



Great Lakes Maritime Research Institute

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

Co-Directors:
Richard D. Stewart
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October 2010

Quarterly Update

(July - September 2010)

GLMRI Fall meetings

GLMRI held its 5th Annual Meeting on Sept. 21-24, in Superior, WI and Duluth, MN. The meetings showcased on-going projects, and provided a venue for comments and feedback. The Steering Group for the Great Lakes/St. Lawrence Seaway Economic Impact Study met at the Lake Superior Maritime Visitors Center Duluth, Minn. and Dr. Doorn went over the progress to date and issues with the model.

The GLMRI Advisory Board met at the Richard I. Bong Veterans Heritage Center in Superior, WI. New members to the Board this year are LTC Michael Derosior, Commander of the USACE-Detroit District Office and Cmdr Tim Cummins from the US Coast Guard 9th District Office in Cleveland, OH.

The Affiliate Research meetings were held at the Barkers Island Inn conference center. Members from the industry and government agencies along with academics and non-profit associations were in attendance.

(Pictured below: Economic Analysis Steering Group)



Upcoming Great Lakes Maritime Teacher Workshop

at the Great Lakes Shipwreck Museum and
Whitefish Point Light Station in Michigan,
Friday and Saturday, Nov 5-6, 2010
Registration Details at www.glmri.org

Results Announced from the 2010/11 Proposal Selection Process

In a very tight funding year, GLMRI received eleven proposals from affiliate universities in June. The GLMRI Co-Directors completed the research selections in August after an extensive review process, and tough decisions were made in order to balance the available funding while covering key research areas. Each proposal was reviewed by a panel of academics and representatives from the maritime industry and governmental agencies. The following projects were selected to be funded for the 2011 research year.

1. The Economics of a Bi-State Truck Ferry
Dr. Thomas Brady, Purdue North Central University
2. Air Lubrication Drag Reduction on Great Lakes Ships
Dr. Steven Ceccio, University of Michigan
3. Great Lakes Maritime Education Program for K-12 Teachers, Students and Communities
Ms. Joan Chadde, Michigan Technological University
4. Economic Impact of the Great Lakes and St. Lawrence Seaway System (GLSLS), Oct 2010-Oct 2011
Dr. David Doorn, University of Minnesota Duluth
5. Phase II- Developing a Risk Assessment Tool to Predict the Accelerated Corrosive Loss of Port Transportation Infrastructure: Model Validation and Regional Application
Dr. Randall Hicks, University of Minnesota Duluth
6. Combining Fine Dredged Materials and Biosolids for Sustainable, Beneficial Reuse
Dr. Nathan Johnson, University of Minnesota Duluth
7. Expanding Regional Freight Information Resources for the Upper Midwest Phase VI: The Great Lakes Maritime Information Delivery System: A Resource for the Regional Analysis of Intermodal Freight Flows in the Great Lakes Region
Dr. Peter Lindquist, University of Toledo

Key Outreach, Events, Presentations, Meetings

- Ms. Joan Chadde, Michigan Technological University, conducted the second GLMRI 2010 summer workshop for teachers, focusing on learning mathematics through marine navigation on the R/V *Agassiz*. Houghton, MI. Jun 28-Jul 2.
- Transportation Research Board Summer Meeting, Minneapolis, MN. Jul 11-14.
- Dr. Stewart and Carol Wolosz met with key GLMRI stakeholders to provide updates on GLMRI program activity. Washington, D.C. Jul 25-26.
- Press conference was held for EPA Grant award. Superior, WI. Jul 30.
- Carol Wolosz and Dr. Lindquist and his research team (University of Toledo) presented at the 2010 Mid-Continent Transportation Research Forum hosted by the Wisconsin Transportation Center at the University of Wisconsin. Madison, WI. Aug 19-20.
- Dr. David Doorn, University of Minnesota Duluth, presented an update on the Great Lakes/St. Lawrence Seaway Economic Impact Study at the Wisconsin Commercial Ports Association meeting. Superior, WI. Aug 19.
- John Carroll University hosted the conference, *The Great Lakes/St. Lawrence Marine Highway – “Fitting the Pieces Together”* with Administrator Terry Johnson from the St. Lawrence Seaway Development Corporation as the keynote speaker. GLMRI provided sponsorship for this event. Cleveland, OH. Aug 30.
- Dr. Stewart (University of Wisconsin-Superior) presented a session at the Ohio Conference on Freight, titled, “A Holistic Transportation and Logistics Education System,” Toledo, OH. Sep 14-15.
- GLMRI Annual meetings. Superior, WI. Sep 22-24.

GLMRI Partners with Industry for EPA Grant

GLMRI has been awarded a \$750,000 US EPA Region 5 Midwest Clean Diesel Initiative grant to help reduce air emission from a 1,000-foot Great Lakes ore carrier. GLMRI partnered with Key Lakes I, Inc., a major Great Lakes vessel operator, on the project that will enable Key Lakes to repower the M/V *Edwin H. Gott* during the year-long project. A press conference to announce the award was held in Superior, WI on Friday, July 30.



Press conference speakers (left to right): Mr. Don Kurz, President, Keystone Shipping Company; Drs. Richard Stewart and James Riehl, GLMRI Co-Directors; and Steve Marquardt, Coordinator, US EPA Region 5

GLMRI Focus at TRB meeting

Dr. Stewart chaired a panel titled *The Future of Great Lakes Transportation* at the Transportation Research Board (TRB) Joint Summer Meeting held July 11-14, 2010, in Minneapolis, MN. Panelists included Mr. Craig Middlebrook, Deputy Administrator, St. Lawrence Seaway Development Corporation, *An Effective Ballast Water Management Program for the Great Lakes-St. Lawrence Seaway*; Ms. Sandra Beaupre, Wisconsin Department of Transportation, *Connections 2030: Wisconsin's Long Range Transportation Plan-Integrating Waterways*; Mr. Ray Johnston, President, Chamber of Marine Commerce, Canada, *Green Marine: A Binational Industry Partnership in Maritime Environmental Management*; and Mr. Andy McDonald, Arrowhead Regional Development Commission, *A Successful Collaborative Waterfront Planning Model*.



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