



Great Lakes Maritime Research Institute

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

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

July 2013

Quarterly Update

(April - June 2013)

The MARAD Great Lakes Natural Gas Feasibility and Design Study prepared by GLMRI was finalized and is now available on the GLMRI web page at www.glmri.org/research/

Meeting Held to Discuss Siting a Natural Gas Liquefaction Plant in Twin Ports Region

On Tuesday, May 21st the Great Lakes Maritime Research Institute (GLMRI) along with support from the Duluth Seaway Port Authority (DSPA), hosted a meeting at the University of Wisconsin-Superior to bring together members from the natural gas industry, along with current users of natural gas to meet with community and industry leaders to pursue building a liquefaction plant in the Duluth/Superior area. About 100 people gathered from the gas industry, governmental agencies and potential users to participate in the discussions. The Duluth/Superior region would provide a key location for another gas liquefaction facility that could reach out to a 250 mile radius at the western end of the Lakes. A plant in the Twin Ports would complement the Shell facility that was announced in March, being built in Sarnia, Ontario to support shipping and other Great Lakes industries. The speakers at the meeting supported this concept and discussed several on-going projects and some of the equipment needs to support a fuel transition to natural gas. A detailed summary of the meeting and the presentations are available at www.glmri.org/research/.



GLMRI Co-Director Selected for EPA Advisory Board

The Environmental Protection Agency (EPA) announced in March the first advisory board to support the implementations of the Great Lakes Restoration Initiative.

Dr. Richard Stewart was competitively selected for a 2-year appointment to the Great Lakes Advisory Board (GLAB). The GLAB will provide advice and recommendations to the EPA Administrator who chairs the



Federal Interagency Task Force. Dr. Stewart will bring a strong background in maritime transportation and Great Lakes industry to the GLAB. Since the announcement, the GLAB has had monthly meetings/teleconferences to pursue their agenda.

Plan for GLMRI Fall Meetings

GLMRI will host its annual research meetings in conjunction with the HHP Summit and the SNAME Great Lakes and Rivers Section meeting in Chicago, IL (McCormick Place). In lieu of a separate GLMRI meeting, GLMRI will present updates at both the HHP Summit and the SNAME Meeting as part of their agendas. The HHP Summit is a 3-day event (17-19 September) showcasing North America's natural gas fueling and technology for high horsepower applications. GLMRI attendees for the Summit can receive a discounted registration fee. We are working with the SNAME Section to co-sponsor a combined reception on Thursday, Sep 19th at the Hyatt-McCormick Place. Also on Thursday, non-HHP registrants attending the GLMRI/SNAME meetings will be able to obtain a no-charge pass to the HHP Trade Show Exhibits (From 8:00 AM to 12:30). The GLMRI Advisory Board will meet on Thursday afternoon, Sep 19th. SNAME will hold technical presentations on Friday, Sep. 20th, concluding with lunch. For more information, contact Carol Wolosz at cwolosz@d.umn.edu.

GLMRI Project Receives International Recognition by SNAME

Drs. Michael Parsons and David Singer's paper "Integrated Electric Plants in Future Great Lakes Self-Unloaders" is receiving an Honorable Mention for the Vice Admiral E.L. Cochrane, USN Award. The Cochrane Award is awarded to the best peer reviewed presentation published by SNAME. Drs. Parsons and Singer are professors in the GLMRI affiliate University of Michigan, Naval Architecture and Marine Engineering Department. The paper was originally published in the Journal of Ship Production and Design, Vol 27 #4, Nov 2011 and is also available on the GLMRI web page.

