



SCHIFFBAUTECHNISCHE GESELLSCHAFT e.V.

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STG Symposium

"Selected Topics on Strength, Vibrations and Noise"

on April 21st, 2026

in Bremen

Technical committees: „Construction and Strength“ and „Vibrations and Noise“
Heads of the technical committees: Dr.-Ing. F. von Bock und Polach, Dipl.-Ing. N. Reichstein

Location: Hochschule Bremen, Audimax, Flughafendamm 40, 28199 Bremen (Airportstadt)

Conference language: English

Please register for the conference by April 15th, 2026 under www.stg-online.de

Participation fees (including lunch and drinks):

Non Member	Euro 280,-
Member	Euro 180,-
Pensioner	Euro 90,-
Student Non Member	Euro 60,-
Student Member	Euro 20,-

If registrations are cancelled after April 15th, 2026, the full conference fee must be paid. Video and audio recordings are not permitted during the event.

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

Dr.-Ing. Hans Jakob Gätjens
Managing Director



PROGRAM

STG Symposium
"Selected Topics on Strength, Vibrations and Noise"
on April 21st, 2026 in Bremen

- 08:30 Registration
- 8:50 - 9:00 **Welcome by Franz von Bock und Polach and Nils Reichstein**
- Session 1 – Strength topics**
- 9:00 - 9:30 **The Strength of Sea-Containers**
Mahdi Ghesmi, Lloyds Register; Daniel Abt, DNV;
Christian Woitzik, Franz von Bock und Polach, Hamburg University of Technology
- 9:30 - 10:00 **Experimental research on the data quality of ageing acceleration sensors and strain gauges in the context of condition monitoring in maritime environments**
Eike Hohmann, DLR Institute of maritime technologies and propulsion systems
- 10:00 - 10:30 **Investigation of tank structures under shock loading**
Hauke Herrnring, TKMS GmbH
- 10:30 - 11:00 **Intelligent Bonds for Ship Windows**
Franz von Bock und Polach, Jan-Hendrik Grimm, Hamburg University of Technology
- 11:00 - 11:30 **Coffee break**
- Session 2 – Noise and Vibration – Condition Monitoring**
- 11:30 - 12:00 **Developing a Vibration Analysis System for Optimised Pump Performance in Marine Anti-Heeling Systems**
Anthony Bond, Johanna Daniel, Hoppe Marine GmbH
- 12:00 - 12:30 **Preventive Maintenance of Centrifuges Using Vibration Analysis**
Darius Brackmann, Alfa Laval
- 12:30 - 13:15 **Lunch**
- Session 3 – Noise and Vibration – new developments**
- 13:15 - 13:45 **Possibilities for Assessment of Underwater Radiated Noise from Ships**
Björn Carstensen, Lars Koopmann, Niklas Kühl, HSVA
- 13:45 - 14:15 **Coherent signal correction for under water radiated noise measurements**
Reinhard Schulze, SVA Potsdam
- 14:15 - 14:45 **Vibroacoustic metamaterials (VAMM) and acoustic black holes (ABH)
New innovative possibilities for the reduction of sound and vibrations**
Michael Matthias, Heiko Atzrodt, Sebastian Rieß, Vincent Rachor, Fraunhofer LBF
- 14:45 - 15:15 **Coffee break**
- Session 4 – Noise and Vibration – measurement and monitoring**
- 15:15 - 15:45 **Feasibility of Active Noise Control on Marine Gensets: Concept Testing on Everllence 175D**
Ricardo Hermann, Everllence SE; Roger Wimmel, ERAS GmbH
- 15:45 - 16:15 **Online URN monitoring onboard for propulsion system and power supply**
Thierry Maquil, Carsten Zerbs, Andreas Müller, Vincent Wasserfuhr, Müller-BBM
Jan Abshagen, WTD 71
- 16:15 Closing words by Franz von Bock und Polach and Nils Reichstein