



**Great Lakes Maritime  
Research Institute**

A University of Wisconsin - Superior and  
University of Minnesota Duluth Consortium

**Michigan Tech**

# Great Lakes Maritime Transportation Teacher Institute

Only \$450  
includes lodging/meals  
and 2 credits

**July 20-25, 2008** (west-end of Lake Superior)

**Application Deadline: Friday, May 30, 2008 ~ 20 spaces available!**

## About the Course

Explore the historical, economical and environmental aspects of Great Lakes shipping at the "head of the lakes." Based in Duluth, participants will tour the Duluth-Superior harbor, Minnesota north shore, and meet with industry to better understand the various cargoes shipped, and how it is managed and regulated. The institute will provide unique learning experiences and the opportunity to share with fellow educators. The goal of the Institute is to provide participating teachers with a foundation in maritime transportation---history, current operations, and future challenges.

2006 participants had this to say:

- The field trips were powerful!
- Daily presentations were awesome.
- The institute helped me understand the way maritime transportation works and how it fits into our life.
- I was impressed with the wide variety of site visits that included all facets of the shipping industry from the arrival of goods by rail and port safety, to the shipping of goods to other Great Lake ports and global destinations.

## Course Credit

Participants may enroll for 2 semester credits from MTU. To receive credit, participants must: develop two new lessons which are due September 1, 2008.



## **Tentative Schedule**

### **Monday-Friday, July 20-25, 2008**

#### ***Sunday, July 20***

- Course overview (evening)

#### ***Monday, July 21***

- Duluth Seaway Port Authority
- Harbor tour aboard *Vista Queen* at Barker's Island
- S.S. William A. Irvin
- **Great Lakes Aquarium**

#### ***Tuesday, July 22***

- Tour Cleveland Cliffs iron mine & processing (Hibbing, MN)
- Coast Guard facility
- U.S. Army Corps Maritime Museum

#### ***Wednesday, July 23***

- Canadian National Ore Dock (Two Harbors, MN)
- *Edna G. Tugboat* tour
- Split Rock Lighthouse

#### ***Thursday, July 24***

- Midwest Energy Coal transition point (Superior, WI)
- Burlington Northern Taconite Facility & Ore Docks
- Balancing Social, Economic & Environmental Aspects of Great Lakes Shipping

#### ***Friday, July 25***

- Lake Superior Warehousing Company
- Murphy Oil

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

#### **Co-Sponsors and Contributors include:**

- ◆ University of Wisconsin-Superior ◆ Michigan Tech Transportation Institute
- ◆ Western Upper Peninsula Center for Science, Mathematics and Environmental Education
- ◆ Minnesota Seagrant ◆ Duluth Seaway Port Authority

# General Information

## Cost

The institute registration fee is only \$450 and includes five nights lodging, most meals, travel during the institute, two Michigan Tech University graduate credits (optional), classroom materials, and all admission fees. An MTU departmental stipend is provided that significantly reduces MTU tuition costs. (For comparison, 2005/06 MTU tuition rates *per credit* were: Undergraduate Resident \$252, Undergraduate Non-Resident \$625, Graduate Resident or Non-Resident \$468, and Applied Science Education Graduate Resident or Non-Resident \$323). Full payment is due by June 13. Refunds will be provided if the space is filled.

Participants will be eligible to receive \$100-\$250 for post-institute professional conference presentations, community outreach activities, or journal articles on teaching about Great Lakes transportation.

## Financial Aid

Applicants who are K-12 teachers in the eight Great Lakes states may apply for a scholarship through the COSEE Great Lakes program <http://coseegreatlakes.net/> (click on Marine Immersion). Contact Robin Goettel ([goettel@uiuc.edu](mailto:goettel@uiuc.edu)).

## To Apply/More Information

Application forms and updated information available at: <http://wupcenter.mtu.edu>  
The application deadline is: Friday, May 30.

### Submit applications to:

Joan Chadde, Institute Coordinator  
Western U.P. Center for Science, Math &  
Environmental Education  
105 Dillman Hall -Michigan Tech University  
1400 Townsend Dr., Houghton, MI 49931  
Tel: 906-487-3341 Fax: 906-487-1620  
Email: [jchadde@mtu.edu](mailto:jchadde@mtu.edu)

**\$450 Registration includes lodging,  
most meals, transportation,  
and 2 credits!**

# Michigan Tech



## Accommodations

Participants will spend five nights at the new Canal Park Lodge in downtown Duluth, and eat most meals with the group.

## Transportation

All transportation to sites *during* the institute will be provided. Participants may travel by Michigan Tech van from Houghton to Duluth on Sunday, or meet at Canal Park Lodge Sunday evening.

