



The Institute of Marine Engineering, Science & Technology



Eastern USA Branch

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May 29, 2019

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 SNAME.

Date: Thursday, June 6, 2019

Location: India House
1 Hanover Square
New York, NY 10004

Topic: Forecasting and Warning for Extreme Ocean Storms

Presenter: Joseph M. Sienkiewicz, NOAA Ocean Prediction Center

<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, June 3, 2019. 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, June 6, 2019

Location: India House
1 Hanover Square
New York, NY 10004

Topic: Forecasting and Warning for Extreme Ocean Storms

Presenter: **Joseph M. Sienkiewicz, NOAA Ocean Prediction Center**

Mr. Joseph Sienkiewicz is the Chief of the Ocean Applications Branch of the U.S. National Oceanic and Atmospheric Administration's (NOAA) Ocean Prediction Center (OPC). The OPC has international responsibility for weather warnings and forecasts for large portions of the North Atlantic and North Pacific. Joe has worked in operational marine meteorology with NOAA for 30 years. His professional interests include the use of satellite derived information to improve marine weather forecasts, explosively developing storms, and the application of weather information in marine operations. He serves on an international training team with NOAA and European scientists to train marine meteorologists from across the globe on the application of satellite sensed ocean winds and waves to operational marine forecasting. Mr. Sienkiewicz is a graduate of the State University of New York Maritime College (B.S.) and University of Washington (M.S.). He held a USCG Unlimited Third Mate License and worked 5 years as mate and relief captain on tugboats based in New York Harbor. Joe is a lifelong sailor and also enjoys fly fishing. He, and his wife Carolyn, live near the western Maryland shore of Chesapeake Bay.

Abstract: The United States, as a signator of the Safety of Life at Sea (SOLAS) Convention has given the responsibility to issue weather warnings and forecasts for high winds and seas over ocean areas to the Department of Commerce (DOC). Under the DOC, the National Oceanic and Atmospheric Administration (NOAA) Ocean Prediction Center (OPC) partially fulfills this international commitment by providing weather warning and forecast services for the western North Atlantic and central and eastern North Pacific oceans. The National Hurricane Center and Honolulu Forecast Office serve similar roles for the tropical ocean areas of the Atlantic and Pacific.

The advent of satellite radar scatterometers and altimeters, that can infer the near surface wind speed and direction and sea surface height and wave height, has allowed marine weather forecasters the ability to routinely see the structure and intensity of winds and waves inside of non-tropical (called extra-tropical) ocean storms. The forecast staff at the OPC issue warnings for on average 80 to 100 extra-tropical storms of hurricane force intensity, annually, with peak activity during the winter months. This talk will discuss the detection capability of satellite radar scatterometers and altimeters, the wind field evolution of extra-tropical ocean storms, the potential hazard to shipping,



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extreme wave generation, and the challenges forecasting severe and extreme weather over the oceans.

This presentation is expected to be accredited for 1 PDH. Please contact SNAME's Professional Engineer Continuing Education Program Evaluator, David Chapman (davechapman50@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
16 Jan 2019	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (SMPE Elections)	SMPE	Iberia Peninsula Newark, NJ	Vortex Propulsor Project / Capt. Richard Hayman
13 Feb 2019	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	India House 1 Hanover Sq.	The Port Authority of NY and NJ Capital Plan: Engineering Details and Challenges / James Starace
21 Mar 2019	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (SNAME Elections)	IMarEST	India House 1 Hanover Sq.	Superyacht Building and Management - Impacts, Implications, and Considerations of Newly Adopted Code / John Walker
2 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.	Classification and Ship Safety of Military Ships and the ASNE Certificate of Naval Engineering / Rich Delpizzo
6 Jun 2019	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	India House 1 Hanover Sq.	Forecasting and Warning for Extreme Ocean Storms / Joseph M. Sienkiewicz
18-20 Jun 2019	Tue-Thur	TSS/ASNE Day 2019	ASNE	Washington DC	Papers at Meeting