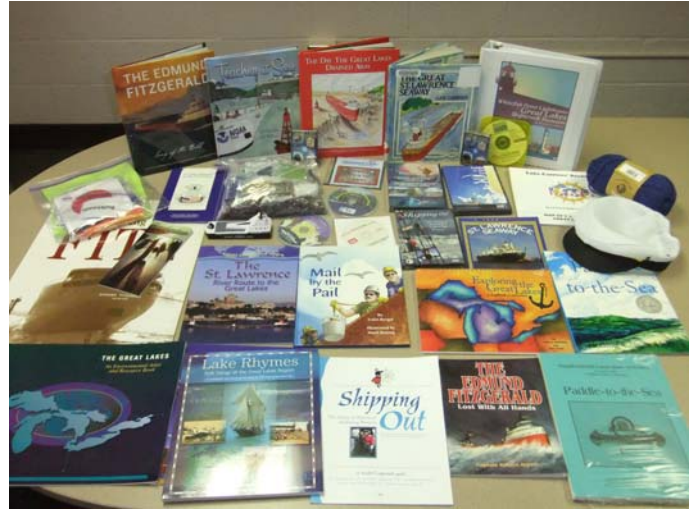


Purchase A Great Lakes Maritime Education “Treasure Chest” For Your Museum or Education Center – \$150!

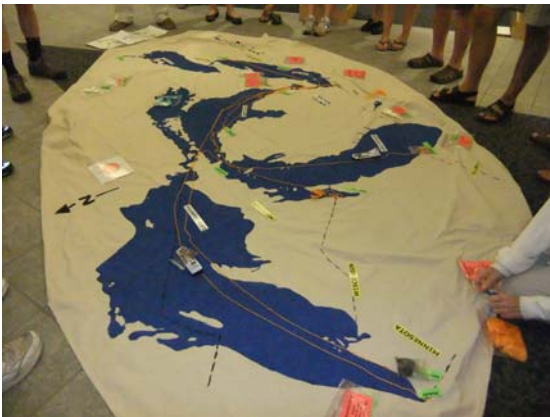
WHAT?

Great Lakes Maritime Education ‘Treasure Chests’ are available to maritime museums and education centers throughout the Great Lakes region: Minnesota, Michigan, Wisconsin, Illinois, Indiana, Ohio, New York, and Pennsylvania that are willing to act as a “lending site” to make the chest available to schools, teachers, and other educators in your local area. Chest recipients are asked to conduct an educator workshop to facilitate local educators becoming familiar with the chest. **FOUR \$200 grants available to conduct a 6-hour workshop on Great Lakes Maritime topics! Minimum of 12 educators must attend. Grants available on a first-come basis to reimburse you for your workshop expenses.**



WHY?

Few teachers, students, and Great Lakes residents have any knowledge of the maritime transportation industry operating on the Great Lakes. The shipping industry plays an essential role in moving 70-90% of the nation’s iron ore used in steel manufacturing, both western and eastern coal used by power plants throughout the Great Lakes basin, salt, and limestone, as well as many oversized items like wind generator parts. These cargoes are used in the manufacture of items that we use EVERYDAY, from household products to road and building construction, electricity, and vehicles.



Applicant Requirements in the 1st Year:

1. **Host a Great Lakes Maritime Education workshop** for educators that present lessons and resources from the “treasure chest.”
2. **Serve as a lending site to make the chest** available to educators in the local area.
3. **Use the chest** to host maritime education programs for K-12 students and community.
4. **Maintain a record of users for one year** after receiving the chest for grant reporting purposes.

How To Apply?

Complete the attached form and provide typewritten responses to the four questions on a separate page. Send application by mail, fax, or email to Joan Chadde.

Coordinated by the Center for Science & Environmental Outreach at Michigan Technological University.

The cost of the chest is subsidized with a grant from the Great Lakes Maritime Research Institute www.glmri.org and University of Wisconsin-Madison’s National Center for Freight & Infrastructure (CFIRE) <http://www.wistrans.org/cfire/>

Great Lakes Maritime Education “Treasure Chest”- ONLY \$150!

