



# Great Lakes Maritime Research Institute

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

## Quarterly Update

## January 2007

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Co-Directors: Richard D. Stewart & James P. Riehl

We are looking forward to another year of progress and success in moving the Institute along in developing it as a research center supporting sustainable maritime commerce in the Great Lakes Region.

In December, we received the funding from the US Maritime Administration, and have processed the paperwork to send out the funding to support the research and outreach efforts at the affiliate universities. Projects initiated under the new grant are listed on the back.

The “end of grant” report for the first federal funding grant has been finalized and is accessible on-line at [www.glmri.org](http://www.glmri.org). Paper copies and CDs will be mailed by the end of January.

Personnel Update: Carol Wolosz has assumed the role as the Assistant Director for the Institute. She will continue to support the Institute, but in a position now working for both co-directors, solely for GLMRI. Dr. Riehl has resumed the role as co-director for UMD. Also, Dr. Xiubin Wang has accepted a position at the University of Wisconsin-Madison Transportation Research Center.

### New Affiliate University:

Our most recent addition to our affiliate universities is University of Findlay, in Ohio. They bring a background of maritime security training with their center for Terrorism Preparedness. They join GLMRI along with the Great Lakes Maritime Academy, University of Michigan, University of Toledo, University of Wisconsin-Madison, Michigan Technological University, Purdue University and Purdue North Central University.

### Key Planning Dates

RFP Release April with proposals due the end of May

Advisory Board Meeting  
September 27, 2007  
Duluth/Superior

Affiliate University Conference  
September 28, 2007  
Duluth/Superior

MTU GL Teachers' Workshop  
July 29 to August 3, 2007

Maritime Day Expo  
February 27, 2007  
Cleveland, Ohio

## Projects for FY 07 Underway

- Testing Relationships between Propagule Pressure and Colonization Success of Invasive Species (University of Minnesota Duluth and the University of Wisconsin-Superior's Lake Superior Research Institute in cooperation with the Northeast Midwest Institute)
- Evaluating the impact of long term storage at low temperatures of Biodiesel fuel blends for consideration of use in marine vessels on the Great Lakes (University of Minnesota Duluth)
- Part II: Hydrodynamic optimization testing of the model built under the first grant for the ballast-free ship design (University of Michigan)
- Phase II of implementing the Great Lakes Maritime Information Delivery System (University of Toledo)
- Continued support from Minnesota Sea Grant for extension education and outreach projects
- A review of the Great Lakes shipbuilding and repair capability – Past, present and future (University of Michigan)
- Structure of Bacterial Communities Associated with Accelerated Corrosive Loss of Port Transportation Infrastructure (University of Minnesota Duluth)
- A multibeam bathymetry and sidescan-sonar survey of the Duluth-Superior Harbor and nearshore (University of Minnesota Duluth)
- Year 2 of a marine transportation and port education program for K-12 teachers (Michigan Technological University)
- Research support for initiatives in developing the supply chain and marine transportation of taconite tailings for use in highway construction (University of Minnesota Duluth and University of Wisconsin-Superior)

### GLMRI Participation Outreach Events/Presentations/Meetings Oct – Dec 2006

- "Great Lakes Maritime Research - Future Shipping Opportunities", Great Lakes Commission Annual Meeting, Duluth, MN, October 4, 2006
- "Great Lakes Maritime Commerce Research", Council of Great Lakes Research Managers Annual Meeting, Duluth, MN, October 3, 2006
- GLMRI Advisory Board Meeting & Affiliate University Meeting, Duluth, MN, October 6 & 7, 2006
- "Update on GLMRI Research Projects", University Transportation Center Meeting at University of Wisconsin, Madison, WI, October 13, 2006
- Data Workshop II, University of Toledo, Toledo, OH, November 7, 2006
- MTS National Advisory Council, Jacksonville, FL, December 5-6, 2006
- USACE Great Lakes Stakeholders' Meeting, Cincinnati, OH, December 7, 2006



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