



GREAT LAKES AND GREAT RIVERS SECTION
THE SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

“Winter Meeting Announcement”

Date: February 13-14, 2013

Location: Hyatt Regency at the Arcade - Downtown Cleveland

420 Superior Avenue
Cleveland, Ohio 44114
Tel: (216) 575-1234 Fax: (216) 575-1690
Web Site: www.cleveland.hyatt.com

Reservations can be made directly with the hotel, using the contact information above. Reservations can also be made by logging on to www.greatlakeswaterwaysconference.com. Thanks to our friends who are hosting the Great Lakes Waterways Conference, the very special room rate for this fabulous Hyatt property is the following:

Single/Double Occupancy: \$131.00
Triple Occupancy: \$156.00
Quadruple Occupancy: \$181.00

Government Rate:
Single/Double: \$101.00

Be sure to make your room reservations ASAP – and mention you are attending the Society of Naval Architects meeting to receive the above rates. These rates will be held until January 25, 2013.

Our section has been focusing on natural gas as a marine fuel for the Great Lakes, Great Rivers, and the St. Lawrence Seaway for almost a year now, starting with a two-day symposium in Cleveland last year that was organized as a “tutorial” to introduce LNG and CNG to our members. This year we will again be focusing on natural gas in a two-day format, but with presentations and speakers that address specific issues such as availability, transportation, how natural gas is cleaned and processed as it flows out of the wells, the pipeline structure in the Great Lakes region, liquefaction (large scale and “micro” or small scale for bunkering operations), and similar topics.

Our prospective program outline is as follows with all events being held at the Hyatt Regency at the Arcade in downtown Cleveland:

Wednesday afternoon, February 13, 2013 - (2:00 p.m. - 4:00 p.m.)

Our keynote speakers will be Dr. Jerrold L. Hutton, Director of the Gaseous Fuels Transportation Project at Clean Fuels Ohio, and the retired Dean of the Hocking College’s Energy Institute in Logan, Ohio, along with Mr. Ralph Greenberg, a consultant with 40 years experience in natural gas and cryogenics. Their talk “From Well to Waves” will track the flow of natural gas from the wellhead through the clean up and processing stations, into pipelines or other transportation networks, and finally into either compression or liquefaction facilities as the final step in preparation for its use as a marine fuel.

**2012-2013
SECTION CHAIR**

Steve Kemp
4900 Valentine Road
Whitmore Lake, MI 48189
734-604-9547
Stephen.Kemp@Hughes.net

VICE CHAIR-GREAT LAKES
Vacant

VICE CHAIR-GREAT RIVERS
Vacant

SECRETARY-TREASURER

Richard A. Mueller
NETS Co., Inc.
P.O. Box 659
Columbia Station, OH 44028
440-236-9191
RMueller@NETS.co.us

EXECUTIVE COMMITTEE

Mark Barker
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MEETINGS CHAIR

Robert P. Hurrell
QBM Ohio, Inc.
32861 Pin Oak Parkway, Suite C
Avon Lake, OH 44012
440-933-4898
RHurrell@QBMUSA.com

MEMBERSHIP/AWARDS CHAIR

Christopher Peifer
Great Lakes Shipyard
4500 Division Ave
Cleveland, OH 44102
216-621-4854 ext 128
ccp@thegreatlakesgroup.com

PAPERS CHAIR

Steve Kemp
4900 Valentine Rd
Whitmore Lake, MI 48189
734-604-9547
Stephen.Kemp@hughes.net

PUBLICITY CHAIR

James Fish
Harbor House Publishers
11691 Hogan Road
Clinton, MI 49236-9611
517-456-4842
jfish@qlenraisin.com

**TECHNICAL & RESEARCH
REPRESENTATIVE**

Dale Miller
Interlake Steamship Company
7300 Engle Road
Middleburg Heights, OH 44130
440-260-6919
dmiller@interlake-steamship.com

STUDENT LIASON

Yin Lu (Julie) Young
UNIVERSITY OF MICHIGAN
2600 Draper Rd.
Ann Arbor, MI 48109
734-764-4509
ylyoung@umich.edu



**2011-2012
SECTION CHAIR**

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“Winter Meeting Announcement”

Wednesday afternoon, February 13, 2013 (continued)

This presentation will address the removal and disposition of the impurities and components (other than methane) found in natural gas as it comes out of the ground, such as water, ethane, heptane, butane, and propane, all of which can affect the performance of natural gas as a suitable fuel for marine power plants. Dr. Hutton's and Mr. Greenberg's talk will also focus on compression and liquefaction, infrastructure, and other issues which affect the cost of developing a reliable infrastructure to ultimately support bunkering operations in the Great Lakes region.