Contact Person _____ Date _____

Organization _____

In which Great Lakes watershed are you located: _____

Shipping Address: (street address required for UPS delivery) _____

City, State, Zip _____

Phone _____ Email: _____

Amount Due: \$150 Payment Method:

____ Cash/Check ____ Purchase Order Credit Card (circle one): Master Discover Visa

Payable to: Michigan Technological University Name on credit card: _____

Credit Card Number _____ Exp. Date _____

Please provide typewritten responses to the following questions on a separate page:

1. Describe your education/outreach program. What is your educational goal? Who is the target audience? How many people (K-12 students and adults) participate in your programs annually?
2. How will the *Great Lakes Shipping Education “Treasure Chest”* fill a niche in your center’s/museum’s programming and/or the services that you provide to educators in your area?
3. Will you be able to serve as a lending site for area educators and maintain a record of use for the first year? Describe your plan for advertising the availability of the *Great Lakes Shipping Chest* to area educators.
4. When will you offer a Great Lakes Maritime Education workshop for educators on Great Lakes shipping using the chest? What experience do you have in planning and conducting workshops for educators?

Submit your completed application to:

Joan Chadde, K-12 Education & Outreach Coordinator
Western Upper Peninsula Center for Science, Mathematics & Environmental Education
105 Dillman Hall – Michigan Technological University
1400 Townsend Dr., Houghton, MI 49931
Email: jchadde@mtu.edu Phone: 906-487-3341 Fax: 906-487-1620

What Recipients are saying about the Great Lakes Shipping Education Chest:

We have already used the Great Lakes Shipping chest in one workshop! It's wonderful. Thanks so much!

Wendy W. Smith, Great Lakes Research and Education Center, Indiana Dunes National Lakeshore, Porter, IN

The <chest> has already been used... and the large Great Lakes floor map is a wonderful addition to our programs!

Carolyn Rock, Whitefish Dunes State Park, Sturgeon Falls, WI

The chest is SO AWESOME!!

Wendy Lutzke, Museum Educator, Wisconsin Maritime Museum, Manitowoc, WI



Great Lakes Maritime Transportation Education for Communities and K-12 Students & Teachers

Great Lakes Maritime Education Chest Contents*

<p>HANDS-ON TEACHING SUPPLIES 9'x12' Great Lakes Canvas Floor Map Shipping & Receiving Port labels Country, State, River labels Yarn Bagged samples of: iron ore/taconite pellets, coal, limestone, wheat, salt, container cargo (LEGOs) (3-5 bags of each) Great Lakes Ships playing cards (2 decks) Foam Great Lakes Ship (ore carrier) Capitan's Hat</p> <p>CHILDREN'S LITERATURE A True Book: The St. Lawrence Seaway The Day the Great Lakes Drained Away Mail by the Pail The Great St. Lawrence Seaway The Edmund Fitzgerald: Lost With All Hands Paddle to the Sea The Edmund Fitzgerald: The Song of the Bell The Big Fitz (big book) Teacher at Sea St. Lawrence: River Route to the Great Lakes</p> <p>REFERENCES U.S. Flag Shipping on the Great Lakes brochure (Lake Carriers' Assn) (8) Great Lakes Environmental Atlas U.S. Army Corps Soo Locks brochure Lake Carriers Assn Map of Great Lakes and Canadian Ports (8)</p>	<p>VIDEOS / CDs / DVDs Steel Starts Here DVD Living on the Edge: Great Lakes-St. Lawrence River Shoreline DVD (25 min) Shipping Out: The Story of America's. Seafaring Women DVD Perspective of a Vital Waterway: The Great Lakes- St. Lawrence Seaway System DVD (21 min) NOAA Education CD</p> <p>CURRICULUM MATERIALS Exploring the Great Lakes: A Logbook of Adventures <i>More Than Just A Lake</i> lesson in Lake Effects K-8 Curriculum Guide Lake Rhymes – Folk Songs of the Great Lakes Region CD & Book Paddle to the Sea Curriculum Activity Guide Shipping Out Teacher's Companion Guide Whitefish Point Lighthouse & Great Lakes Shipwreck Museum K-8 Lessons & Activities and Great Lakes Maritime Transportation Lessons (notebook) Great Lakes Shipping PowerPoint Presentations (CD in notebook)</p> <p>Posters Diagram of Parts of a Ship & labels Great Lakes map (NOAA #14500) Great Lakes Watershed Map (as available)</p> <p>**All materials comes packed in a clear plastic tub.</p>
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*Some books and DVDS are dependent upon availability