



The Institute of Marine Engineering, Science & Technology



Eastern USA Branch

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March 14, 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 the IMarEST.

Date: Tuesday, March 20, 2018

Location: Special Events Room, Vander Clute Hall
SUNY Maritime College
6 Pennyfield Avenue
Bronx, NY 10465

Topic: Opportunities for Marine Sequestration of Carbon Dioxide

Presenter: Christopher D. Barry, Ocean Renewable Energy Technical and Research Panel, SNAME

<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, March 19, 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: Tuesday, March 20, 2018

Location: Special Events Room, Vander Clute Hall
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Topic: Opportunities for Marine Sequestration of Carbon Dioxide

Presenter: **Christopher D. Barry, Ocean Renewable Energy Technical and Research Panel, SNAME**

Mr. Barry is a 1974 graduate of UC Berkeley in Mechanical Engineering/Naval Architecture and a licensed professional engineer in Maryland, Washington, and California. His previous employers include Morris Guralnick Associates, Earl and Wright Consulting Engineers, John Brown Offshore, FMC Ground Systems Division, Elliott Bay Design Group, and Munson Manufacturing in San Francisco, Seattle, London, and San Diego. He has worked on projects involving amphibious vehicles, commercial cargo vessels, ferries, fishing vessels, tankers, Naval auxiliaries, Coast Guard boats and cutters, offshore oil platforms and drilling vessels, and ocean alternative energy systems. He also worked on the Ocean Thermal Energy Conversion Early Ocean Test Platform 1 MWe, which sparked his long interest in alternative ocean energy. He holds two patents in high-speed hydrofoil craft design, a patent pending in wave energy conversion, is a co-author of the 1997 SNAME Hann Award paper in ship production and a Fellow of SNAME. He is the chair of the SNAME Small Craft Technical and Research Committee and co-chair of Technical and Research Panel EC-12 on Ocean Renewable Energy and would be pleased to hear from volunteers interested in either activity. He is now a naval architect in the Naval Architecture Section of the Coast Guard Surface Forces Logistics Center, in Baltimore, concentrating on boats and small cutters.

Abstract: Release of carbon dioxide (and other gases) into the atmosphere is becoming critical to climate change. Recent assessments not only have called for decarbonization of energy but for negative emissions; removals of carbon dioxide now in the atmosphere, in order to keep global warming to a sustainable level. The marine community can offer a number of possible options using existing ocean engineering technology to sequester carbon safely in the ocean. The ocean is currently by far the major sink for carbon dioxide emissions and especially enhancing these existing processes provides opportunities for enhanced sequestration. These opportunities not only can slow climate change but may provide new markets for various sectors of the industry.

The paper presents background on the current surplus between emissions and ocean take up and discusses a range of options for marine sequestration.



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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, 2017-2018

Date	Day	Event	Host	Location	Presentation
18 Sep 2017	Mon	SMPE Golf Outing	SMPE	Forest Hill Field Club Bloomfield, NJ	
28 Sep 2017	Thur	SNAME Meeting Past Chairman's Night	SNAME	SUNY Global Center 116 E. 55 th St	SNAME OpenCalc: History, Status, Future/ Steven M. Hollister
18 Oct 2017	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	O'Reilly's 21 W. 35 th St	Nekton Deep Ocean Exploration 2018-21 Indian Ocean Mission/ Oliver Steeds & Alex Rogers
24-27 Oct 2017	Tue- Fri	SNAME Maritime Convention	SNAME	Houston, TX	Papers at Meeting
15 Nov 2017	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	IMarEST	India House 1 Hanover Sq.	The Shipboard Environment Aboard the International Space Station/Capt. William Shepherd
14 Dec 2017	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SMPE	Iberia Peninsula Newark, NJ	Marine Growth and Corrosion Prevention in Cooling Systems/ Cassie Corbett & Sam Ellameh
17 Jan 2018	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (SMPE Elections)	SMPE	Iberia Peninsula Newark, NJ	Cyber Risk Management for the Maritime Sector/ HudsonAnalytix-Cyber
11 Feb 2018	Sun	SMPE Valentine's Day/ Family Day	SMPE	The Graycliff Moonachie, NJ	
15 Feb 2018	Thur	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	India House 1 Hanover Sq.	The Ecochlor Ballast Water Treatment System/Pete Thompson
20 Mar 2018	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (SNAME Elections)	IMarEST	Special Events Room SUNY Maritime Bronx, NY	Carbon Sequestration Facilities/ Christopher Barry
18 Apr 2018	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (Student Paper Night)	SNAME	Riccardo's by the Bridge Astoria, NY	Student Papers
9 May 2018	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	ASNE	India House 1 Hanover Sq.	Engineering Ethics/ Rik van Hemmen
13 Jun 2018	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	(TBD)	(TBD)
18-20 Jun 2018	Mon- Wed	TSS/ASNE Day 2018	ASNE	Washington DC	Papers at Meeting