(www.glmri.org/research/completed0910)

Mark Your Calendars Plan to Attend

The next USCG Towing Safety Advisory Committee is scheduled for 4-6 Sep in Chicago, IL (Third floor, Robert G. Metcalfe Federal Bldg., 77 West Jackson Blvd). Subcommittee meetings will be held on Wed, Sep 4th, and the Full TSAC committee on Sep 5th and the morning of the 6th. (POC Mr. Bill Abernathy, William.J.Abernathy@uscg.mil or (202)372-1363)

High Horse Power Summit



www.hhpsummit.com

Sep 17-19, 2013

McCormick Place/Chicago

GLMRI Advisory Board meeting

Sep 19, 2013

McCormick Place/Chicago

Great Lakes and River Section Society of Naval Architects and Marine Engineers

Fall Meeting

Sep 19 -20, 2013

McCormick Place/Chicago

Key Outreach, Events, Presentation, and Meetings

- Ms. Wolosz was an invited participant in the White House Office of Engagement and Department of Transportation's Forum on Women in Transportation. Washington, D.C. 4 Apr.
- Ms. Wolosz presented an overview of GLMRI and the LNG Study at the Rotary Club meeting. Superior, WI. 9 Apr.
- Ms. Wolosz presented and assisted with coordinating the K-12 Maritime Education Symposium held at The Maritime Academy of Toledo. Toledo, OH. 25-27 Apr.
- Dr. Stewart and Ms. Wolosz met with Acting Administrator Craig Middlebrook of the St. Lawrence Seaway Development Corporation (SLSDC), along with Mr. Eric Norberg, President of ALLETE Clean Energy, Mr. David McMillan, Vice President of ALLETE Clean Energy and SLSDC board member, Mr. Adolph Ojard, Executive Director of the Duluth Seaway Port Authority and Mr. Dale Bergeron from Minnesota Sea Grant and discussed the LNG project and the pending LNG Liquefaction Plant Siting meeting. Duluth, MN. 7 May.
- Dr. Zamira Simkins (University of WI-Superior) and Ms. Wolosz met with Mr. Middlebrook to discuss Dr. Simkins' research report on the value of the cargo. Superior, WI. 9 May.
- Ms. Wolosz coordinated a tour of the Great Ships Initiative's Ballast Water Treatment Testing Facility for Mr. Robert Dorn and Mr. Jayson Toth from Interlake-Steamship Company. Superior, WI. 9 May.
- LNG: Siting a Twin Ports Liquefaction Plant meeting. Superior, WI. 21 May.
- Dr. Stewart participated in the EPA's Great Lakes Advisory Board teleconference. 20-21 May.
- Dr. Stewart and Ms. Wolosz attended the Duluth/Superior Maritime Day program, featuring Mr. Steve Fisher, Executive Director, American Great Lakes Ports Association as the guest speaker. Duluth, MN. 22 May.
- Dr. Stewart and Ms. Wolosz met with Mr. Steve Fisher to provide an update on the LNG project and a summary of the meeting. Information was also exchanged to support the industry outreach programs and assist with tutorial information on LNG. Superior, WI. 23 May.
- Dr. Stewart presented and moderated a panel of maritime experts at Capitol Hill Oceans Week. Washington, D.C. 4-6 Jun.
- Ms. Wolosz attended the Harbor Technical Advisory Committee meeting. Duluth, MN. 5 Jun.
- Ms. Wolosz attended the USCG Change of Command Ceremony for the Marine Safety Office. Duluth, MN. 6 Jun.
- Ms. Wolosz along with members of the Duluth Seaway Port Authority met and boarded the *T/S State of Michigan* while it was docked in Duluth Harbor on its summer training voyage. Duluth, MN. 11 Jun.
- Mr. Helland and Dr. Mokashi attended the "LNG for Marine Transportation" conference. Houston, TX. 11-12 Jun.
- Dr. Stewart, Ms. Wolosz, Dr. Mokashi and Ms. Roemhildt participated in a meeting to discuss siting a natural gas liquefaction plant in the Twin Ports. Superior, WI. 13 Jun.
- Ms. Wolosz attended the Propeller Club program and met the new owner of the Vista Cruise Lines. Duluth, MN. 14 Jun.
- Ms. Wolosz met with Captain Helland, USCG (ret), to discuss the research progress on the LNG project. Duluth, MN. 24 Jun.
- Dr. Stewart provided a presentation on "Ports and LNG as a Maritime Fuel" at The American Association of Port Authorities, Maritime Economic Development Workshop. Chicago, IL. 26-28 Jun.

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