



The Institute of Marine Engineering, Science & Technology



Eastern USA Branch

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January 20, 2021

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: Wednesday, January 20, 2021

Location: This month's meeting will be an online-only webcast. To register, please visit <https://zoom.us/meeting/register/tJYtf-uurz8tH9CRf8qS3AxbJ69zv2-1qLIG>. Once registered, you'll receive a confirmation with a link to join the event.

Topic: Sandwich Plate Systems (SPS) Technology

Presenter: Ian Nash, Marine & Offshore Business Manager, SPS Technology

Time: 7:00 PM

Cost: Free of charge

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 register for this meeting using the link above. The meeting is limited to the first 300 persons, so please register early. If you have any questions, please contact Bradley Golden, Chairman & Honorary Secretary (goldenmarineandoffshore@gmail.com).

Best regards,

Bradley D.M. Golden, Chairman & Honorary Secretary

Vice Chair – Technical
Paul Hormann
pmhormann@gmail.com

Honorary Chairman Emeritus
Prof. Alan L. Rowen

Honorary Secretary Emeritus
Robert J. Bazzini



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TECHNICAL PRESENTATION INFORMATION

Date: Wednesday, January 20, 2021

Location: This month's meeting will be an online-only webcast. To register, please visit <https://zoom.us/meeting/register/tJYtf-uurz8tH9CRf8qS3AxhJ69zv2-1qLIG>. Once registered, you'll receive a confirmation with a link to join the event.

Topic: Sandwich Plate Systems (SPS) Technology

Presenter: Ian Nash
Marine & Offshore Business Manager, SPS Technology

As Marine & Offshore Business Manager for SPS Technology, Ian works with a wide range of international clients advising on permanent, class approved composite structural steel repairs.

With the SPS Technology team, Ian is on a quest to ensure composite structural repairs are seen as a standard, proven and approved repair option. Ian has worked on projects with most of the oil majors and taken part in a number of maritime research and development projects.

After studying Engineering at A level, Ian joined the Royal Navy. Ian qualified as Lead Marine Engineer on Destroyers and studied Marine Engineering at Portsmouth University before beginning his 13 years (and counting) journey with SPS Technology.

Abstract: The use of structural composites to repair and strengthen vessels and offshore assets is increasingly common. One such composite is SPS which comprises two metal plates bonded with an elastomer core delivering high strength and low weight. The use of such composites is a safe, fast, low risk, simple, proven, economic and Class approved permanent method of repair and strengthening that can be completed in dry-dock, afloat or in-service. This composite eliminates the need to remove original steel as the existing structure forms one element of the new composite. SPS has been used in the maritime and offshore industries since 1999 for a diverse and innovative range of repair projects.

The response to the offshore industry's need of a 'no hot work' structural steel repair method has led to a number of products coming to market. A no hot work SPS installation method has been available and used since 2003.



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SPS is a class approved material. ABS's Guidance Notes on **COMPOSITE REPAIRS OF STEEL STRUCTURES AND PIPING** which was published in July 2019 join previously published Class Guidelines from DNV-GL Class Guideline - **Steel Sandwich Panel Construction** and Lloyd's Register **Rules for the Application of Sandwich Panel Construction to Ship Structure**. The full Rulesets from Lloyd's Register were issued on 1 July 2019 following the Provisional Rules issue in 2006.

The use of composite SPS plates for new components

In using structural composite panels, naval architects, vessel owners and operators can design structures to take advantage of enhanced impact protection, greater resistance to blast and ballistics, built-in fire protection and improved performance against vibration and corrosion compared to traditional stiffened steel. SPS panels replace stiffened steel eliminating all secondary stiffeners and reducing corrosion prone details and drastically simplifying structures

This presentation is anticipated to be accredited for 1 PDH. To obtain PDH credit, participants must attend the meeting and submit a completed Learning Assessment and Application Form to the designated representative upon conclusion of the meeting.



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NEW YORK AREA JOINT SOCIETIES' MEETING SCHEDULE, 2020-2021

Date	Day	Event	Host	Location	Presentation
23 Sep 2020	Wed	SNAME Meeting Past Chairman's Night	SNAME	Online	Reducing Heat Exchanger Fouling and Metallic Corrosion with Vapor Infusion Technologies / Michael Radicone
29 Sep- 2 Oct 2020	Tue- Fri	SNAME Maritime Convention	SNAME	Online	Papers at Meeting
21 Oct 2020	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	Online	Practical Application of Rules, Codes, and Standards to Design / Peter Wallace
16-17 Nov 2020	Mon- Tue	TSS/ASNE Day 2020 (Part 2)	ASNE	Washington DC	Papers at Meeting
18 Nov 2020	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	IMarEST	Online	Offshore Support Vessels – Ship Handling Skills in the Context of Dynamic Positioning Failures / Ivan Moriarity
16 Dec 2020	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SMPE	Online	No meeting
20 Jan 2021	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SMPE	Online	Sandwich Plate System (STS) Technology / Ian Nash
26-28 Jan 2021	Tue- Thur	TSS/ASNE Day 2021	ASNE	Washington DC	Papers at Meeting
20 Feb 2021	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (SMPE Elections)	SNAME	Online	TBA
17 Mar 2021	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	IMarEST	Online	TBA
21 Apr 2021	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting (Student Papers Night and SNAME Elections)	SNAME	Online	Student Papers
19 May 2021	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	ASNE and IMarEST	Online	TBA
16 Jun 2021	Wed	SNAME/IMarEST/SMPE/ ASNE Joint Meeting	SNAME	Online	TBA