◆ Great Lakes Maritime Research Institute at University of WI-Superior and University of MN Duluth
- ◆ Western U.P. for Science, Mathematics and Environmental Education ◆ Michigan Technological University