Wednesday evening, February 13, 2013

SNAME reception at the Hyatt Regency at the Arcade (6:00 p.m. - 8:00 p.m.)

Thursday morning, February 14, 2013

Registration and SNAME sponsored continental breakfast (7:30 a.m. - 8:15 a.m.)
Business Meeting (8:15 a.m. - 8:30 a.m.)

Presentations (8:30 a.m. - 12:30 p.m.)

Dr. Mike Parsons, retired professor emeritus of Naval Architecture and Marine Engineering at the University of Michigan, will present the final part of his study to convert the Great Lakes steamships (there are 10 of them) to LNG. “The Potential Conversion of the U.S. Great Lakes Steam Bulk Carriers to LNG Propulsion - Final Report” by Michael G. Parsons, Patrick J. O’Hern, Richard W. Harkins and Samuel J. Denomy.

Mr. Michael McLean, Director of New Business Development for Trans-Canada Pipeline Company, will present a talk on the pipeline system in the Great Lakes region (US and Canada), the present and future availability of natural gas in the region, the location of the major gas fields, flow capabilities through the lines, and processing of the gas before it enters the pipelines.

A speaker (yet to be confirmed) from GE will make a presentation on a joint venture between GE and Chesapeake Energy to build portable “micro” LNG stations that will provide LNG on a small scale to areas that do not have access to major liquefaction facilities. This concept is intriguing in that it could jump start an LNG bunkering operation in the Great Lakes or on the St. Lawrence Seaway by providing several bunkering points in strategic locations without the large investment of a major liquefaction plant.

Thursday afternoon, February 14, 2013

A buffet lunch will be provided, with a luncheon address by Peter Noble, President of SNAME (12:30 p.m. - 1:30 p.m.)

A visit to a CNG/LNG fueling station south of Cleveland will be offered to those attendees who are interested in seeing such a facility (2:00 p.m. - 5:00 p.m.)

Registration includes the Wednesday reception, Thursday continental breakfast, coffee breaks and buffet lunch. Please fill out the form below and mail with your registration.

Early Registration - Members: \$75.00, Non-members \$90.00

Late Registration - (after February 8th) Members: \$85.00, Non-members: \$100.00

Students & Retired Members - \$25.00 (Students: Financial support is available!)

Guests - \$25.00 (a prospective new member, a member's spouse or significant other)

Please make check payable to SNAME and mail to Bob Hurrell (see address below)

| | <u>MEMBER</u> | <u>MEMBER'S GUEST</u> | <u>NON-MEMBER</u> | <u>STUDENT</u> |
|----------------------|---------------|-----------------------|-----------------------|----------------|
| No. Attending: | _____ | _____ | _____ | _____ |
| | | | Total funds enclosed: | _____ |
| Member Name: | _____ | | | |
| Email address: | _____ | Company: | _____ | |
| Member's Guest Name: | _____ | | | |
| Non-Member Name: | _____ | Email address: | _____ | |
| Company: | _____ | | | |
| Mailing Address: | _____ | | | |
| Student Name: | _____ | Email address: | _____ | |
| School: | _____ | | | |

SPONSORS: *We can always use additional corporate sponsors for our meetings, so please let any member of the Executive Committee know if you would like to help sponsor this gathering of the SNAME Section; or send an e-mail to RHurrell@QBMUSA.com.*

NOTE: SNAME GL/GR would like to continue to send out future announcements via email. Please ensure your email address is included for future announcements.

Mail completed form to: **Bob Hurrell**
QBM Ohio, Inc.
32861 Pin Oak Parkway - Suite C
Avon Lake, Ohio 44012-3502

Or send via FAX to: **(440) 933-4897**

Or send via e-mail to: **RHurrell@QBMUSA.com**