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Great Lakes Maritime Research Institute

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

April 2015

Quarterly Update

(January – March 2015)

GLMRI at the 94th Annual Transportation Research Board Meeting (Jan 2015)

In the Monday morning session on Liquefied Natural Gas (LNG) as a Marine Fuel: Operations and Infrastructure (Session 294), Dr. Stewart presented “Port and Terminal Operations” and discussed the findings from the GLMRI LNG research. Also on the panel was Dr. James Corbett from the University of Delaware, who presented an analysis on vessel emissions. Dr. Corbett and Dr. James Winebrake (Rochester Institute of Technology) participated in the GLMRI research preparing an emission analysis for fueling alternatives for the *S.S. Badger*. Earlier in the morning, Dr. Stewart and Ms. Wolosz presented at a poster session: “Development of Adoption of Liquefied Natural Gas as a Fuel for Shipping on the Great Lakes”.

Additionally, Dr. Stewart presented on “Rail Served Intermodal Terminals in Rural Regions: Challenges and Opportunities” at the Intermodal Freight Terminal Design and Operations Committee.

GLMRI is also represented on two of the marine committees at TRB: Dr. Stewart – Marine Environmental and Logistics of Disaster Response and Business Continuity Committee AT065 Committees and Ms. Wolosz – Ports and Channels Committee.

Great Lakes Congressional & Senate Delegation Presentations on LNG

While in Washington, D.C. for the TRB meetings (January 13, 2015), through the Northeast-Midwest Institute, Dr. Stewart presented to the Great Lakes Delegation at the Rayburn House Office Building an overview on LNG in Great Lakes Transportation. Joining the session, Ms. Amy Farrell, Vice President for America’s Natural Gas Alliance (ANGA) presented a broader view on the use of natural gas throughout the nation. Ms. Wolosz worked with Ms. Danielle Chesky, Director of the Great Lakes Washington Program at NEMW Institute to coordinate the session. Drs. Corbett and Winebrake also attended to address questions on fuel emissions.

Meeting Held in St. Louis with Inland Waterways Operators and Industry

GLMRI in conjunction with and support from the Maritime Administration, Department of Transportation, hosted a meeting of stakeholders to discuss the possibilities of using Liquefied Natural Gas (LNG) as a marine fuel for the inland waterways. Topics discussed included: LNG supply, marine LNG technology, LNG towboat designs and related economics. The meeting was held on Thursday, March 5, 2015 after the closing of the Inland Waterways Conference (IWC) in order to maximize the attendance of the participants. The meeting was a dialogue between potential users, government agencies and LNG and equipment developers to explore options for using natural gas as a maritime fuel by river boats. Presentations from the meeting are posted on the GLMRI web page:

www.glmri.org/news/

Tour of Seville, OH Clean Energy LNG Fueling Station

On a cold day in February, GLMRI coordinated a tour of the Clean Energy Truck Station (LNG) in Seville, Ohio. Members of the Coast Guard attended to better understand the landside operations of LNG as LNG expands to U.S. ports and harbors. Administrator Betty Sutton, St. Lawrence Seaway Development Corporation, also braved the weather to see the facility along with several



members from the Society of Naval Architects and Marine Engineers, Great Lakes and Great Rivers Section. Mr. Paul Jankford from

Clean Energy Fuels provided information on safety protocols for fueling the trucks along with the transfer of LNG from the tanker trucks to the on-site storage tanks. Mr. Todd Fowler, the Clean Energy National Account Manager assisted with the tour.

Of Note:

- International Shipmasters Convention

GLMRI assisted with the annual International Shipmasters' Convention February 5-7, 2015 in Duluth, MN. The theme of the convention was *Blue is the New Green*. GLMRI coordinated several speakers for the convention. Captain Steve Teschendorf, Commander of the Soo Sector, U.S. Coast Guard and Mr. Ray Johnston, President of Green Marine Management Corporation and also the Chamber of Marine Commerce



discussed their agencies perspectives on environmental initiatives that will impact shipping. Mr. Ryan Felsenthal from Chart Industries presented on their LNG project developments that will support shipping. Dr. Stewart was the key note speaker for the banquet where he discussed maritime LNG conversions and MARAD supported work with GLMRI.

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Mark Your Calendars—Plan to Attend

Transportation Research Board Freight Systems and Marine Committees

Summer Meeting

Washington, D.C.

June 24-26, 2015

www.trb.org

2015 World Maritime Day Maritime Education and Training Summit

(MITAGS) Linthicum, MD

October 5-7, 2015

(SOCP Co-Sponsors)

Great Lakes & Great Rivers Section, Society of Naval Architects and Marine Engineers Meeting

October 7-8, 2015

With the Canadian Institute of Marine Engineering
Location in Ontario, Canada (TBD)

Key Outreach, Events, Presentations, & Meetings

- Dr. Stewart, Dr. Mokashi and Ms. Wolosz participated in the annual Transportation Research Board meetings and sessions. Washington, D.C. 10-14 Jan.
- Dr. Stewart presented an update on LNG to the Great Lakes Senate and Congressional Delegation. Washington, D.C. 13 Jan.
- Dr. Stewart and Ms. Wolosz met with Mr. Bobby Hamill from Congressman Sean Duffy's office and Senator Ron Johnson and Legislative Assistant Tom Petri to discuss the conversion of the maritime industry to LNG and the potential impacts for the state of Wisconsin. Washington, D.C. 13 Jan.
- Dr. Stewart and Ms. Wolosz met with Mr. Carter, Mr. Yuska and Mr. Thompson to discuss the continuing LNG development. Washington, D.C. 14 Jan.
- Dr. Stewart participated at the Green Marine meeting, Marine Club, Chamber of Marine Commerce and HWY H₂O meetings. Toronto, Canada. 15 Jan.
- Ms. Wolosz participated in the America's Natural Gas Alliance's (ANGA) LNG Maritime Strategy Meeting. Washington, D.C. 4 Feb.
- Dr. Stewart, Ms. Wolosz and Ms. Roemhildt assisted with the speaker coordination for the International Shipmaster's Convention. Duluth, MN. 5-7 Feb.
- Ms. Wolosz participated in the Great Lakes Council of Governors, Maritime Task Force Advisory Committee meeting. Cleveland, OH. 9-10 Feb.
- Dr. Stewart and Ms. Wolosz were involved in the Great Lakes Waterways Conference. Ms. Wolosz was on the planning committee and GLMRI was a conference sponsor of the event. Cleveland, OH. 10-11Feb.
- Dr. Stewart and Ms. Wolosz participated at the Society of Naval Architects and Marine Engineers, Great Lakes and Great Rivers Section meeting. Cleveland, OH. 11-12 Feb.
- Ms. Wolosz participated in the Inland Rivers Ports and Terminals (IRPT) and the Upper Mississippi River Basin Associations' Ports, Terminals and Operators Workshop. Dubuque, IA. 24-25 Feb.
- Dr. Stewart and Ms. Wolosz participated in the Inland Waterways Conference. St. Louis, MO. 3-5 Mar.
- Dr. Stewart, Ms. Wolosz and Ms. Roemhildt hosted and coordinated the Inland Waterways Stakeholders meeting for converting to LNG. St. Louis, MO. 5 Mar.
- Dr. Stewart and Ms. Libby Ogard presented on the GLMRI/Wisconsin Commercial Ports Association Port Planning Benchmarking Study at the Annual Transportation Research Forum. Atlanta, GA. 11-13 Mar.
- Ms. Wolosz represented UW-S/GLMRI at the Logistics Council of Milwaukee's Annual State of Transportation Review. Wauwatosa, WI. 19 Mar.

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