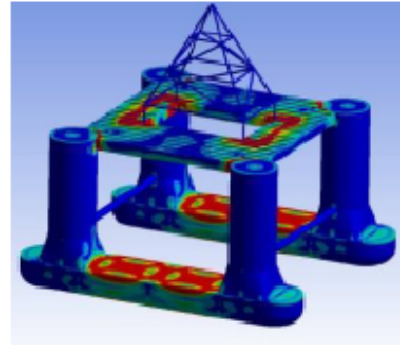




ANSYS Simulation for Marine Industry

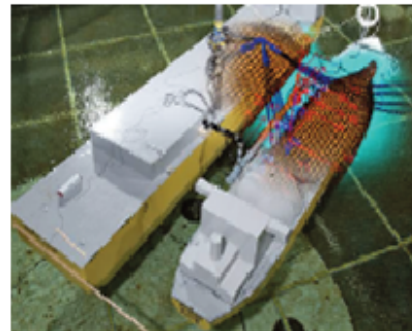
Introduction

The marine industry is challenged to develop and produce new designs at an accelerating pace. To remain competitive, quality must be improved and post-production modifications must be minimized. ANSYS simulation solutions can overcome these challenges and achieve Class standard compliance. Failure prediction and prevention can be done for safety.



Objectives

In this seminar, we will present how ANSYS simulation tools provide a best-in-class solution to achieve Class standard as well as address safety concerns. Structural analysis for floating structure using AQWA and hydrodynamic simulation of container ship will be presented. Prediction of wave motion, heights and pressure on hull can be simulated. Fatigue tools for Class standard and generic modelling clean up using SpaceClaim will also be introduced.



Benefits

- ANSYS tools enable rapid assessment of many design alternatives, in particular early in a project, significantly reducing overall project costs and timescales.
- Receive updates on how recent developments in ANSYS software delivers improved virtual prototyping for the investigation of hydrodynamic effects of ocean loads on floating structures as well as renewable energy systems.

Who should attend?

Directors, managers, engineers and researchers in marine industry.

What customers say about our solutions

"Simulation allows us to design and optimise our subsea products, and to assess their performance within challenging timeframes. This would otherwise be difficult when considering physical testing."

Melvin Leong, FMC Technologies Singapore Pte Ltd

"SeaTech has been using ANSYS for 8 years, for analysis ranging from static structural to modal/time domain transient, and ANSYS has always been an effective and trustworthy tool. With the improved Workbench platform, ANSYS has become more user-friendly, allowing easier operations and finer results simulations. This year, we purchased the AQWA module, which enables us to carry out hydrodynamic analysis. By using ANSYS, SeaTech has been able to offer its clients a wide range of engineering services. Efficiency, versatility and reliability are the reasons we have chosen ANSYS and will keep using it for a long time."

Prabjot Singh, SeaTech Solutions International (S) Pte Ltd

"Simulation results assist us in the process of developing and evaluating design concepts as well as contributing to the evidence that a proposed design meets various rating criteria. Moreover, we use the software to produce visualisation for marketing purposes to enhance our communication with prospective clients. I don't see our use of this tool letting up any time soon."

John Costello, LEED A P, Mechanical, Dunham Associates

Presenter Profile



Hari Hara Sudhan is currently the Applications Engineer for CAD-IT Consultants and part of a technical team that consists of other PhDs consultants that support customers in various discipline domains. He completed his Master of Science in Mechanical in National University of Singapore with his coursework focused on Design and Manufacturing. He specialized in structural simulation, currently providing consulting and post-sales technical support on ANSYS Workbench, Mechanical and nCode fatigue tool.

Event Information

Date : 22 April 2016
Time : 2:00 pm - 5:00 pm
Venue : CAD-IT Consultants (Asia) Pte Ltd

159 Sin Ming Road, #03-05 Amtech Building, Singapore 575625 ([view map](#))

Agenda	
2:00 – 2:30 pm	Registration
2:30 – 3:45 pm	Introduction to ANSYS simulation in Marine Industry (AQWA & Fatigue Tools)
3:45 – 4:00 pm	Break
4:00 – 5:00 pm	Hands on Session (SpaceClaim)

[Register NOW](#)

- Register online for this **free** event.
- CAD-IT Consultants reserves the right to cancel or postpone the event due to unforeseen circumstances.

For enquiries, please call 6508-7575 or email at caditevents@cadit.com.sg

About CAD-IT Consultants

Founded in 1991, CAD-IT is a leading global ISO 9001:2008 certified Product Life Cycle Management (PLM), manufacturing and education provider. CAD-IT's mission is to provide world-class solutions and services that enable companies and their supply chains to achieve greater product innovation, quality and productivity with drastically reduced time-to-market and costs.

CAD-IT is honored to have received over 80 international and national awards since its inception for marketing and service excellence. Among its most recent accolades are the Singapore Enterprise 50 Award (2015, 2014, 2013, 2012), Singapore SME 1000 (2014, 2013, 2012, 2011), Asia Pacific Entrepreneur Award (APEA) - Outstanding Entrepreneur Award (2012, 2010, 2009), the Singapore Prestige Brand Award SPBA - Established Brand Award (2012, 2011, 2010, 2009), SPBA - Regional Brand Award 2012 and SPBA - Hall of Fame 2012.

CAD-IT Consultants' suite of PLM solutions include ANSYS (System-level, Multiphysics Simulation), Goldfire Innovator (Innovation Process Management), Moldflow (Plastics CAE), Stampack (Sheet Metal Forming), Deform (Bulk Metal Forming CAE), SpaceClaim (3D Direct Modeler), Mentor Graphics Valor DFM (Design For Manufacturing), Valor MSS (Complete Manufacturing Execution Suite) and Cortona3D (3D Technical Documentation).

Since February 2010, CAD-IT has partnered the Singapore Workforce Development Agency (WDA) to offer Advanced Certificate courses in PLM and Engineering Simulation, under the Workforce Skills Qualifications (WSQ) framework, with the charter to upgrade the technological capabilities of organizations in Singapore so as to enable them to undertake high value-add design, engineering, manufacturing and R&D activities.



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