



Technical Webinar

Co-Organised by

The Society of Naval Architects and Marine Engineers Singapore

The Joint Branch of the RINA and IMarEST (Singapore)

Singapore Shipping Association

Finite Element Simulation and Verification According to Standards for Ship and Offshore Structures

by



Mr Oleg Ishchuk

Chief Operating Officer

SDC Verifier

Date : 22nd April 2021

Time : Webinar will begin at 5:30 pm and ends at 7.00 pm

To register your attendance, please click the web-link below:

https://zoom.us/meeting/register/tJltceupqi0jGdlSzQfxpBlrFeV_atVu6MwS

Please note this webinar is only open to first 100 participants who had registered and entered the meeting on first-come-first-serve basis. For benefit of those who had pre-registered, please do not share the access link further after registration.



Abstract

Finite element simulation (FEA) is increasingly used in the Offshore, Oil & Gas, Shipbuilding and other industries and is becoming an integrated part of the global design process for many companies. It is very important for safety reasons, certification, design updates and modification, maintenance and inspections.

Finite element simulations and verification according to the standards are often used to: i) ensure the structural integrity of the structure, ii) understand the behaviour of the model under different loading conditions and iii) prepare a list of important nodes/locations for the inspection. FEA helps in significant cost reduction when the goal of the simulation is to have the most efficient possible design. More importantly, finite element method is a useful and effective tool to check if the design is prepared according to the rules and regulations of industry standards.

Join this webinar to learn more about how to:

- Set up the basis of calculation for the Finite Element Analysis;
- Combine the loads and boundary conditions;
- Quickly check Stresses, Displacements and Forces in the model;
- Detect the Structural members in your FEA model;
- Perform the verification against ABS, DNV, AISC and other rules;
- Prepare a report with the results of simulation.

About the Speaker

Mr Oleg Ishchuk is the Chief Operating Officer at SDC Verifier, with more than 10 years of experience in mechanical engineering: structural verification of Ship-to-Shore cranes, lifting appliances, floating structures, vessels, and other equipment. He is also an expert in structural verification according to multiple industry rules in Oil and Gas, Offshore and Maritime, Civil, Heavy Lifting, Machinery, and other industries, focusing on Fatigue, Plate Buckling, and Member checks.



Instructions to join the webinar using Zoom

1. Download Zoom software before joining the webinar session at <https://zoom.us/download>
2. You may join the webinar by clicking onto the link provided in the email after registration.
3. Alternatively, you may join the webinar by clicking <https://zoom.us/join> and key in the Meeting ID and Password provided in the email after registration.
4. Video and audio function will be disabled during the session for all participants (except host and presenter).
5. For attendance recording purposes, please provide your name, company and membership (e.g. SNAMES, Joint Branch, SSA or non-member) in the chat window upon joining the webinar session.
6. During the Q&A, please key in your questions into the chat window and it will be selected by the host and referred to the presenter.
7. Please provide your feedback by accessing the link provided after the Q&A session.