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# Great Lakes Maritime Research Institute

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

## January 2015

## Quarterly Update (October - December 2014)

### John Carroll University Hosts Annual GLMRI Meetings

John Carroll University, in University Heights, Ohio (Cleveland area), hosted the annual GLMRI Advisory Board and Affiliate Universities meetings over November 6<sup>th</sup> and 7<sup>th</sup>. The Board met on Thursday afternoon with a warm welcome from Dean Karen Schuele and Dr. Brad Hull. After the meeting, students provided a tour of the JCU campus, and the group enjoyed a catered reception and dinner in the Dolan Science Center.

On Friday morning, the affiliate universities and advisory board representatives met, with a slate of interesting project updates. Mr. David Gutheil, Vice President of the Port of Cleveland, provided an overview of the container shipping initiative and the success of its first season. Mr. Gutheil talked about some of the challenges and some of the unique and interesting cargos that have used the service. Captain Dave Groh, Vice President from Van Enkevort Tug and Barge, presented on their planning to convert the *ATB Great Lakes Trader* to a dual-fuel LNG system.

Dr. Stewart led a session on LNG and the current progress on maritime conversions and the development of the supply chain. The universities' attendees provided brief updates on their on-going research and programs. Dr. Brad Hull, John Carroll University, talked about their work with the Dutch Consulate and work with students from Erasmus University in Rotterdam, The Netherlands, on developing the case model for the Cleveland container shipping. Dr. Peter Lindquist discussed their PhD program and current data project. Dr. Dan McCollum introduced himself as the new Assistant Vice Chancellor for Academic Administration at the University of Wisconsin-Green Bay.

The meetings brought together industry, agencies and academics to better understand on-going work, along with opportunities to develop working collaborations to extend business opportunities in the Great Lakes region.



(Photo credit by Ms. Lisa Heckman, JCU). From left to right: Dr. Richard Stewart, GLMRI Co-Director, Mr. Glen Nekvasil, Vice President, Lake Carriers Association, Mr. Robert Hurrell, Society of Naval Architects and President, QBM Corp., Ms. Carol Wolosz, Executive Director, GLMRI, LTC James Booth, Deputy Commander, Detroit District, US Army Corp of Engineers, Commander (Captain Select) Scott Anderson, District 9, US Coast Guard, Mr. David Wright, Chief of Operations, Detroit District, US Army Corp of Engineers, Mr. Steve Fisher, Executive Director, American Great Lakes Ports Association, Ms. Betty Sutton, Administrator, St. Lawrence Seaway Development Corporation.)

#### Mark Your Calendars—Plan to Attend

##### Transportation Research Board Washington, D.C.

January 11-15, 2015

[www.trb.org](http://www.trb.org)

##### International Shipmasters' Convention Duluth, MN

February 5-7, 2015

(contact:seaserviceoffice@gmail.com)

##### Great Lakes Waterways Conference Cleveland, OH

February 10-11, 2015

##### Great Lakes & Great Rivers Section, Society of Naval Architects and Marine Engineers Meeting, Cleveland, OH February 11-12, 2015

##### Inland Waterways Conference St. Louis, MO

March 3-5, 2015

## Of Note:

- The GLMRI new Ports Planning Benchmarking Study, written by Ms. Libby Ogard, Ms. Cassandra Roemhildt and Dr. Stewart, is available on the web page: [www.glmri.org/research](http://www.glmri.org/research)

- At the High Horse Power (HHP) Summit, America's Natural Gas Alliance (ANGA) released a report "LNG Opportunities in Marine and Rail, in the Great Lakes, Gulf of Mexico and Inland Waterways" prepared by Gladstein, Neandross and Associates, with input from Dr. Richard Stewart, GLMRI Co-Director. The link to the report is available on the GLMRI web page: <http://www.glmri.org/research/lngMisc.php>



**Pittsburgh Clean Fuels/Clean Rivers** Program hosted a **Liquefied Natural Gas (LNG) Marine Forum** on Friday, October 24, 2014, at the Community College of Allegheny County. A networking reception was held the evening prior on the educational vessel *Explorer* (photo above). The *Explorer* was built for the Pittsburgh RiverQuest program as one of the world's first "green" passenger vessels, and features a hybrid-type diesel-electric engine system designed to reduce emissions. RiverQuest is a non-profit organization set up to promote learning about the Rivers ecosystem. Ms. Wolosz presented an update of the GLMRI LNG research at the forum. Mr. Yuska from MARAD also presented at the forum, tying in MARAD's other alternative fuels' studies and demonstration projects.

Clean Fuels/Clean Rivers is an initiative to build a natural gas marine corridor that extends from the Morgantown area in West Virginia through Pennsylvania, and down the Ohio River to Huntington, West Virginia. Their ultimate goal of this effort will be to expand the potential of natural gas as a replacement for diesel fuel to the inland waterway system, which encompasses about 12,000 miles of navigable waters.

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## Key Outreach, Events, Presentations, & Meetings

- Ms Wolosz attended the High Horsepower Summit. New Orleans, LA. 6-9 Oct.
- Ms. Roemhildt and students attended the Grand Opening of the Kwik Trip CNG station. Superior, WI. 14 Oct.
- Dr. Stewart presented on the "Development of Supply Chains for LNG as a marine fuel in the Great Lakes Region" at the 3rd annual World Congress of Ocean in Dalian China. He also chaired a panel on maritime commerce. 16-18 Oct.
- Ms. Wolosz presented on the GLMRI LNG projects at the Pittsburgh Clean Cities/Clean Rivers LNG Forum. Pittsburgh, PA. 23-24 Oct.
- Ms. Wolosz attended the Ship Operations Cooperative Program, held at MITAGS. Ms. Wolosz is a member of the Operations Committee and involved in Maritime Education projects. While there, she also met with Mr. Yuska, MARAD. Linthicum, MD. 28-30 Oct.
- Dr. Amit Mokashi presented a research poster at The Qualitative Data Analysis Workshop conducted by the Grenoble Ecole de Management. Dr. Mokashi is developing a theoretical construct on the criteria for the selection of alternative fuels in transportation in the Great Lakes region. Los Angeles, CA. 31 Oct-2 Nov.
- Dr. Stewart and Ms. Wolosz, in conjunction with John Carroll University, hosted the GLMRI annual Advisory Board and Affiliate Universities meetings. University Heights, OH. 6-7 Nov.
- Ms. Wolosz participated in the Council of Great Lakes Governors and Premieres Maritime Task Force/Advisory Committee meeting. Skokie, IL. 12-13 Nov.
- Ms. Wolosz and Ms. Roemhildt met with LTC Michael Sellers, Ms. Marie Strum, Mr. Michael O'Bryan and Mr. Tony Friona to discuss GLMRI and USACE projects. Duluth, MN. 19 Nov.
- Dr. Stewart, Ms. Wolosz and Ms. Roemhildt met with Capt Montgomery and Jeanne Montgomery to discuss the planning for the International Shipmasters' Convention. Superior, WI. 20 Nov.
- Dr. Stewart and Ms. Wolosz met with MARAD to discuss the continuing LNG project. They also met Deputy Administrator Mike Rodriguez. Washington, D.C. 1 Dec.
- Dr. Stewart and Ms. Roemhildt attended the Duluth/Superior Harbor Technical Advisory Committee meeting. Duluth, MN. 3 Dec.

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