



SCHIFFBAUTECHNISCHE GESELLSCHAFT e.V.

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STG Symposium

"Selected Topics on Strength, Vibrations and Noise"

on March 13th, 2024

in Hamburg

Technical committees: „Construction and Strength“ and „Vibrations and Noise“

Heads of the technical committees: Prof. D.Sc. Dipl.-Ing. S. Ehlers, Dipl.-Ing. N. Reichstein

Location: Hamburg University of Technology (Technische Universität Hamburg), Dietze-Hörsaal,
Building H, Room H0.16, Am Schwarzenberg-Campus 5, 21073 Hamburg

Language: English

Please register for the conference by March 8th, 2024 under www.stg-online.de

(If you have no access to the online address please contact STG under the above mentioned communication data.)

Participation fees (including lunch and drinks):

Non Member	Euro 250,-
Member	Euro 150,-
Pensioner	Euro 75,-
Student Non Member	Euro 60,-
Student Member	Euro 20,-

Please transfer the fee to the following account of the Schiffbautechnische Gesellschaft e.V., Hamburg:

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When making the transfer, please state the name of the participant and the date of the event! If registrations are cancelled after March 8th, 2024, the full conference fee must be paid. Video and audio recordings are not permitted during the event.

SCHIFFBAUTECHNISCHE GESELLSCHAFT e.V.

Prof. Dr.-Ing. Stefan Krüger
Chairman of the Association

Dr.-Ing. Hans Jakob Gättjens
Managing Director

PROGRAM

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08:30	Registration
8:50 – 9:00	Welcome by Sören Ehlers and Nils Reichstein
9:00 – 9:30	<i>Session 1 – Strength topics</i> Structural optimization of a large cruise ship section Carl Rupp, Technische Universität Hamburg
9:30 – 10:00	Strength Aspects of Wind Assisted Propulsion Systems Marcus Ihms, DNV, Hamburg
10:00 – 10:30	Evaluating a Simplified Beam Model for Predicting Ship Vibrations Gunnar Kistner, Universität Rostock
10:30 – 11:00	Coffee break
11:00 – 11:30	<i>Session 2 – Noise and Vibration – emission reduction and alternative fuels</i> Scrubbers, LNG tanks, and Co. - New vibration challenges driven by emission reduction Sebastian Knees, DNV, Hamburg
11:30 – 12:00	Noise and vibration characteristics of methanol engines in the maritime sector Veerappan Saravanan, Hochschule Wismar
12:00 – 12:30	The Influence of Propeller Retrofits in the Torsional Vibration Behaviour of Shafting in Marine Vessels Kevin Lal, Mecklenburger Metallguss GmbH, Waren
12:30 – 13:30	Lunch
13:30 – 14:00	<i>Session 3 – Noise and Vibration – new developments</i> New Design of Highly Flexible Misalignment Couplings with Improved Structure-Borne Noise Attenuating Characteristics for High Demanding Markets Tebong Andogho, VULKAN Deutschland, Herne
14:00 – 14:30	Accelerating product development through the targeted use of simulation for complex acoustic problems in the powertrain Nora Yazdandoost, Geislinger GmbH, Salzburg
14:30 – 15:00	Experimental parameters influencing the cavitation noise of an oscillating NACA0015 hydrofoil Leonie Föhring, Fachhochschule Kiel
15:00 – 15:30	Coffee break
15:30 – 16:00	<i>Session 4 – Noise and Vibration – measurement and monitoring</i> Underwater noise radiation of fast craft: Comparison of different propulsion concepts and analysis of dominant mechanisms for noise radiation Max Schuster, DW-ShipConsult GmbH, Schwentinental
16:00 – 16:30	Energy efficiency and URN of a ship Online monitoring on board Thierry Maquil, Müller-BBM Industry Solutions GmbH, Hamburg
16:30	Closing words by Nils Reichstein and Sören Ehlers

Laboratory tours are optional following the closing words!