



The Institute of Marine Engineering, Science & Technology



Eastern USA Branch

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November 8, 2016

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: Tuesday, November 15, 2016

Location: SUNY Auditorium
The State University of New York
116 East 55th Street, New York, NY 10022
(55th Street between Lexington & Park Avenues)

Topic: Challenges and Achievements of CFD (Computational Fluid Dynamics) for Hydrodynamic Applications

Presenter: Alain Demeulenaere, PhD

<u>Time:</u>	Social Hour & Hot – 5:30 PM	<u>Cost:</u>	Members – \$40.00
	Buffet Bar		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 E-mail your plans to attend to Bradley Golden, Chairman & Honorary Secretary (bradley.golden@tritec-marine.com) by Monday, November 14, 2016. 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
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Honorary Secretary Emeritus
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TECHNICAL PRESENTATION INFORMATION

Date: Tuesday, November 15, 2016

Location: SUNY Auditorium
The State University of New York
116 East 55th Street, New York, NY 10022
(55th Street between Lexington & Park Avenues)

Topic: Challenges and Achievements of CFD (Computational Fluid Dynamics) for Hydrodynamic Applications

Presenter: **Alain Demeulenaere, PhD**

Dr. Alain Demeulenaere has been working for NUMECA International since 1997, and he's the Managing Director of NUMECA-USA since 2005. NUMECA International, based in Brussels, has been developing CFD software for the industry for 20 years. They are known for being very research-oriented, led by their President Charles Hirsch, who is very known in the field and published successful educational books on CFD.

After a PhD at the von Karman Institute (Brussels), Alain has been one of the major developers of the NUMECA software, and then moved to USA to develop NUMECA's business and awareness across North America.

Abstract: Despite the tremendous increase of computational resources that are now available, CFD (Computational Fluid Dynamics) is far from being able to undoubtedly resolve fluid flow problems with guaranteed accuracy. Marine applications are particularly challenging, raising difficulties in meshing, solving turbulence, resolving free surfaces, wave-hull interactions, and modeling fluid-structure interaction.

The presentation will show the current state of CFD developments within the marine industry, as well as applications results on various test cases coming from the ship design industry and from America's Cup teams, who are making intensive use of CFD in the design of their hulls and foils.

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, 2016-2017

Date	Day	Event	Host	Location	Presentation
29 Sep 2016	Thursday	SNAME Meeting Past Chairmen's Night	SNAME	SUNY Audit 116 E. 55 th St	CFD Paper/Timothy Yen PhD, CD-Adapco
26 Oct 2016	Wednesday	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	SUNY Audit 116 E. 55 th St	Innovation Adopters' Selection Priorities – The Case of Alternative Fuels/Amit Mokashi
2-5 Nov 2016	Tuesday- Saturday	SNAME Maritime Convention Bellevue Washington	SNAME	Bellevue WA	Papers at Meeting
15 Nov 2016	Wednesday	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	SUNY Audit 116 E. 55 th St	Challenges and Achievements of CFD (Computational Fluid Dynamics) for Hydrodynamic Applications/ Alain Demeulenaere
15 Dec 2016	Thursday	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SMPE	Peninsula Newark	Technical Considerations for Oil Content Meters
(TBD) Jan 17	(TBD)	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SMPE	Peninsula Newark	TBD
(TBD) Feb 17		SMPE Family Day	SMPE	Landmark	TBD
(TBD)	(TBD)	ASNE Day 2016	ASNE	Washington, DC	Papers at Meeting
9 Mar 2017	Wednesday	SNAME/IMarEST/SMPE/ ASNE Joint Meeting SNAME Elections	IMarEST	SUNY Audit 116 E. 55 th St	TBD
12 Apr 2017	Wednesday	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (Student Paper Night)	SNAME	SUNY Audit 116 E. 55 th St	Student Papers
17 May 2017	Wednesday	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	ASNE	SUNY Audit 116 E. 55 th St	TBD
7 Jun 2017	Wednesday	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	SUNY Audit 116 E. 55 th St	TBD