



The Institute of Marine Engineering, Science & Technology



Eastern USA Branch

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December 10, 2018

MEETING NOTICE

The next technical meeting of the IMarEST Eastern USA Branch will be a joint session with the Society of Naval Architects and Marine Engineers (SNAME), the Society of Marine Port Engineers (SMPE), and the American Society of Naval Engineers (ASNE). This meeting is being hosted by SMPE.

Date: Thursday, December 18, 2018
***** PLEASE NOTE DATE CHANGE *****

Location: Iberia Peninsula Restaurant
63-69 Ferry Street, Newark, NJ 07105

Topic: Replacing Fossil Fuels with Ocean Wave Power

Presenters: Hendrik "Rik" van Hemmen and Michael Raftery
Martin, Ottoway, van Hemmen and Dolan, Inc.

<u>Time:</u>	Social Hour	– 5:00 PM	<u>Cost:</u>	Members	– \$40.00
	Dinner	– 6:00 PM		Non-Members	– \$55.00
	Technical Session	– 7:00 PM		Student Members	– \$15.00
				Student Non-Members	– \$25.00

Additional details about this presentation and future meetings can be found on the following pages. Please also see the Eastern USA Branch's website for details on viewing a live webcast of this meeting and recordings of past meetings.

Please E-mail your plans to attend to Bradley Golden, Chairman & Honorary Secretary (goldenmarineandoffshore@gmail.com) by Monday, December 17, 2018. We encourage inviting prospective new members interested in joining the Institute to attend a technical meeting as a guest of the Eastern USA Branch of the IMarEST.

Best regards,

Bradley D.M. Golden, Chairman & Honorary Secretary

Vice Chair – Technical
Paul Hormann
pmhormann@gmail.com

Honorary Secretary Emeritus
Robert J. Bazzini



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TECHNICAL PRESENTATION INFORMATION

Date: Thursday, December 18, 2018
***** PLEASE NOTE DATE CHANGE *****

Location: Iberia Peninsula Restaurant
63-69 Ferry Street, Newark, NJ 07105

Topic: Replacing Fossil Fuels with Ocean Wave Power

Presenters: **Hendrik "Rik" van Hemmen, Martin, Ottaway, van Hemmen and Dolan, Inc.**
Rik is the President of Martin & Ottaway, Inc. The firm is well known for providing technical, operational and financial consulting services the maritime industry at large. Rik has a degree in Aerospace and Ocean Engineering, is a licensed Professional Engineer, a SNAME Fellow and a Diplomate in Forensic Engineering. After being employed in defense contracting, classification, and yacht design, he has worked for Martin & Ottaway since 1988.

Michael Raftery, Martin, Ottaway, van Hemmen and Dolan, Inc.
Michael is an Oceanographer, Ocean Engineer and marine consultant, with Martin, Ottaway, van Hemmen and Dolan, Inc. He is experienced in the wave energy conversion industry, mechanical and electrical design, naval architecture, ocean engineering, systems engineering, project management, spacecraft operations, physical oceanography, underwater construction, dive operations and training, patent processes, and alternative and sustainable energy production. Michael has a Bachelor's degree in Oceanography and a Master's degree in Ocean Engineering.

Abstract: Wave energy converter (WEC) systems have not yet made it to the stage of development of wind and solar systems, but wave energy is a concentrated form of wind energy covering over 70% of the Earth and presents a fascinating opportunity for the future of renewable energy.
Martin & Ottaway is developing a novel approach to commercially harvest wave energy called SurfWEC. Ocean wave energy conversion involves the simple relationship between mass and velocity. The more water mass a WEC displaces per second, the more power it puts into the energy storage and conversion subsystems. The term "marine hydrokinetic" is often used to describe these systems and abbreviated "MHK" systems. Three types of MHK systems convert power from either surface wave, tidal, or ocean current motions to useful forms of power or energy such as electricity or charged batteries or pressurized fluids respectively. The SurfWEC system converts the power from ocean surface waves into grid quality electricity.

This presentation is expected to be accredited for 1 PDH. Please contact SNAME's Professional Engineer Continuing Education Program Evaluator, Professor Alan Rowen (alanrowen@gmail.com), for more details.



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NEW YORK AREA JOINT SOCIETIES' MEETING SCHEDULE, 2018-2019

Date	Day	Event	Host	Location	Presentation
10 Sep 2018	Mon	SMPE Golf Outing	SMPE	Forest Hill Field Club Bloomfield, NJ	
27 Sep 2018	Thur	SNAME Meeting Past Chairman's Night	SNAME	India House 1 Hanover Sq.	What Might a 21st Century Transition in Maritime Energy and Technology look like? / James J. Corbett
18 Oct 2018	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	India House 1 Hanover Sq.	Building a Ferry Based Transit System from the Ground Up / Ethan Wiseman
24-27 Oct 2018	Wed- Sat	SNAME Maritime Convention	SNAME	Providence, RI	Papers at Meeting
15 Nov 2018	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	IMarEST	India House 1 Hanover Sq.	Marine Highway: Can We Make it Work? / Bethann Rooney
18 Dec 2018	Tues	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SMPE	Iberia Peninsula Newark, NJ	Replacing Fossil Fuels with Ocean Wave Power / Rik van Hemmen & Michael Raftery
17 Jan 2019	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (SMPE Elections)	SMPE	Iberia Peninsula Newark, NJ	TBA
(TBA) Feb 2019	Sun	SMPE Valentine's Day/ Family Day	SMPE	The Graycliff Moonachie, NJ	
13 Feb 2019	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	India House 1 Hanover Sq.	TBA
21 Mar 2019	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (SNAME Elections)	IMarEST	India House 1 Hanover Sq.	TBA
11 Apr 2019	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (Student Paper Night)	SNAME	Riccardo's by the Bridge Astoria, NY	Student Papers
2 May 2019	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	ASNE	India House 1 Hanover Sq.	TBA
6 Jun 2019	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	India House 1 Hanover Sq.	TBA
(TBA) Jun 2019	Mon- Wed	TSS/ASNE Day 2019	ASNE	Washington DC	Papers at Meeting