



Great Lakes Maritime Research Institute

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

Quarterly Update

(January–March 2013)

April 2013

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



Great Lakes Waterways Conference and Society of Naval Architects and Marine Engineers (SNAME) Winter Meeting

Dr. Richard Stewart, GLMRI Co-Director, was part of the MARAD Panel at the Great Lakes Waterways Conference, held in Cleveland, Ohio on 12-13 February 2013. Dr. Stewart provided an overview of LNG along with an update on the GLMRI project. Mr. Carter, the MARAD Director for Environmental Programs, moderated the session. Mr. Mark Barker, President, Interlake Steamship Co. provided an industry perspective on shifting to LNG as a marine fuel.

GLMRI worked with the Society of Naval Architects and Marine Engineers Great Lakes and Rivers Section to host a meeting on the continuing movement to LNG. On Wednesday afternoon, a gas tutorial was presented by Dr. Jerry Hutton from Clean Fuels Ohio. A reception was held that evening to allow the attendees to network and discuss the afternoon session. Students from the University of Michigan's Naval Architecture and Marine Engineering program were in attendance.

On Thursday, the session opened with a detailed presentation by Dr. Michael Parsons on his final report on the study to convert the Great Lakes Steamships to LNG. Other sessions included Mr. Michael McLean, Director of New Business Development for Trans-Canada Pipeline Company, Mr. Mesgina Risat, from GE Oil and Gas, Turbo Machinery Division and Mr. Holt Bradshaw from Pace Global Energy Management.

After lunch, a tour was set up for the group to visit the Pilot Station in Seville, Ohio, to tour the LNG platform and observe truck fueling. Sixteen people attended the tour, and were able to observe 2 trucks fuel and witness the controls and safety procedures for the drivers to fuel their trucks. Dr. Hutton and Mr. Paul Chadcort, the facility manager from Clean Energy Fuel, provided the tour and information on the pumping and storage, along with the safety and controls that are built into the operation.

Special thanks to Harbor House Publishers, B&B Riverboats and USCG/Mark Bobal for their assistance in distributing the new GLMRI Annual Report at this venue!

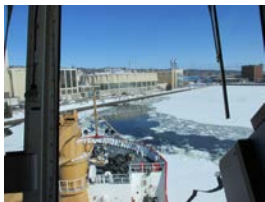
GLMRI Co-Hosts the 2013 James L. Oberstar Forum “21st Century Transportation Systems: Challenges and Opportunities for Academia”

GLMRI Co-Director and Dean of the Swenson College of Science and Engineering James Riehl moderated the forum at the University of Minnesota Duluth on Wednesday, March 13, 2013. Mr. James Sharrow, the Facilities Manager from the Duluth Seaway Port Authority, provided the maritime perspective on the panel of speakers. Mr. Sharrow tied in the research projects that GLMRI has been working on with the Port. Former Congressman and Chair of the House Transportation and Infrastructure Committee Jim Oberstar provided his extensive views on the need for critical investment in the American transportation infrastructure.

Strategic Port Development Plan Benchmarking Effort Underway

GLMRI with Prime Focus, LLC is working with the Wisconsin Commercial Ports Assoc. to develop a best practices report based on plans that have already been developed in other states and Canada.

USCG Cutter Mackinaw Opens the Duluth/Superior Harbor



The Cutter Mackinaw visited the port on the 16-17 March to open shipping lanes for the 2013 season. Carol Wolosz was invited to join a group for

the Sunday morning ice breaking. The Commander and crew provided an operational tour for industry and media guests while in the harbor. In addition to ice breaking, the Mackinaw services buoys, provides search & rescue, law enforcement and the ability to deploy an oil skimming system to respond to oil spill situations.

Mark Your Calendars and Plan to Attend

May 8, 2013 – LNG Tutorial and Meeting hosted by Pivotal/AGL Resources. Joliet, IL.
(Contact: Mr. Joe Hoyt, hoyt@aglresources.com)

May 13-15. Ports of Rotterdam and Amsterdam Conference and Meetings
Co-hosted by GLMRI Affiliate John Carroll University
(Contact: Dr. Brad Hull, bzhull@jcu.edu)

May 21, 2013 – LNG: Siting a Liquefaction Plant in Duluth/Superior.
GLMRI hosted meeting at University of Wisconsin-Superior. (Registration info at: www.glmri.org)

Key Outreach, Events, Presentation, and Meetings

- Dr. Stewart and Ms. Wolosz met with the Executive Director of the American Great Lakes Ports Association. Washington, D.C. 13 Jan.
- GLMRI staff and researchers participated in the 2013 Transportation Research Board. Dr. Stewart presented GLMRI updates at the Marine Environmental and the Ports & Channels Committees. Dr. Zamira Simkins from the University of WI-Superior presented: **Measuring a Port's Performance Using the Economic Value of Commodities**. Ms. Wolosz received a membership appointment to the Ports & Channels Cmt. Washington, D.C. 13-16 Jan.
- Dr. Stewart and Ms. Wolosz met with MARAD personnel (Deputy Administrator Jaenichen, Mr. McMahon, Mr. Carter and Mr. Yuska) to discuss the LNG study. They also met with USCG representatives and with the St. Lawrence Seaway Development Corporation Acting Administrator and staff to discuss on-going studies. Washington, D.C. 15 Jan.
- Dr. Stewart attended the Marine Club meetings in Toronto, Canada hosted by the American Great Lakes Ports Association. Toronto, ON. 17-19 Jan.
- Ms. Wolosz met with Mr. Mittlefehldt, from the Northeast Minnesota Clean Energy Resource Team to discuss possible assistance for an energy-related project for the Duluth area. Duluth, MN. 31 Jan.
- Ms. Wolosz met with Mr. Jeff Anderson representing ECOAFS to discuss potential pilot maritime conversion projects. Hinckley, MN. 1 Feb.
- Ms. Wolosz met with the newly appointed commissioner for the SLSDC, Dr./Captain Art Sulzer, to provide him an update of GLMRI research projects, including the LNG Study. Cleveland, OH. 11 Feb.
- Great Lakes Waterways Conference and SNAME Section Winter meeting. Cleveland, OH. 12-15 Feb.
- Ms. Wolosz participated in the Spring Ship Operations Cooperative Program meeting held at the STAR Center. Dania Beach, FL. 20-21 Feb.
- Dr. Stewart was a speaker at the LNG Fuel Forum North America. Miami, FL. 27-28 Feb.
- Ms. Wolosz attended the Inland Waterways Conference. Louisville, KY. 5-7 Mar.
- Oberstar Transportation Forum at University of Minnesota Duluth. 13 Mar.
- Dr. Lindquist (University of Toledo) and Ms. Wolosz participated in the HWY H₂O Advisory Council Teleconference. 18 Mar.
- Dr. Branstrator and Ms. Wolosz had a telecon/project review with Lake Carriers Assoc. on the Ballast Tank Sediment Study. 19 Mar.
- Dr. Stewart participated in a planning meeting with the Council of Great Lakes Governors. Chicago, IL. 21 Mar.
- Ms. Libby Ogard attended the Green Bay Port Symposium. Green Bay, WI. 28 Mar.

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